APPENDIX E

E.1 **COPC EXPOSURE CALCULATIONS BY RECEPTOR**

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APPENDIX E.1

COPC EXPOSURE CALCULATIONS BY RECEPTOR

Table E.1-1. Exposure Calculations for Muskrat - Station 01

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 6	Reach 5																	
	Volatile Organics																				
	2-Butanone	0.0093125	0.0025			9.73	0	0	0	2.18192E-05	0.0002525	2.74E-04	0.00E+00	0.00E+00	2.24E-06	2.60E-05	*2.82E-05*	0	0	0.07953941	0.92046059
	Acetone	0.0325	0.0025			1367.05	0	0	0	7.61475E-05	0.0002525	3.29E-04	0.00E+00	0.00E+00	5.57E-08	1.85E-07	*2.40E-07*	0	0	0.23169962	0.76830038
	cis-1,2-Dichloroethene	0	0.0005			2504.11	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-08	*2.02E-08*	0	0	0	1
	Tetrachloroethene	0.006875	0.0005			6.09	0	0	0	1.61081E-05	0.0000505	6.66E-05	0.00E+00	0.00E+00	2.64E-06	8.29E-06	*1.09E-05*	0	0	0.24183424	0.75816576
	Trichloroethene	0.006875	0.0005			3.05	0	0	0	1.61081E-05	0.0000505	6.66E-05	0.00E+00	0.00E+00	5.29E-06	1.66E-05	*2.19E-05*	0	0	0.24183424	0.75816576
	Semivolatile Organics																				
	2-Methylnaphthalene	0.226875	0.0025			62.53	0	0	0	0.000531568	0.0002525	7.84E-04	0.00E+00	0.00E+00	8.50E-06	4.04E-06	*1.25E-05*	0	0	0.67796166	0.32203834
	Acenaphthylene	0.226875	0.0025			58.00	0	0	0	0.000531568	0.0002525	7.84E-04	0.00E+00	0.00E+00	9.16E-06	4.35E-06	*1.35E-05*	0	0	0.67796166	0.32203834
	Anthracene	0.141875	0.0025			435.11	0	0	0	0.000332413	0.0002525	5.85E-04	0.00E+00	0.00E+00	7.64E-07	5.80E-07	*1.34E-06*	0	0	0.56831196	0.43168804
	Benzo(a)anthracene	0.238125	0.0025			0.57	0	0	0	0.000557927	0.0002525	8.10E-04	0.00E+00	0.00E+00	9.86E-04	4.46E-04	*1.43E-03*	0	0	0.6884358	0.3115642
	Benzo(a)pyrene	0.254625	0.0025		0.04	0.57	0	0.020326689	0.020326689	0.000596586	0.0002525	2.12E-02	0.00E+00	3.59E-02	1.05E-03	4.46E-04	*3.74E-02*	0	0.95990294	0.02817306	0.011924
	Benzo(b)fluoranthene	0.281625	0.0025		0.02	0.57	0	0.010782112	0.010782112	0.000659847	0.0002525	1.17E-02	0.00E+00	1.91E-02	1.17E-03	4.46E-04	*2.07E-02*	0	0.92198465	0.05642393	0.02159142
	Benzo(g,h,i)perylene	0.28875	0.0025			58.00	0	0	0	0.000676541	0.0002525	9.29E-04	0.00E+00	0.00E+00	1.17E-05	4.35E-06	*1.60E-05*	0	0	0.72821444	0.27178556
	Benzo(k)fluoranthene	0.254875	0.0025		0.05	0.57	0	0.025520585	0.025520585	0.000597172	0.0002525	2.64E-02	0.00E+00	4.51E-02	1.06E-03	4.46E-04	*4.66E-02*	0	0.96777915	0.02264567	0.00957518
	Carbazole	0.212375	0			58.00	0	0	0	0.000497595	0	4.98E-04	0.00E+00	0.00E+00	8.58E-06	0.00E+00	*8.58E-06*	0	0	1	0
	Chrysene	0.309375	0.0025		0.04	0.57	0	0.018156321	0.018156321	0.000724866	0.0002525	1.91E-02	0.00E+00	3.21E-02	1.28E-03	4.46E-04	*3.38E-02*	0	0.94891912	0.03788426	0.01319662
	Dibenz(a,h)anthracene	0.226875	0.0025			0.57	0	0	0	0.000531568	0.0002525	7.84E-04	0.00E+00	0.00E+00	9.40E-04	4.46E-04	*1.39E-03*	0	0	0.67796166	0.32203834
	Dibenzofuran	0.226875	0.0025			58.00	0	0	0	0.000531568	0.0002525	7.84E-04	0.00E+00	0.00E+00	9.16E-06	4.35E-06	*1.35E-05*	0	0	0.67796166	0.32203834
	Fluoranthene	0.413125	0.0025		0.02	54.39	0	0.009820316	0.009820316	0.000967952	0.0002525	1.10E-02	0.00E+00	1.81E-04	1.78E-05	4.64E-06	*2.03E-04*	0	0.88945951	0.0876707	0.02286979
	Fluorene	0.209875	0.0025			54.39	0	0	0	0.000491737	0.0002525	7.44E-04	0.00E+00	0.00E+00	9.04E-06	4.64E-06	*1.37E-05*	0	0	0.66072641	0.33927359
	Indeno(1,2,3-cd)pyrene	0.27375	0.0025		0.12	0.57	0	0.057989681	0.057989681	0.000641396	0.0002525	5.89E-02	0.00E+00	1.03E-01	1.13E-03	4.46E-04	*1.04E-01*	0	0.98481926	0.01089262	0.00428812
	Naphthalene	0.226875	0.0025			60.92	0	0	0	0.000531568	0.0002525	7.84E-04	0.00E+00	0.00E+00	8.73E-06	4.15E-06	*1.29E-05*	0	0	0.67796166	0.32203834
	N-nitrosodiphenylamine	0.226875	0.0025			120.62	0	0	0	0.000531568	0.0002525	7.84E-04	0.00E+00	0.00E+00	4.41E-06	2.09E-06	*6.50E-06*	0	0	0.67796166	0.32203834
	Phenanthrene	0.285625	0.0025		0.08	58.00	0	0.038679894	0.038679894	0.000669219	0.0002525	3.96E-02	0.00E+00	6.67E-04	1.15E-05	4.35E-06	*6.83E-04*	0	0.97672521	0.01689879	0.006376
	Pyrene	0.406875	0.0025		0.02	58.00	0	0.012543313	0.012543313	0.000953308	0.0002525	1.37E-02	0.00E+00	2.16E-04	1.64E-05	4.35E-06	*2.37E-04*	0	0.91229926	0.06933593	0.01836481
	Pesticides and PCBs																				
	4,4'-DDD	0.00536875	0.00005	0.0016	2.77E-04	6.84	4.7757E-05	0.000139553	0.000187309	1.2579E-05	0.00000505	2.05E-04	6.99E-06	2.04E-05	1.84E-06	7.39E-07	*3.00E-05*	0.23302995	0.6809492	0.06137931	0.02464154
	4,4'-DDE	0.00536875	0.00005	0.0046	2.33E-04	0.83	0.0001373	0.000117294	0.000254595	1.2579E-05	0.00000505	2.72E-04	1.66E-04	1.42E-04	1.52E-05	6.11E-06	*3.29E-04*	0.50436662	0.43087433	0.04620817	0.01855089
	4,4'-DDT	0.00536875	0.00005	0.0007	8.62E-04	0.64	2.1192E-05	0.000433852	0.000455044	1.2579E-05	0.00000505	4.73E-04	3.29E-05	6.74E-04	1.96E-05	7.85E-06	*7.35E-04*	0.04483458	0.91786904	0.02661246	0.01068393
	Aldrin	0.00275	0.000025	0.0004		0.16	1.0895E-05	0	1.08945E-05	6.44325E-06	0.000002525	1.99E-05	6.77E-05	0.00E+00	4.01E-05	1.57E-05	*1.24E-04*	0.54848946	0	0.32438829	0.12712225
	alpha-Chlordane	0.00275	0.000025	0.0006	2.81E-04	1.99	1.9103E-05	0.000141609	0.000160712	6.44325E-06	0.000002525	1.70E-04	9.59E-06	7.11E-05	3.23E-06	1.27E-06	*8.51E-05*	0.11258088	0.83456521	0.03797296	0.01488096
	Aroclor 1248	0.0536875	0.0005	0.0036		0.57	0.00010745	0	0.000107453	0.00012579	0.0000505	2.84E-04	1.90E-04	0.00E+00	2.22E-04	8.93E-05	*5.02E-04*	0.37869814	0	0.44332366	0.1779782
	Aroclor 1254	0.0536875	0.0005	0.0140		0.15	0.00041787	0	0.000417872	0.00012579	0.0000505	5.94E-04	2.85E-03	0.00E+00	8.59E-04	3.45E-04	*4.06E-03*	0.70329663	0	0.21170969	0.08499368
	Aroclor 1260	0.0536875	0.0005	0.0106	3.35E-03	0.28	0.0003149	0.001687081	0.002001978	0.00012579	0.0000505	2.18E-03	1.14E-03	6.08E-03	4.53E-04	1.82E-04	*7.85E-03*	0.14456278	0.77450601	0.05774765	0.02318356
	beta-BHC	0.00275	0.000025	0.0004		3.22	1.0895E-05	0	1.08945E-05	6.44325E-06	0.000002525	1.99E-05	3.39E-06	0.00E+00	2.00E-06	7.85E-07	*6.18E-06*	0.54848946	0	0.32438829	0.12712225
	delta-BHC	0.00275	0.000025	0.0004		1.29	1.0895E-05	0	1.08945E-05	6.44325E-06	0.000002525	1.99E-05	8.47E-06	0.00E+00	5.01E-06	1.96E-06	*1.54E-05*	0.54848946	0	0.32438829	0.12712225
	Endosulfan I	0.00275	0.000025	0.0005	4.53E-04	1.21	1.6118E-05	0.000227694	0.000243812	6.44325E-06	0.000002525	2.53E-04	1.34E-05	1.89E-04	5.34E-06	2.09E-06	*2.10E-04*	0.06376254	0.90075903	0.02548952	0.00998891
	Endosulfan Sulfate	0.00536875	0.00005	0.0007		1.21	2.0894E-05	0	2.08936E-05	1.2579E-05	0.00000505	3.85E-05	1.73E-05	0.00E+00	1.04E-05	4.19E-06	*3.19E-05*	0.54237279	0	0.32653526	0.13109194
	Endrin Aldehyde	0.00536875	0.00005	0.0018	1.65E-03	0.04	5.3726E-05	0.000830159	0.000883885	1.2579E-05	0.00000505	9.02E-04	1.34E-03	2.07E-02	3.14E-04	1.26E-04	*2.25E-02*	0.05959573	0.92084941	0.01395317	0.00560169
	gamma-Chlordane	0.00275	0.000025	0.0004	2.64E-04	1.99	1.1939E-05	0.000132814	0.000144753	6.44325E-06	0.000002525	1.54E-04	5.99E-06	6.66E-05	3.23E-06	1.27E-06	*7.71E-05*	0.07766781	0.86399123	0.04191513	0.01642583
	Inorganics																				
X	Aluminum	5328.75	0.205525	23.8500	8.87E+01	41.82	0.7118748	44.62836726	45.34024206	12.48526125	0.020758025	5.78E+01	1.70E-02	1.07E+00	2.99E-01	4.96E-04	*1.38E+00*	0.01230632	0.7714996	0.21583523	0.00035885
	Antimony	0.6106238	0.0006	0.0470		0.05	0.00140286	0	0.001402856	0.001430692	0.0000606	2.89E-03	2.58E-02	0.00E+00	2.63E-02	1.11E-03	*5.32E-02*	0.48472166	0	0.49433954	0.02093881
X	Arsenic	25.05	0.0035875	0.2400	1.32	0.05	0.00716352	0.664319898	0.671483418	0.029932997	0.000362338	7.02E-01	1.31E-01	1.21E+01	5.46E-01	6.61E-03	*1.28E+01*	0.01020766	0.94662299	0.04265304	0.00051631
	Barium	15.4	0.0376	2.0000	1.50	4.33	0.059696	0.755556935	0.815252935	0.0360822	0.0037976	8.55E-01	1.38E-02	1.74E-01	8.33E-03	8.77E-04	*1.97E-01*	0.06980905	0.88355515	0.04219485	0.00444095
	Beryllium	0.1689994	4.0625E-05	0.0060		0.53	0.00017909	0	0.000179088	0.000395966	4.10313E-06	5.79E-04	3.37E-04	0.00E+00	7.46E-04	7.73E-06	*1.09E-03*	0.309222	0	0.68369334	0.00708465
	Cadmium	4.7999375	4.9625E-05	0.0625	0.51	0.78	0.0018655	0.258717803	0.260583303	0.011246254	5.01213E-06	2.72E-01	2.41E-03	3.34E-01	1.45E-02	6.46E-06	*3.50E-01*	0.00686263	0.95174725	0.04137168	1.8438E-05
	Chromium	18.8375	0.0016675	0.2000	0.35	7.24	0.0059696	0.177122946	0.183092546	0.044136263	0.000168418	2.27E-01	8.25E-04	2.45E-02	6.10E-03	2.33E-05	*3.14E-02*	0.02625186	0.77891428	0.19409323	0.00074063
	Cobalt	7.7	0.0002575	0.2700	0.68	4.02	0.00805896	0.34409959	0.35215855	0.0180411	2.60075E-05	3.70E-01	2.00E-03	8.56E-02	4.49E-03	6.47E-06	*9.21E-02*	0.0217677	0.92943205	0.04873001	7.0248E-05
	Copper	167.4	0.004375	40.5500	8.48	12.23	1.2103364	4.265915043	5.476251443	0.3922182	0.000441875	5.87E+00	9.89E-02	3.49E-01	3.21E-02	3.61E-05	*4.80E-01*	0.20622843	0.72686648	0.0668298	7.5291E-05
	Cyanide	0.31625	0.0025	0.1900		51.90	0.00567112	0	0.00567112	0.000740974	0.0002525	6.66E-03	1.09E-04	0.00E+00	1.43E-05	4.87E-06	*1.28E-04*	0.85093259	0	0.11118063	0.03788678
X	Iron	7327.5	0.65775	88.2500	606.57	2.57	2.634086	305.1963869	307.8304729	17.1683325	0.06643275	3.25E+02	1.03E+00	1.19E+02	6.69E+00	2.59E-02	*1.27E+02*	0.00810325	0.93887734	0.05281504	0.00020437
	Lead	62.1375	0.00343125	0.2125	5.67	6.43	0.0063427	2.851176278	2.857518978	0.145588163	0.000346556	3.00E+00	9.86E-04	4.43E-01	2.26E-02	5.39E-05	*4.67E-01*	0.0021118	0.94929923	0.04847358	0.00011539
	Manganese	105.7375	0.176575	79.1000	59.63	70.76	2.3609768	30.00110221	32.36207901	0.247742963	0.017834075	3.26E+01	3.34E-02	4.24E-01	3.50E-03	2.52E-04	*4.61E-01*	0.07236121	0.91949916	0.00759304	0.00054659
	Mercury	0.0884375	0.00006775	0.0080	0.00	0.03	0.00023878	0.001558742	0.001797526	0.000207209	6.84275E-06	2.01E-03	9.28E-03	6.06E-02	8.05E-03	2.66E-04	*7.82E-02*	0.11870481	0.7748853	0.10300821	0.00340168
	Nickel	8.1625	0.0013725	0.0415	0.21	32.17	0.00123869	0.106096943	0.107335635	0.019124738	0.000138623	1.27E-01	3.85E-05	3.30E-03	5.95E-04	4.31E-06	*3.94E-03*	0.00978437	0.83805518	0.15106548	0.00109497
	Selenium	0.3925	0.00075	0.5150	0.03	0.16	0.01537172	0.016969092	0.032340812	0.000919628	0.00007575	3.33E-02	9.56E-02	1.06E-01	5.72E-03	4.71E-04	*2.07E-01*	0.46111209	0.50902914	0.02758646	0.00227231
	Silver	0.221875	0.0003725	0.0635		145.71	0.00189535	0	0.001895348	0.000519853	3.76225E-05	2.45E-03	1.30E-05	0.00E+00	3.57E-06	2.58E-07	*1.68E-05*	0.77272087	0	0.21194069	0.01533844
	Thallium	0.6956238	0.00085	0.0650		0.06	0.00194012	0	0.00194012	0.001629847	0.00008585	3.66E-03	3.23E-02	0.00E+00	2.71E-02	1.43E-03	*6.08E-02*	0.53069402	0	0.44582285	0.02348313
X	Vanadium	11.975	0.00086375	0.0420	0.42	0.16	0.00125362	0.209652692	0.210906308	0.028057425	8.72388E-05	2.39E-01	8.00E-03	1.34E+00	1.79E-01	5.56E-04	*1.52E+00*	0.00524414	0.87702087	0.11737005	0.00036494
	Zinc	1010.2875	0.022325	18.3500	39.11	128.66	0.5477108	19.67862346	20.22633426	2.367103613	0.002254825	2.26E+01	4.26E-03	1.53E-01	1.84E-02	1.75E-05	*1.76E-01*	0.02423961	0.87090154	0.10475906	9.979E-05

	Mean Concentrations Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 6	Reach 5																	
	Volatile Organics																				
	2-Butanone	0.007	0.0025			9.730183192	0	0	0	1.6401E-05	0.0002525	2.69E-04	0.00E+00	0.00E+00	1.69E-06	2.60E-05	*2.76E-05*	0	0	0.06099271	0.93900729
	Acetone	0.0165	0.0025			1367.050531	0	0	0	3.866E-05	0.0002525	2.91E-04	0.00E+00	0.00E+00	2.83E-08	1.85E-07	*2.13E-07*	0	0	0.13277774	0.86722226
	cis-1,2-Dichloroethene	0.013	0.0005			2504.114914	0	0	0	3.0459E-05	0.0000505	8.10E-05	0.00E+00	0.00E+00	1.22E-08	2.02E-08	*3.23E-08*	0	0	0.37622747	0.62377253
	Tetrachloroethene	0.014125	0.0005			6.09153838	0	0	0	3.3095E-05	0.0000505	8.36E-05	0.00E+00	0.00E+00	5.43E-06	8.29E-06	*1.37E-05*	0	0	0.39589598	0.60410402
	Trichloroethene	0.00775	0.0005			3.04576919	0	0	0	1.8158E-05	0.0000505	6.87E-05	0.00E+00	0.00E+00	5.96E-06	1.66E-05	*2.25E-05*	0	0	0.26447295	0.73552705
	Semivolatile Organics																				
	2-Methylnaphthalene	0.15675	0.0025			62.53	0	0	0	0.00036727	0.0002525	6.20E-04	0.00E+00	0.00E+00	5.87E-06	4.04E-06	*9.91E-06*	0	0	0.59258768	0.40741232
	Acenaphthylene	0.15925	0.0025			58.00	0	0	0	0.00037312	0.0002525	6.26E-04	0.00E+00	0.00E+00	6.43E-06	4.35E-06	*1.08E-05*	0	0	0.59640214	0.40359786
	Anthracene	0.13675	0.0025			435.11	0	0	0	0.00032041	0.0002525	5.73E-04	0.00E+00	0.00E+00	7.36E-07	5.80E-07	*1.32E-06*	0	0	0.55926394	0.44073606
	Benzo(a)anthracene	0.292	0.0025			0.57	0	0	0	0.00068416	0.0002525	9.37E-04	0.00E+00	0.00E+00	1.21E-03	4.46E-04	*1.66E-03*	0	0	0.73042398	0.26957602
	Benzo(a)pyrene	0.305	0.0025		0.05	0.57	0	0.02434812	0.02434812	0.00071462	0.0002525	2.53E-02	0.00E+00	4.30E-02	1.26E-03	4.46E-04	*4.48E-02*	0	0.96179712	0.02822865	0.00997423
	Benzo(b)fluoranthene	0.3275	0.0025		0.02	0.57	0	0.012538453	0.012538453	0.00076733	0.0002525	1.36E-02	0.00E+00	2.22E-02	1.36E-03	4.46E-04	*2.40E-02*	0	0.9247816	0.0565951	0.0186233
	Benzo(g,h,i)perylene	0.22375	0.0025			58.00	0	0	0	0.00052425	0.0002525	7.77E-04	0.00E+00	0.00E+00	9.04E-06	4.35E-06	*1.34E-05*	0	0	0.67492601	0.32507399
	Benzo(k)fluoranthene	0.2275	0.0025		0.05	0.57	0	0.022779532	0.022779532	0.00053303	0.0002525	2.36E-02	0.00E+00	4.03E-02	9.42E-04	4.46E-04	*4.17E-02*	0	0.96666538	0.02261961	0.01071501
	Carbazole	0.205	0			58.00014758	0	0	0	0.00048032	0	4.80E-04	0.00E+00	0.00E+00	8.28E-06	0.00E+00	*8.28E-06*	0	0	1	0
	Chrysene	0.33625	0.0025		0.04	0.57	0	0.019733537	0.019733537	0.00078783	0.0002525	2.08E-02	0.00E+00	3.49E-02	1.39E-03	4.46E-04	*3.67E-02*	0	0.94992105	0.03792426	0.01215469
	Dibenz(a,h)anthracene	0.171	0.0025			0.57	0	0	0	0.00040065	0.0002525	6.53E-04	0.00E+00	0.00E+00	7.08E-04	4.46E-04	*1.15E-03*	0	0	0.6134137	0.3865863
	Dibenzofuran	0.205	0.0025			58.00	0	0	0	0.00048032	0.0002525	7.33E-04	0.00E+00	0.00E+00	8.28E-06	4.35E-06	*1.26E-05*	0	0	0.65543828	0.34456172
	Fluoranthene	0.48125	0.0025		0.02	54.39	0	0.011439702	0.011439702	0.00112757	0.0002525	1.28E-02	0.00E+00	2.10E-04	2.07E-05	4.64E-06	*2.36E-04*	0	0.89234841	0.08795545	0.01969614
	Fluorene	0.16475	0.0025			54.39	0	0	0	0.00038601	0.0002525	6.39E-04	0.00E+00	0.00E+00	7.10E-06	4.64E-06	*1.17E-05*	0	0	0.60454762	0.39545238
	Indeno(1,2,3-cd)pyrene	0.240125	0.0025		0.10	0.57	0	0.050866747	0.050866747	0.00056261	0.0002525	5.17E-02	0.00E+00	8.99E-02	9.95E-04	4.46E-04	*9.14E-02*	0	0.98422826	0.01088608	0.00488566
	Naphthalene	0.157	0.0025			60.92	0	0	0	0.00036785	0.0002525	6.20E-04	0.00E+00	0.00E+00	6.04E-06	4.15E-06	*1.02E-05*	0	0	0.59297237	0.40702763
	N-nitrosodiphenylamine	0.205	0.0025			120.62	0	0	0	0.00048032	0.0002525	7.33E-04	0.00E+00	0.00E+00	3.98E-06	2.09E-06	*6.08E-06*	0	0	0.65543828	0.34456172
	Phenanthrene	0.2525	0.0025		0.07	58.00	0	0.034194042	0.034194042	0.00059161	0.0002525	3.50E-02	0.00E+00	5.90E-04	1.02E-05	4.35E-06	*6.04E-04*	0	0.9759089	0.01688467	0.00720643
	Pyrene	0.4825	0.0025		0.03	58.00	0	0.014874713	0.014874713	0.0011305	0.0002525	1.63E-02	0.00E+00	2.56E-04	1.95E-05	4.35E-06	*2.80E-04*	0	0.91493282	0.06953608	0.01553109
	Pesticides and PCBs																				
	4,4'-DDD	0.00699375	0.00005	0.0016	3.61E-04	6.84	4.7757E-05	0.000181792	0.000229549	1.6386E-05	0.00000505	2.51E-04	6.99E-06	2.66E-05	2.40E-06	7.39E-07	*3.67E-05*	0.19027728	0.72431391	0.06528811	0.0201207
	4,4'-DDE	0.0101125	0.00005	0.0046	4.39E-04	0.83	0.0001373	0.000220934	0.000358235	2.3694E-05	0.00000505	3.87E-04	1.66E-04	2.67E-04	2.87E-05	6.11E-06	*4.68E-04*	0.35480218	0.57092085	0.06122715	0.01304982
	4,4'-DDT	0.0019875	0.00005	0.0007	3.19E-04	0.64	2.1192E-05	0.000160611	0.000181803	4.6567E-06	0.00000505	1.92E-04	3.29E-05	2.50E-04	7.24E-06	7.85E-06	*2.98E-04*	0.11065797	0.83865682	0.0243158	0.02636941
	Aldrin	0.0008075	0.000025	0.0004		0.16	1.0895E-05	0	1.08945E-05	1.892E-06	0.000002525	1.53E-05	6.77E-05	0.00E+00	1.18E-05	1.57E-05	*9.52E-05*	0.71152567	0	0.12356552	0.16490881
	alpha-Chlordane	0.0035375	0.000025	0.0006	3.62E-04	1.99	1.9103E-05	0.000182161	0.000201263	8.2884E-06	0.000002525	2.12E-04	9.59E-06	9.14E-05	4.16E-06	1.27E-06	*1.06E-04*	0.09007456	0.85893747	0.0390819	0.01190607
	Aroclor 1248	0.055375	0.0005	0.0036		0.57	0.00010745	0	0.000107453	0.00012974	0.0000505	2.88E-04	1.90E-04	0.00E+00	2.29E-04	8.93E-05	*5.09E-04*	0.37349369	0	0.45097406	0.17553225
	Aroclor 1254	0.015775	0.0005	0.0140		0.15	0.00041787	0	0.000417872	3.6961E-05	0.0000505	5.05E-04	2.85E-03	0.00E+00	2.53E-04	3.45E-04	*3.45E-03*	0.82692431	0	0.07314155	0.09993414
	Aroclor 1260	0.050375	0.0005	0.0106	3.15E-03	0.28	0.0003149	0.001582989	0.001897885	0.00011803	0.0000505	2.07E-03	1.14E-03	5.71E-03	4.25E-04	1.82E-04	*7.45E-03*	0.15238786	0.76605605	0.05711761	0.02443847
	beta-BHC	0.0008075	0.000025	0.0004		3.22	1.0895E-05	0	1.08945E-05	1.892E-06	0.000002525	1.53E-05	3.39E-06	0.00E+00	5.88E-07	7.85E-07	*4.76E-06*	0.71152567	0	0.12356552	0.16490881
	delta-BHC	0.0011125	0.000025	0.0004		1.29	1.0895E-05	0	1.08945E-05	2.6066E-06	0.000002525	1.60E-05	8.47E-06	0.00E+00	2.03E-06	1.96E-06	*1.25E-05*	0.67979826	0	0.16264633	0.15755541
	Endosulfan I	0.0008075	0.000025	0.0005	1.33E-04	1.21	1.6118E-05	6.68593E-05	8.29772E-05	1.892E-06	0.000002525	8.74E-05	1.34E-05	5.54E-05	1.57E-06	2.09E-06	*7.25E-05*	0.18442781	0.76503139	0.02164872	0.02889208
	Endosulfan Sulfate	0.001655	0.00005	0.0007		1.21	2.0894E-05	0	2.08936E-05	3.8777E-06	0.00000505	2.98E-05	1.73E-05	0.00E+00	3.21E-06	4.19E-06	*2.47E-05*	0.70062756	0	0.1300302	0.16934225
	Endrin Aldehyde	0.0019375	0.00005	0.0018	5.95E-04	0.04	5.3726E-05	0.000299592	0.000353318	4.5396E-06	0.00000505	3.63E-04	1.34E-03	7.48E-03	1.13E-04	1.26E-04	*9.07E-03*	0.14804429	0.82553146	0.01250887	0.01391539
	gamma-Chlordane	0.0027875	0.000025	0.0004	2.68E-04	1.99	1.1939E-05	0.000134625	0.000146564	6.5311E-06	0.000002525	1.56E-04	5.99E-06	6.76E-05	3.28E-06	1.27E-06	*7.81E-05*	0.07672007	0.86508628	0.04196826	0.01622539
	Inorganics																				
X	Aluminum	5177.5	0.205525	23.8500	8.62E+01	41.82	0.7118748	43.36164607	44.07352087	12.1308825	0.020758025	5.62E+01	1.70E-02	1.04E+00	2.90E-01	4.96E-04	*1.34E+00*	0.01266114	0.77121426	0.21575541	0.00036919
	Antimony	0.77875	0.0006	0.0470		0.05	0.00140286	0	0.001402856	0.00182461	0.0000606	3.29E-03	2.58E-02	0.00E+00	3.35E-02	1.11E-03	*6.05E-02*	0.42665064	0	0.55491908	0.01843028
X	Arsenic	19.1375	0.0035875	0.2400	1.01	0.05	0.00716352	0.507521838	0.514685358	0.02286797	0.000362338	5.38E-01	1.31E-01	9.26E+00	4.17E-01	6.61E-03	*9.81E+00*	0.01331718	0.94349703	0.04251219	0.0006736
	Barium	31	0.0376	2.0000	3.02	4.33	0.059696	1.520926298	1.580622298	0.072633	0.0037976	1.66E+00	1.38E-02	3.51E-01	1.68E-02	8.77E-04	*3.83E-01*	0.0360254	0.91785018	0.04383264	0.00229178
	Beryllium	0.157125	4.0625E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00036814	4.10313E-06	5.51E-04	3.37E-04	0.00E+00	6.94E-04	7.73E-06	*1.04E-03*	0.3248261	0	0.66773173	0.00744216
	Cadmium	1.141875	4.9625E-05	0.0625	0.12	0.78	0.0018655	0.061547341	0.063412841	0.00267541	5.01213E-06	6.61E-02	2.41E-03	7.93E-02	3.45E-03	6.46E-06	*8.52E-02*	0.02822527	0.93121954	0.04047936	7.5834E-05
	Chromium	37.1875	0.0016675	0.2000	0.69	7.24	0.0059696	0.349662086	0.355631686	0.08713031	0.000168418	4.43E-01	8.25E-04	4.83E-02	1.20E-02	2.33E-05	*6.12E-02*	0.01347751	0.78942893	0.19671332	0.00038023
	Cobalt	8.375	0.0002575	0.2700	0.74	4.02	0.00805896	0.374264165	0.382323125	0.01962263	2.60075E-05	4.02E-01	2.00E-03	9.31E-02	4.88E-03	6.47E-06	*1.00E-01*	0.02004857	0.9310708	0.04881593	6.47E-05
	Copper	44.9375	0.004375	40.5500	2.28	12.23	1.2103364	1.145158645	2.355495045	0.10528856	0.000441875	2.46E+00	9.89E-02	9.36E-02	8.61E-03	3.61E-05	*2.01E-01*	0.49176169	0.46527986	0.04277892	0.00017953
	Cyanide	0.3116667	0.0025	0.1900		51.90	0.00567112	0	0.00567112	0.00073024	0.0002525	6.65E-03	1.09E-04	0.00E+00	1.41E-05	4.87E-06	*1.28E-04*	0.85230591	0	0.10974617	0.03794793
X	Iron	9841.25	0.65775	88.2500	814.66	2.57	2.634086	409.8961368	412.5302228	23.0580488	0.06643275	4.36E+02	1.03E+00	1.60E+02	8.99E+00	2.59E-02	*1.70E+02*	0.00604627	0.94087389	0.05292735	0.00015249
X	Lead	152.975	0.00343125	0.2125	13.95	6.43	0.0063427	7.019250711	7.025593411	0.35842043	0.000346556	7.38E+00	9.86E-04	1.09E+00	5.57E-02	5.39E-05	*1.15E+00*	0.00085894	0.95055636	0.04853778	4.6931E-05
	Manganese	121.225	0.176575	79.1000	68.36	70.76	2.3609768	34.39540007	36.75637687	0.28403018	0.017834075	3.71E+01	3.34E-02	4.86E-01	4.01E-03	2.52E-04	*5.24E-01*	0.0637099	0.92814443	0.00766443	0.00048124
	Mercury	0.11475	0.00006775	0.0080	0.00	0.03	0.00023878	0.002022509	0.002261293	0.00026886	6.84275E-06	2.54E-03	9.28E-03	7.86E-02	1.04E-02	2.66E-04	*9.86E-02*	0.09412078	0.79720658	0.10597546	0.00269719
	Nickel	10.7375	0.0013725	0.0415	0.28	32.17	0.00123869	0.139567036	0.140805728	0.02515796	0.000138623	1.66E-01	3.85E-05	4.34E-03	7.82E-04	4.31E-06	*5.16E-03*	0.0074574	0.8402474	0.15146064	0.00083456
	Selenium	0.60375	0.00075	0.5150	0.05	0.16	0.01537172	0.026102138	0.041473858	0.00141459	0.00007575	4.30E-02	9.56E-02	1.62E-01	8.80E-03	4.71E-04	*2.67E-01*	0.35777978	0.60753235	0.03292477	0.0017631
	Silver	0.20125	0.0003725	0.0635		145.71	0.00189535	0	0.001895348	0.00047153	3.76225E-05	2.40E-03	1.30E-05	0.00E+00	3.24E-06	2.58E-07	*1.65E-05*	0.78825061	0	0.19610268	0.01564671
TRV	Thallium Toxicity Reference Value	0.4862488	0.00085	0.0650		0.06	0.00194012	0	0.00194012	0.00113928	0.00008585	3.17E-03	3.23E-02	0.00E+00	1.89E-02	1.43E-03	*5.26E-02*	0.6129435	0	0.35993384	0.02712265
X	Vanadium	18.425	0.00086375	0.0420	0.64	0.16	0.00125362	0.322576272	0.323829888	0.04316978	8.72388E-05	3.67E-01	8.00E-03	2.06E+00	2.75E-01	5.56E-04	*2.34E+00*	0.00341504	0.87874634	0.11760097	0.00023765
	Zinc	341.55	0.022325	18.3500	13.22	128.66	0.5477108	6.652793231	7.200504031	0.80025165	0.002254825	8.00E+00	4.26E-03	5.17E-02	6.22E-03	1.75E-05	*6.22E-02*	0.0684381	0.83128633	0.09999383	0.00028175

	Mean Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 6	Reach 5																	
	Volatile Organics																				
	2-Butanone	0.02733333	0.0025			9.730183192	0	0	0	6.4042E-05	0.0002525	3.17E-04	0.00E+00	0.00E+00	6.58E-06	2.60E-05	*3.25E-05*	0	0	0.20231754	0.79768246
	Acetone	0.05866667	0.0025			1367.050531	0	0	0	0.00013746	0.0002525	3.90E-04	0.00E+00	0.00E+00	1.01E-07	1.85E-07	*2.85E-07*	0	0	0.35249105	0.64750895
	cis-1,2-Dichloroethene	0.028	0.0005			2504.114914	0	0	0	6.5604E-05	0.0000505	1.16E-04	0.00E+00	0.00E+00	2.62E-08	2.02E-08	*4.64E-08*	0	0	0.56504513	0.43495487
	Tetrachloroethene	0.0225	0.0005			6.09153838	0	0	0	5.2718E-05	0.0000505	1.03E-04	0.00E+00	0.00E+00	8.65E-06	8.29E-06	*1.69E-05*	0	0	0.51074188	0.48925812
	Trichloroethene	0.0115	0.0005			3.04576919	0	0	0	2.6945E-05	0.0000505	7.74E-05	0.00E+00	0.00E+00	8.85E-06	1.66E-05	*2.54E-05*	0	0	0.34792012	0.65207988
	Semivolatile Organics																				
	2-Methylnaphthalene	0.20275	0.0025			62.53	0	0	0	0.00047504	0.0002525	7.28E-04	0.00E+00	0.00E+00	7.60E-06	4.04E-06	*1.16E-05*	0	0	0.65294159	0.34705841
	Acenaphthylene	0.2085	0.0025			58.00				0.00048852		4.89E-04	0.00E+00	0.00E+00	8.42E-06	0.00E+00	*8.42E-06*	0	0	1	0
	Anthracene	0.149	0.0025			435.11	0	0	0	0.00034911	0.0002525	6.02E-04	0.00E+00	0.00E+00	8.02E-07	5.80E-07	*1.38E-06*	0	0	0.58029079	0.41970921
	Benzo(a)anthracene	0.50375	0.0025			0.57	0	0	0	0.00118029	0.0002525	1.43E-03	0.00E+00	0.00E+00	2.09E-03	4.46E-04	*2.53E-03*	0	0	0.82376994	0.17623006
	Benzo(a)pyrene	0.45375	0.0025		0.07	0.57	0	0.036222818	0.036222818	0.00106314	0.0002525	3.75E-02	0.00E+00	6.40E-02	1.88E-03	4.46E-04	*6.64E-02*	0	0.96495231	0.02832126	0.00672644
	Benzo(b)fluoranthene	0.54875	0.0025		0.04	0.57	0	0.021009087	0.021009087	0.00128572	0.0002525	2.25E-02	0.00E+00	3.71E-02	2.27E-03	4.46E-04	*3.99E-02*	0	0.93177805	0.05702327	0.01119868
	Benzo(g,h,i)perylene	0.32875	0.0025			58.00	0	0	0	0.00077026	0.0002525	1.02E-03	0.00E+00	0.00E+00	1.33E-05	4.35E-06	*1.76E-05*	0	0	0.75311931	0.24688069
	Benzo(k)fluoranthene	0.35875	0.0025		0.07	0.57	0	0.035921569	0.035921569	0.00084055	0.0002525	3.70E-02	0.00E+00	6.35E-02	1.49E-03	4.46E-04	*6.54E-02*	0	0.97046974	0.02270863	0.00682163
	Carbazole	0.265	0			58.00014758	0	0	0	0.0006209	0	6.21E-04	0.00E+00	0.00E+00	1.07E-05	0.00E+00	*1.07E-05*	0	0	1	0
	Chrysene	0.57125	0.0025		0.07	0.57	0	0.033525006	0.033525006	0.00133844	0.0002525	3.51E-02	0.00E+00	5.93E-02	2.37E-03	4.46E-04	*6.21E-02*	0	0.95469469	0.03811484	0.00719047
	Dibenz(a,h)anthracene	0.22625	0.0025			0.57	0	0	0	0.0005301	0.0002525	7.83E-04	0.00E+00	0.00E+00	9.37E-04	4.46E-04	*1.38E-03*	0	0	0.67735907	0.32264093
	Dibenzofuran	0.265	0.0025			58.00	0	0	0	0.0006209	0.0002525	8.73E-04	0.00E+00	0.00E+00	1.07E-05	4.35E-06	*1.51E-05*	0	0	0.71089828	0.28910172
	Fluoranthene	0.93375	0.0025		0.04	54.39	0	0.022195994	0.022195994	0.00218778	0.0002525	2.46E-02	0.00E+00	4.08E-04	4.02E-05	4.64E-06	*4.53E-04*	0	0.90094782	0.08880306	0.01024912
	Fluorene	0.23625	0.0025			54.39	0	0	0	0.00055353	0.0002525	8.06E-04	0.00E+00	0.00E+00	1.02E-05	4.64E-06	*1.48E-05*	0	0	0.68673768	0.31326232
	Indeno(1,2,3-cd)pyrene	0.33625	0.0025		0.14	0.57	0	0.071229334	0.071229334	0.00078783	0.0002525	7.23E-02	0.00E+00	1.26E-01	1.39E-03	4.46E-04	*1.28E-01*	0	0.98560484	0.01090131	0.00349386
	Naphthalene	0.20325	0.0025			60.92	0	0	0	0.00047621	0.0002525	7.29E-04	0.00E+00	0.00E+00	7.82E-06	4.15E-06	*1.20E-05*	0	0	0.65349953	0.34650047
	N-nitrosodiphenylamine	0.265	0.0025			120.62	0	0	0	0.0006209	0.0002525	8.73E-04	0.00E+00	0.00E+00	5.15E-06	2.09E-06	*7.24E-06*	0	0	0.71089828	0.28910172
	Phenanthrene	0.44125	0.0025		0.12	58.00	0	0.059754935	0.059754935	0.00103385	0.0002525	6.10E-02	0.00E+00	1.03E-03	1.78E-05	4.35E-06	*1.05E-03*	0	0.97892658	0.01693688	0.00413654
	Pyrene	0.96875	0.0025		0.06	58.00	0	0.029865032	0.029865032	0.00226978	0.0002525	3.24E-02	0.00E+00	5.15E-04	3.91E-05	4.35E-06	*5.58E-04*	0	0.92212132	0.07008242	0.00779626
	Pesticides and PCBs																				
	4,4'-DDD	0.0297375	0.00005	0.0016	1.54E-03	6.84	4.7757E-05	0.000772982	0.000820739	6.9675E-05	0.00000505	8.95E-04	6.99E-06	1.13E-04	1.02E-05	7.39E-07	*1.31E-04*	0.05333191	0.86321977	0.07780879	0.00563953
	4,4'-DDE	0.0127375	0.00005	0.0046	5.53E-04	0.83	0.0001373	0.000278284	0.000415585	2.9844E-05	0.00000505	4.50E-04	1.66E-04	3.37E-04	3.61E-05	6.11E-06	*5.45E-04*	0.30478856	0.61775172	0.06624942	0.01121029
	4,4'-DDT	0.0034375	0.00005	0.0007	5.52E-04	0.64	2.1192E-05	0.000277786	0.000298978	8.0541E-06	0.00000505	3.12E-04	3.29E-05	4.32E-04	1.25E-05	7.85E-06	*4.85E-04*	0.0679054	0.89010549	0.02580749	0.01618162
	Aldrin	0.001225	0.000025	0.0004		0.16	1.0895E-05	0	1.08945E-05	2.8702E-06	0.000002525	1.63E-05	6.77E-05	0.00E+00	1.78E-05	1.57E-05	*1.01E-04*	0.66879828	0	0.17619575	0.15500597
	alpha-Chlordane	0.0045625	0.000025	0.0006	4.67E-04	1.99	1.9103E-05	0.000234942	0.000254045	1.069E-05	0.000002525	2.67E-04	9.59E-06	1.18E-04	5.36E-06	1.27E-06	*1.34E-04*	0.0714762	0.87907777	0.03999829	0.00944773
	Aroclor 1248	0.059875	0.0005	0.0036		0.57	0.00010745	0	0.000107453	0.00014029	0.0000505	2.98E-04	1.90E-04	0.00E+00	2.48E-04	8.93E-05	*5.27E-04*	0.36028979	0	0.47038345	0.16932676
	Aroclor 1254	0.020275	0.0005	0.0140		0.15	0.00041787	0	0.000417872	4.7504E-05	0.0000505	5.16E-04	2.85E-03	0.00E+00	3.25E-04	3.45E-04	*3.52E-03*	0.8100236	0	0.09208472	0.09789168
	Aroclor 1260	0.047375	0.0005	0.0106	2.96E-03	0.28	0.0003149	0.001488717	0.001803613	0.000111	0.0000505	1.97E-03	1.14E-03	5.37E-03	4.00E-04	1.82E-04	*7.08E-03*	0.16024344	0.75757317	0.05648512	0.02569827
	beta-BHC	0.001225	0.000025	0.0004		3.22	1.0895E-05	0	1.08945E-05	2.8702E-06	0.000002525	1.63E-05	3.39E-06	0.00E+00	8.92E-07	7.85E-07	*5.06E-06*	0.66879828	0	0.17619575	0.15500597
	delta-BHC	0.0016	0.000025	0.0004		1.29	1.0895E-05	0	1.08945E-05	3.7488E-06	0.000002525	1.72E-05	8.47E-06	0.00E+00	2.91E-06	1.96E-06	*1.33E-05*	0.63457112	0	0.21835567	0.14707321
	Endosulfan I	0.001225	0.000025	0.0005	2.02E-04	1.21	1.6118E-05	0.000101427	0.000117545	2.8702E-06	0.000002525	1.23E-04	1.34E-05	8.41E-05	2.38E-06	2.09E-06	*1.02E-04*	0.1311034	0.82501217	0.02334605	0.02053839
	Endosulfan Sulfate	0.0023875	0.00005	0.0007		1.21	2.0894E-05	0	2.08936E-05	5.5939E-06	0.00000505	3.15E-05	1.73E-05	0.00E+00	4.64E-06	4.19E-06	*2.61E-05*	0.66249994	0	0.17737329	0.16012677
	Endrin Aldehyde	0.0035625	0.00005	0.0018	1.09E-03	0.04	5.3726E-05	0.000550862	0.000604588	8.3469E-06	0.00000505	6.18E-04	1.34E-03	1.38E-02	2.09E-04	1.26E-04	*1.54E-02*	0.08693798	0.89138362	0.01350669	0.00817171
	gamma-Chlordane	0.00335	0.000025	0.0004	3.22E-04	1.99	1.1939E-05	0.000161791	0.000173731	7.8491E-06	0.000002525	1.84E-04	5.99E-06	8.12E-05	3.94E-06	1.27E-06	*9.24E-05*	0.06485005	0.87880131	0.04263362	0.01371502
	Inorganics																				
X	Aluminum	4760	0.205525	23.8500	7.92E+01	41.82	0.7118748	39.86507683	40.57695163	11.15268	0.020758025	5.18E+01	1.70E-02	9.53E-01	2.67E-01	4.96E-04	*1.24E+00*	0.01375593	0.77033385	0.2155091	0.00040112
	Antimony	0.92125	0.0006	0.0470		0.05	0.00140286	0	0.001402856	0.00215849	0.0000606	3.62E-03	2.58E-02	0.00E+00	3.97E-02	1.11E-03	*6.66E-02*	0.3873212	0	0.59594745	0.01673134
X	Arsenic	34.65	0.0035875	0.2400	1.83	0.05	0.00716352	0.91890956	0.92607308	0.04140432	0.000362338	9.68E-01	1.31E-01	1.68E+01	7.55E-01	6.61E-03	*1.77E+01*	0.00740156	0.94944392	0.04278015	0.00037438
	Barium	34.2	0.0376	2.0000	3.33	4.33	0.059696	1.677925142	1.737621142	0.0801306	0.0037976	1.82E+00	1.38E-02	3.87E-01	1.85E-02	8.77E-04	*4.21E-01*	0.0327721	0.92115273	0.04399035	0.00208482
	Beryllium	0.28625	4.0625E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00067068	4.10313E-06	8.54E-04	3.37E-04	0.00E+00	1.26E-03	7.73E-06	*1.61E-03*	0.20973565	0	0.78545905	0.0048053
	Cadmium	2.134125	4.9625E-05	0.0625	0.23	0.78	0.0018655	0.115029859	0.116895359	0.00500025	5.01213E-06	1.22E-01	2.41E-03	1.48E-01	6.45E-03	6.46E-06	*1.57E-01*	0.01530345	0.94363633	0.04101911	4.1116E-05
	Chromium	74.8	0.0016675	0.2000	1.40	7.24	0.0059696	0.70332031	0.70928991	0.1752564	0.000168418	8.85E-01	8.25E-04	9.72E-02	2.42E-02	2.33E-05	*1.22E-01*	0.00674749	0.79496847	0.19809368	0.00019036
	Cobalt	11.35	0.0002575	0.2700	1.01	4.02	0.00805896	0.507211734	0.515270694	0.02659305	2.60075E-05	5.42E-01	2.00E-03	1.26E-01	6.61E-03	6.47E-06	*1.35E-01*	0.01487196	0.9360054	0.04907465	4.7994E-05
	Copper	75.475	0.004375	40.5500	3.82	12.23	1.2103364	1.923356857	3.133693257	0.17683793	0.000441875	3.31E+00	9.89E-02	1.57E-01	1.45E-02	3.61E-05	*2.71E-01*	0.36555308	0.58090381	0.05340965	0.00013346
	Cyanide	0.4616667	0.0025	0.1900		51.90	0.00567112	0	0.00567112	0.00108169	0.0002525	7.01E-03	1.09E-04	0.00E+00	2.08E-05	4.87E-06	*1.35E-04*	0.80954647	0	0.15440942	0.03604411
X	Iron	11005	0.65775	88.2500	910.99	2.57	2.634086	458.3672792	461.0013652	25.784715	0.06643275	4.87E+02	1.03E+00	1.79E+02	1.01E+01	2.59E-02	*1.90E+02*	0.00541044	0.94149104	0.05296207	0.00013645
	Lead	125.225	0.00343125	0.2125	11.42	6.43	0.0063427	5.745943261	5.752285961	0.29340218	0.000346556	6.05E+00	9.86E-04	8.93E-01	4.56E-02	5.39E-05	*9.40E-01*	0.00104907	0.95036558	0.04852803	5.732E-05
	Manganese	234.175	0.176575	79.1000	132.05	70.76	2.3609768	66.44291864	68.80389544	0.54867203	0.017834075	6.94E+01	3.34E-02	9.39E-01	7.75E-03	2.52E-04	*9.80E-01*	0.03403435	0.95779925	0.00790931	0.00025708
	Mercury	0.2625	0.00006775	0.0080	0.01	0.03	0.00023878	0.004626656	0.00486544	0.00061504	6.84275E-06	5.49E-03	9.28E-03	1.80E-01	2.39E-02	2.66E-04	*2.13E-01*	0.0435156	0.84315399	0.11208341	0.00124701
	Nickel	12.275	0.0013725	0.0415	0.32	32.17	0.00123869	0.159551605	0.160790297	0.02876033	0.000138623	1.90E-01	3.85E-05	4.96E-03	8.94E-04	4.31E-06	*5.90E-03*	0.00653011	0.84112099	0.15161811	0.00073079
	Selenium	1.43875	0.00075	0.5150	0.12	0.16	0.01537172	0.06220199	0.07757371	0.00337099	0.00007575	8.10E-02	9.56E-02	3.87E-01	2.10E-02	4.71E-04	*5.04E-01*	0.18972642	0.76773196	0.04160667	0.00093495
	Silver	0.31375	0.0003725	0.0635		145.71	0.00189535	0	0.001895348	0.00073512	3.76225E-05	2.67E-03	1.30E-05	0.00E+00	5.05E-06	2.58E-07	*1.83E-05*	0.7103772	0	0.27552187	0.01410093
	Thallium	0.37875	0.00085	0.0650		0.06	0.00194012	0	0.00194012	0.00088741	0.00008585	2.91E-03	3.23E-02	0.00E+00	1.48E-02	1.43E-03	*4.84E-02*	0.66593413	0	0.30459839	0.02946748
X	Vanadium	21.65	0.00086375	0.0420	0.75	0.16	0.00125362	0.379038062	0.380291678	0.05072595	8.72388E-05	4.31E-01	8.00E-03	2.42E+00	3.24E-01	5.56E-04	*2.75E+00*	0.00290791	0.87922473	0.11766499	0.00020236
	Zinc	725.25	0.022325	18.3500	28.08	128.66	0.5477108	14.12659432	14.67430512	1.69926075	0.002254825	1.64E+01	4.26E-03	1.10E-01	1.32E-02	1.75E-05	*1.27E-01*	0.03344631	0.86264955	0.10376645	0.00013769

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 6	Reach 5																	
	Volatile Organics																				
	2-Butanone	0.05	0.0025			9.730183192	0	0	0	0.00011715	0.0002525	3.70E-04	0.00E+00	0.00E+00	1.20E-05	2.60E-05	*3.80E-05*	0	0	0.31692141	0.68307859
	Acetone	0.1415	0.0025			1367.050531	0	0	0	0.00033153	0.0002525	5.84E-04	0.00E+00	0.00E+00	2.43E-07	1.85E-07	*4.27E-07*	0	0	0.56766253	0.43233747
	cis-1,2-Dichloroethene	0	0.0005			2504.114914	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-08	*2.02E-08*	0	0	0	1
	Tetrachloroethene	0.01066667	0.0005			6.09153838	0	0	0	2.4992E-05	0.0000505	7.55E-05	0.00E+00	0.00E+00	4.10E-06	8.29E-06	*1.24E-05*	0	0	0.33105495	0.66894505
	Trichloroethene	0.01066667	0.0005			3.04576919	0	0	0	2.4992E-05	0.0000505	7.55E-05	0.00E+00	0.00E+00	8.21E-06	1.66E-05	*2.48E-05*	0	0	0.33105495	0.66894505
	Semivolatile Organics																				
	2-Methylnaphthalene	0.31	0.0025			62.53	0	0	0	0.00072633	0.0002525	9.79E-04	0.00E+00	0.00E+00	1.16E-05	4.04E-06	*1.57E-05*	0	0	0.74203896	0.25796104
	Acenaphthylene	0.28875	0.0025			58.00	0	0	0	0.00067654	0.0002525	9.29E-04	0.00E+00	0.00E+00	1.17E-05	4.35E-06	*1.60E-05*	0	0	0.72821444	0.27178556
	Anthracene	0.46875	0.0025			435.11	0	0	0	0.00109828	0.0002525	1.35E-03	0.00E+00	0.00E+00	2.52E-06	5.80E-07	*3.10E-06*	0	0	0.81307114	0.18692886
	Benzo(a)anthracene	1.6875	0.0025			0.57	0	0	0	0.00395381	0.0002525	4.21E-03	0.00E+00	0.00E+00	6.99E-03	4.46E-04	*7.44E-03*	0	0	0.93997117	0.06002883
	Benzo(a)pyrene	1.7725	0.0025		0.28	0.57	0	0.1414985	0.1414985	0.00415297	0.0002525	1.46E-01	0.00E+00	2.50E-01	7.34E-03	4.46E-04	*2.58E-01*	0	0.9698057	0.02846371	0.00173059
	Benzo(b)fluoranthene	1.93	0.0025		0.15	0.57	0	0.07389073	0.07389073	0.00452199	0.0002525	7.87E-02	0.00E+00	1.31E-01	7.99E-03	4.46E-04	*1.39E-01*	0	0.93930621	0.05748398	0.0032098
	Benzo(g,h,i)perylene	1.03375	0.0025			58.00	0	0	0	0.00242208	0.0002525	2.67E-03	0.00E+00	0.00E+00	4.18E-05	4.35E-06	*4.61E-05*	0	0	0.90559252	0.09440748
	Benzo(k)fluoranthene	1.51625	0.0025		0.30	0.57	0	0.151821823	0.151821823	0.00355257	0.0002525	1.56E-01	0.00E+00	2.68E-01	6.28E-03	4.46E-04	*2.75E-01*	0	0.97555002	0.0228275	0.00162247
	Carbazole	0.24	0			58.00014758	0	0	0	0.00056232	0	5.62E-04	0.00E+00	0.00E+00	9.70E-06	0.00E+00	*9.70E-06*	0	0	1	0
	Chrysene	2.41	0.0025		0.28	0.57	0	0.14143591	0.14143591	0.00564663	0.0002525	1.47E-01	0.00E+00	2.50E-01	9.98E-03	4.46E-04	*2.60E-01*	0	0.95996112	0.0383251	0.00171378
	Dibenz(a,h)anthracene	0.47875	0.0025			0.57	0	0	0	0.00112171	0.0002525	1.37E-03	0.00E+00	0.00E+00	1.98E-03	4.46E-04	*2.43E-03*	0	0	0.81625824	0.18374176
	Dibenzofuran	0.24375	0.0025			58.00	0	0	0	0.00057111	0.0002525	8.24E-04	0.00E+00	0.00E+00	9.85E-06	4.35E-06	*1.42E-05*	0	0	0.69342146	0.30657854
	Fluoranthene	3.31	0.0025		0.16	54.39	0	0.078681381	0.078681381	0.00775533	0.0002525	8.67E-02	0.00E+00	1.45E-03	1.43E-04	4.64E-06	*1.59E-03*	0	0.90762599	0.08946131	0.0029127
	Fluorene	0.27	0.0025			54.39	0	0	0	0.00063261	0.0002525	8.85E-04	0.00E+00	0.00E+00	1.16E-05	4.64E-06	*1.63E-05*	0	0	0.71472472	0.28527528
	Indeno(1,2,3-cd)pyrene	0.93875	0.0025		0.40	0.57	0	0.198859591	0.198859591	0.00219949	0.0002525	2.01E-01	0.00E+00	3.52E-01	3.89E-03	4.46E-04	*3.56E-01*	0	0.98781992	0.01092581	0.00125427
	Naphthalene	0.24125	0.0025			60.92	0	0	0	0.00056525	0.0002525	8.18E-04	0.00E+00	0.00E+00	9.28E-06	4.15E-06	*1.34E-05*	0	0	0.69122545	0.30877455
	N-nitrosodiphenylamine	0.31	0.0025			120.62	0	0	0	0.00072633	0.0002525	9.79E-04	0.00E+00	0.00E+00	6.02E-06	2.09E-06	*8.11E-06*	0	0	0.74203896	0.25796104
	Phenanthrene	1.9	0.0025		0.51	58.00	0	0.257301702	0.257301702	0.0044517	0.0002525	2.62E-01	0.00E+00	4.44E-03	7.68E-05	4.35E-06	*4.52E-03*	0	0.98204544	0.01699084	0.00096372
	Pyrene	3.175	0.0025		0.19	58.00	0	0.097880233	0.097880233	0.00743903	0.0002525	1.06E-01	0.00E+00	1.69E-03	1.28E-04	4.35E-06	*1.82E-03*	0	0.9271441	0.07046416	0.00239174
	Pesticides and PCBs																				
	4,4'-DDD	0.0431	0.00005	0.0016	2.23E-03	6.84	4.7757E-05	0.00112032	0.001168077	0.00010098	0.00000505	1.27E-03	6.99E-06	1.64E-04	1.48E-05	7.39E-07	*1.86E-04*	0.03748246	0.87929611	0.07925788	0.00396355
	4,4'-DDE	0.02235	0.00005	0.0046	9.70E-04	0.83	0.0001373	0.000488294	0.000625595	5.2366E-05	0.00000505	6.83E-04	1.66E-04	5.91E-04	6.33E-05	6.11E-06	*8.26E-04*	0.20102277	0.71491412	0.07666939	0.00739373
	4,4'-DDT	0.0108	0.00005	0.0007	1.73E-03	0.64	2.1192E-05	0.000872754	0.000893946	2.5304E-05	0.00000505	9.24E-04	3.29E-05	1.36E-03	3.93E-05	7.85E-06	*1.44E-03*	0.0229277	0.94423189	0.02737681	0.00546359
	Aldrin	0.00556667	0.000025	0.0004		0.16	1.0895E-05	0	1.08945E-05	1.3043E-05	0.000002525	2.65E-05	6.77E-05	0.00E+00	8.11E-05	1.57E-05	*1.65E-04*	0.41170091	0	0.49288004	0.09541905
	alpha-Chlordane	0.00556667	0.000025	0.0006	5.70E-04	1.99	1.9103E-05	0.000286651	0.000305754	1.3043E-05	0.000002525	3.21E-04	9.59E-06	1.44E-04	6.54E-06	1.27E-06	*1.61E-04*	0.05945051	0.89210048	0.04059083	0.00785818
	Aroclor 1248	0.108	0.0005	0.0036		0.57	0.00010745	0	0.000107453	0.00025304	0.0000505	4.11E-04	1.90E-04	0.00E+00	4.47E-04	8.93E-05	*7.27E-04*	0.26144437	0	0.61568363	0.122872
	Aroclor 1254	0.108	0.0005	0.0140		0.15	0.00041787	0	0.000417872	0.00025304	0.0000505	7.21E-04	2.85E-03	0.00E+00	1.73E-03	3.45E-04	*4.93E-03*	0.57923861	0	0.35076017	0.07000122
	Aroclor 1260	0.108	0.0005	0.0106	6.75E-03	0.28	0.0003149	0.003393802	0.003708699	0.00025304	0.0000505	4.01E-03	1.14E-03	1.22E-02	9.12E-04	1.82E-04	*1.45E-02*	0.07848388	0.84586167	0.06306797	0.01258648
	beta-BHC	0.00556667	0.000025	0.0004		3.22	1.0895E-05	0	1.08945E-05	1.3043E-05	0.000002525	2.65E-05	3.39E-06	0.00E+00	4.05E-06	7.85E-07	*8.23E-06*	0.41170091	0	0.49288004	0.09541905
	delta-BHC	0.00556667	0.000025	0.0004		1.29	1.0895E-05	0	1.08945E-05	1.3043E-05	0.000002525	2.65E-05	8.47E-06	0.00E+00	1.01E-05	1.96E-06	*2.06E-05*	0.41170091	0	0.49288004	0.09541905
	Endosulfan I	0.00556667	0.000025	0.0005	9.16E-04	1.21	1.6118E-05	0.000460908	0.000477026	1.3043E-05	0.000002525	4.93E-04	1.34E-05	3.82E-04	1.08E-05	2.09E-06	*4.08E-04*	0.0327205	0.93567598	0.02647759	0.00512593
	Endosulfan Sulfate	0.0108	0.00005	0.0007		1.21	2.0894E-05	0	2.08936E-05	2.5304E-05	0.00000505	5.12E-05	1.73E-05	0.00E+00	2.10E-05	4.19E-06	*4.25E-05*	0.40769591	0	0.49376366	0.09854043
	Endrin Aldehyde	0.0108	0.00005	0.0018	3.32E-03	0.04	5.3726E-05	0.001669982	0.001723708	2.5304E-05	0.00000505	1.75E-03	1.34E-03	4.17E-02	6.32E-04	1.26E-04	*4.38E-02*	0.03062969	0.95206511	0.01442617	0.00287903
	gamma-Chlordane	0.00556667	0.000025	0.0004	5.34E-04	1.99	1.1939E-05	0.000268848	0.000280787	1.3043E-05	0.000002525	2.96E-04	5.99E-06	1.35E-04	6.54E-06	1.27E-06	*1.49E-04*	0.0402869	0.90718241	0.04401048	0.0085202
	Inorganics																				
X	Aluminum	14388.5714	0.205525	23.8500	2.39E+02	41.82	0.7118748	120.5045179	121.2163927	33.7124229	0.020758025	1.55E+02	1.70E-02	2.88E+00	8.06E-01	4.96E-04	*3.71E+00*	0.00459424	0.77770151	0.21757028	0.00013397
	Antimony	2.29125	0.0006	0.0470		0.05	0.00140286	0	0.001402856	0.0053684	0.0000606	6.83E-03	2.58E-02	0.00E+00	9.87E-02	1.11E-03	*1.26E-01*	0.20534043	0	0.78578936	0.00887021
X	Arsenic	86.3285714	0.0035875	0.2400	4.55	0.05	0.00716352	2.289412684	2.296576204	0.1031566	0.000362338	2.40E+00	1.31E-01	4.18E+01	1.88E+00	6.61E-03	*4.38E+01*	0.00298468	0.95388414	0.04298021	0.00015097
X	Barium	122.714286	0.0376	2.0000	11.97	4.33	0.059696	6.020625298	6.080321298	0.28751957	0.0037976	6.37E+00	1.38E-02	1.39E+00	6.64E-02	8.77E-04	*1.47E+00*	0.00936902	0.94491006	0.0451249	0.00059602
	Beryllium	0.7871429	4.0625E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00184428	4.10313E-06	2.03E-03	3.37E-04	0.00E+00	3.47E-03	7.73E-06	*3.82E-03*	0.08833091	0	0.90964532	0.00202377
	Cadmium	7.5785714	4.9625E-05	0.0625	0.81	0.78	0.0018655	0.408486849	0.410352349	0.01775659	5.01213E-06	4.28E-01	2.41E-03	5.27E-01	2.29E-02	6.46E-06	*5.52E-01*	0.00435748	0.95415448	0.04147632	1.1707E-05
	Chromium	229.571429	0.0016675	0.2000	4.29	7.24	0.0059696	2.158586207	2.164555807	0.53788586	0.000168418	2.70E+00	8.25E-04	2.98E-01	7.43E-02	2.33E-05	*3.73E-01*	0.00220883	0.79870427	0.19902459	6.2317E-05
	Cobalt	21.0285714	0.0002575	0.2700	1.87	4.02	0.00805896	0.939730235	0.947789195	0.04926994	2.60075E-05	9.97E-01	2.00E-03	2.34E-01	1.23E-02	6.47E-06	*2.48E-01*	0.00808252	0.94247742	0.04941398	2.6084E-05
	Copper	316.114286	0.004375	40.5500	16.01	12.23	1.2103364	8.055655237	9.265991637	0.74065577	0.000441875	1.00E+01	9.89E-02	6.59E-01	6.05E-02	3.61E-05	*8.18E-01*	0.1209479	0.80499484	0.07401311	4.4156E-05
	Cyanide	1.0725	0.0025	0.1900		51.90	0.00567112	0	0.00567112	0.00251287	0.0002525	8.44E-03	1.09E-04	0.00E+00	4.84E-05	4.87E-06	*1.63E-04*	0.67221341	0	0.29785708	0.02992952
X	Iron	30044.2857	0.65775	88.2500	2487.06	2.57	2.634086	1251.36915	1254.003236	70.3937614	0.06643275	1.32E+03	1.03E+00	4.88E+02	2.74E+01	2.59E-02	*5.16E+02*	0.00198879	0.94481216	0.05314889	5.0158E-05
X	Lead	442.814286	0.00343125	0.2125	40.38	6.43	0.0063427	20.31851276	20.32485546	1.03751387	0.000346556	2.14E+01	9.86E-04	3.16E+00	1.61E-01	5.39E-05	*3.32E+00*	0.00029691	0.9511203	0.04856657	1.6222E-05
X	Manganese	672.614286	0.176575	79.1000	379.29	70.76	2.3609768	190.842132	193.2031088	1.57593527	0.017834075	1.95E+02	3.34E-02	2.70E+00	2.23E-02	2.52E-04	*2.75E+00*	0.0121202	0.9796981	0.00809015	9.1552E-05
	Mercury	0.9042857	0.00006775	0.0080	0.03	0.03	0.00023878	0.015938356	0.01617714	0.00211874	6.84275E-06	1.83E-02	9.28E-03	6.19E-01	8.23E-02	2.66E-04	*7.11E-01*	0.01304636	0.87081879	0.11576098	0.00037387
	Nickel	28.4714286	0.0013725	0.0415	0.74	32.17	0.00123869	0.370074309	0.371313001	0.06670856	0.000138623	4.38E-01	3.85E-05	1.15E-02	2.07E-03	4.31E-06	*1.36E-02*	0.00282703	0.84460963	0.15224696	0.00031637
	Selenium	1.4207143	0.00075	0.5150	0.12	0.16	0.01537172	0.061422246	0.076793966	0.00332873	0.00007575	8.02E-02	9.56E-02	3.82E-01	2.07E-02	4.71E-04	*4.99E-01*	0.19167104	0.76587822	0.04150621	0.00094453
	Silver	0.3914286	0.0003725	0.0635		145.71	0.00189535	0	0.001895348	0.00091712	3.76225E-05	2.85E-03	1.30E-05	0.00E+00	6.29E-06	2.58E-07	*1.96E-05*	0.66501392	0	0.32178561	0.01320047
	Thallium	0.7535714	0.00085	0.0650		0.06	0.00194012	0	0.00194012	0.00176562	0.00008585	3.79E-03	3.23E-02	0.00E+00	2.94E-02	1.43E-03	*6.31E-02*	0.51169064	0	0.46566713	0.02264223
X	Vanadium	51.5857143	0.00086375	0.0420	1.79	0.16	0.00125362	0.903138529	0.904392145	0.12086533	8.72388E-05	1.03E+00	8.00E-03	5.76E+00	7.71E-01	5.56E-04	*6.54E+00*	0.00122263	0.88081454	0.11787775	8.5082E-05
	Zinc	1702.85714	0.022325	18.3500	65.92	128.66	0.5477108	33.1686619	33.7163727	3.98979429	0.002254825	3.77E+01	4.26E-03	2.58E-01	3.10E-02	1.75E-05	*2.93E-01*	0.01452489	0.87960886	0.10580645	5.9796E-05

Table E.1-5. Exposure Calculations for Muskrat - Station 05

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 5	Reach 5																	
	Volatile Organics																				
	2-Butanone	0.017	0.0025			9.730183192	0	0	0	0.000039831	0.0002525	2.92E-04	0.00E+00	0.00E+00	4.09E-06	2.60E-05	*3.00E-05*	0	0	0.13625308	0.86374692
	Acetone	0.034	0.0025			1367.050531	0	0	0	0.000079662	0.0002525	3.32E-04	0.00E+00	0.00E+00	5.83E-08	1.85E-07	*2.43E-07*	0	0	0.23982876	0.76017124
	cis-1,2-Dichloroethene	0.007	0.0005			2504.114914	0	0	0	0.000016401	0.0000505	6.69E-05	0.00E+00	0.00E+00	6.55E-09	2.02E-08	*2.67E-08*	0	0	0.24515329	0.75484671
	Tetrachloroethene	0.009	0.002			6.09153838	0	0	0	0.000021087	0.000202	2.23E-04	0.00E+00	0.00E+00	3.46E-06	3.32E-05	*3.66E-05*	0	0	0.09452366	0.90547634
	Trichloroethene	0.007	0.0005			3.04576919	0	0	0	0.000016401	0.0000505	6.69E-05	0.00E+00	0.00E+00	5.38E-06	1.66E-05	*2.20E-05*	0	0	0.24515329	0.75484671
	Semivolatile Organics																				
	2-Methylnaphthalene	0.195125	0.0025			62.53	0	0	0	0.000457178	0.0002525	7.10E-04	0.00E+00	0.00E+00	7.31E-06	4.04E-06	*1.14E-05*	0	0	0.64420477	0.35579523
	Acenaphthylene	0.1715	0.0025			58.00	0	0	0	0.000401825	0.0002525	6.54E-04	0.00E+00	0.00E+00	6.93E-06	4.35E-06	*1.13E-05*	0	0	0.61410585	0.38589415
	Anthracene	0.29125	0.0025			435.11	0	0	0	0.000682399	0.0002525	9.35E-04	0.00E+00	0.00E+00	1.57E-06	5.80E-07	*2.15E-06*	0	0	0.72991728	0.27008272
	Benzo(a)anthracene	0.89875	0.0025			0.57	0	0	0	0.002105771	0.0002525	2.36E-03	0.00E+00	0.00E+00	3.72E-03	4.46E-04	*4.17E-03*	0	0	0.89293004	0.10706996
	Benzo(a)pyrene	0.88375	0.0025		0.14	0.57	0	0.070549675	0.070549675	0.002070626	0.0002525	7.29E-02	0.00E+00	1.25E-01	3.66E-03	4.46E-04	*1.29E-01*	0	0.96812081	0.02841425	0.00346494
	Benzo(b)fluoranthene	1.015	0.0025		0.08	0.57	0	0.038859632	0.038859632	0.002378145	0.0002525	4.15E-02	0.00E+00	6.87E-02	4.20E-03	4.46E-04	*7.34E-02*	0	0.93659611	0.05731813	0.00608576
	Benzo(g,h,i)perylene	0.4575	0.0025			58.00	0	0	0	0.001071923	0.0002525	1.32E-03	0.00E+00	0.00E+00	1.85E-05	4.35E-06	*2.28E-05*	0	0	0.80935087	0.19064913
	Benzo(k)fluoranthene	0.6654375	0.0025		0.13	0.57	0	0.06663013	0.06663013	0.00155912	0.0002525	6.84E-02	0.00E+00	1.18E-01	2.76E-03	4.46E-04	*1.21E-01*	0	0.97353048	0.02278025	0.00368927
	Carbazole	0.20666667	0			58.00014758	0	0	0	0.00048422	0	4.84E-04	0.00E+00	0.00E+00	8.35E-06	0.00E+00	*8.35E-06*	0	0	1	0
	Chrysene	1.05375	0.0025		0.12	0.57	0	0.061841531	0.061841531	0.002468936	0.0002525	6.46E-02	0.00E+00	1.09E-01	4.36E-03	4.46E-04	*1.14E-01*	0	0.95784834	0.03824075	0.00391091
	Dibenz(a,h)anthracene	0.209375	0.0025			0.57	0	0	0	0.000490566	0.0002525	7.43E-04	0.00E+00	0.00E+00	8.67E-04	4.46E-04	*1.31E-03*	0	0	0.66019152	0.33980848
	Dibenzofuran	0.16233333	0.0025			58.00	0	0	0	0.000380347	0.0002525	6.33E-04	0.00E+00	0.00E+00	6.56E-06	4.35E-06	*1.09E-05*	0	0	0.60100941	0.39899059
	Fluoranthene	1.8125	0.0025		0.09	54.39	0	0.043084593	0.043084593	0.004246688	0.0002525	4.76E-02	0.00E+00	7.92E-04	7.81E-05	4.64E-06	*8.75E-04*	0	0.90544704	0.08924653	0.00530643
	Fluorene	0.21375	0.0025			54.39	0	0	0	0.000500816	0.0002525	7.53E-04	0.00E+00	0.00E+00	9.21E-06	4.64E-06	*1.39E-05*	0	0	0.66481541	0.33518459
	Indeno(1,2,3-cd)pyrene	0.42975	0.0025		0.18	0.57	0	0.091035855	0.091035855	0.001006904	0.0002525	9.23E-02	0.00E+00	1.61E-01	1.78E-03	4.46E-04	*1.63E-01*	0	0.98635462	0.0109096	0.00273579
	Naphthalene	0.129375	0.0025			60.92	0	0	0	0.000303126	0.0002525	5.56E-04	0.00E+00	0.00E+00	4.98E-06	4.15E-06	*9.12E-06*	0	0	0.54555732	0.45444268
	N-nitrosodiphenylamine	0.24166667	0.0025			120.62	0	0	0	0.000566225	0.0002525	8.19E-04	0.00E+00	0.00E+00	4.69E-06	2.09E-06	*6.79E-06*	0	0	0.69159364	0.30840636
	Phenanthrene	1.0625	0.0025		0.29	58.00	0	0.14388582	0.14388582	0.002489438	0.0002525	1.47E-01	0.00E+00	2.48E-03	4.29E-05	4.35E-06	*2.53E-03*	0	0.98130001	0.01697794	0.00172205
	Pyrene	1.69	0.0025		0.10	58.00	0	0.05210003	0.05210003	0.00395967	0.0002525	5.63E-02	0.00E+00	8.98E-04	6.83E-05	4.35E-06	*9.71E-04*	0	0.92519969	0.07031638	0.00448393
	Pesticides and PCBs																				
	4,4'-DDD	0.09525	0.00005	0.0016	4.92E-03	6.84	4.7757E-05	0.002475882	0.002523639	0.000223171	0.00000505	2.75E-03	6.99E-06	3.62E-04	3.26E-05	7.39E-07	*4.03E-04*	0.01735437	0.89971235	0.08109815	0.00183512
	4,4'-DDE	0.023	0.00005	0.0046	9.99E-04	0.83	0.0001373	0.000502495	0.000639796	0.000053889	0.00000505	6.99E-04	1.66E-04	6.08E-04	6.52E-05	6.11E-06	*8.45E-04*	0.19649907	0.71914993	0.07712365	0.00722735
	4,4'-DDT	0.009875	0.00005	0.0007	1.59E-03	0.64	2.1192E-05	0.000798004	0.000819196	2.31371E-05	0.00000505	8.47E-04	3.29E-05	1.24E-03	3.60E-05	7.85E-06	*1.32E-03*	0.02500885	0.94172743	0.0273042	0.00595952
	Aldrin	0.003175	0.000025	0.0004		0.16	1.0895E-05	0	1.08945E-05	7.43903E-06	0.000002525	2.09E-05	6.77E-05	0.00E+00	4.63E-05	1.57E-05	*1.30E-04*	0.52230489	0	0.35664161	0.12105351
	alpha-Chlordane	0.009275	0.000025	0.0006	9.49E-04	1.99	1.9103E-05	0.000477609	0.000496711	2.17313E-05	0.000002525	5.21E-04	9.59E-06	2.40E-04	1.09E-05	1.27E-06	*2.61E-04*	0.03666777	0.91677208	0.04171339	0.00484675
	Aroclor 1248	0.1125	0.0005	0.0036		0.57	0.00010745	0	0.000107453	0.000263588	0.0000505	4.22E-04	1.90E-04	0.00E+00	4.66E-04	8.93E-05	*7.45E-04*	0.25490517	0	0.62529609	0.11979875
	Aroclor 1254	0.053325	0.0005	0.0140		0.15	0.00041787	0	0.000417872	0.00012494	0.0000505	5.93E-04	2.85E-03	0.00E+00	8.54E-04	3.45E-04	*4.05E-03*	0.70430341	0	0.21058124	0.08511535
	Aroclor 1260	0.08975	0.0005	0.0106	5.61E-03	0.28	0.0003149	0.002820313	0.003135209	0.000210284	0.0000505	3.40E-03	1.14E-03	1.02E-02	7.58E-04	1.82E-04	*1.22E-02*	0.09272586	0.8304824	0.06192128	0.01487047
	beta-BHC	0.003175	0.000025	0.0004		3.22	1.0895E-05	0	1.08945E-05	7.43903E-06	0.000002525	2.09E-05	3.39E-06	0.00E+00	2.31E-06	7.85E-07	*6.48E-06*	0.52230489	0	0.35664161	0.12105351
	delta-BHC	0.004575	0.000025	0.0004		1.29	1.0895E-05	0	1.08945E-05	1.07192E-05	0.000002525	2.41E-05	8.47E-06	0.00E+00	8.33E-06	1.96E-06	*1.88E-05*	0.45132918	0	0.4440672	0.10460362
	Endosulfan I	0.003175	0.000025	0.0005	5.22E-04	1.21	1.6118E-05	0.000262883	0.000279001	7.43903E-06	0.000002525	2.89E-04	1.34E-05	2.18E-04	6.17E-06	2.09E-06	*2.40E-04*	0.05577805	0.90974021	0.02574366	0.00873807
	Endosulfan Sulfate	0.006075	0.00005	0.0007		1.21	2.0894E-05	0	2.08936E-05	1.42337E-05	0.00000505	4.02E-05	1.73E-05	0.00E+00	1.18E-05	4.19E-06	*3.33E-05*	0.52003462	0	0.35427259	0.12569279
	Endrin Aldehyde	0.006075	0.00005	0.0018	1.87E-03	0.04	5.3726E-05	0.000939365	0.000993091	1.42337E-05	0.00000505	1.01E-03	1.34E-03	2.35E-02	3.56E-04	1.26E-04	*2.53E-02*	0.05306967	0.92788233	0.01405974	0.00498827
	gamma-Chlordane	0.008575	0.000025	0.0004	8.23E-04	1.99	1.1939E-05	0.000414138	0.000426077	2.00912E-05	0.000002525	4.49E-04	5.99E-06	2.08E-04	1.01E-05	1.27E-06	*2.25E-04*	0.02660882	0.92298653	0.04477719	0.00562745
	Inorganics																				
X	Aluminum	5072.5	0.0273	23.8500	8.44E+01	41.82	0.7118748	42.48226937	43.19414417	11.8848675	0.0027573	5.51E+01	1.70E-02	1.02E+00	2.84E-01	6.59E-05	*1.32E+00*	0.01292396	0.77125826	0.21576772	5.0058E-05
	Antimony	1.1525	0.0006	0.0470		0.05	0.00140286	0	0.001402856	0.002700308	0.0000606	4.16E-03	2.58E-02	0.00E+00	4.96E-02	1.11E-03	*7.66E-02*	0.33692019	0	0.64852567	0.01455414
X	Arsenic	12.3875	0.0017	0.2400	0.65	0.05	0.00716352	0.328513482	0.335677002	0.014802195	0.0001717	3.51E-01	1.31E-01	5.99E+00	2.70E-01	3.13E-03	*6.40E+00*	0.02042921	0.93686765	0.04221348	0.00048966
	Barium	32.05	0.0503	2.0000	3.13	4.33	0.059696	1.572441543	1.632137543	0.07509315	0.0050803	1.71E+00	1.38E-02	3.63E-01	1.73E-02	1.17E-03	*3.95E-01*	0.03486283	0.91831539	0.04385485	0.00296693
	Beryllium	0.26375	0.0000295	0.0060		0.53	0.00017909	0	0.000179088	0.000617966	2.9795E-06	8.00E-04	3.37E-04	0.00E+00	1.16E-03	5.61E-06	*1.51E-03*	0.22385056	0	0.77242523	0.00372422
	Cadmium	0.564125	0.0000495	0.0625	0.06	0.78	0.0018655	0.030406475	0.032271975	0.001321745	4.9995E-06	3.36E-02	2.41E-03	3.92E-02	1.70E-03	6.45E-06	*4.33E-02*	0.05552295	0.90498911	0.03933914	0.0001488
	Chromium	62.3875	0.00085	0.2000	1.17	7.24	0.0059696	0.58660957	0.59257917	0.146173913	0.00008585	7.39E-01	8.25E-04	8.11E-02	2.02E-02	1.19E-05	*1.02E-01*	0.0080797	0.79396137	0.19784273	0.0001162
	Cobalt	8.475	0.0002	0.2700	0.75	4.02	0.00805896	0.378732991	0.386791951	0.019856925	0.0000202	4.07E-01	2.00E-03	9.42E-02	4.94E-03	5.02E-06	*1.01E-01*	0.019817	0.93130512	0.04882821	4.9672E-05
	Copper	39.0125	0.0017	40.5500	1.98	12.23	1.2103364	0.994169717	2.204506117	0.091406288	0.0001717	2.30E+00	9.89E-02	8.13E-02	7.47E-03	1.40E-05	*1.88E-01*	0.52713069	0.43298489	0.03980964	7.4779E-05
	Cyanide	0.365	0.0025	0.1900		51.90	0.00567112	0	0.00567112	0.000855195	0.0002525	6.78E-03	1.09E-04	0.00E+00	1.65E-05	4.87E-06	*1.31E-04*	0.8365946	0	0.12615701	0.0372484
X	Iron	11162.5	0.376	88.2500	924.03	2.57	2.634086	464.9272834	467.5613694	26.1537375	0.037976	4.94E+02	1.03E+00	1.81E+02	1.02E+01	1.48E-02	*1.92E+02*	0.00533482	0.941619	0.05296926	7.6913E-05
X	Lead	235.575	0.00042	0.2125	21.48	6.43	0.0063427	10.80934784	10.81569054	0.551952225	0.00004242	1.14E+01	9.86E-04	1.68E+00	8.58E-02	6.59E-06	*1.77E+00*	0.00055796	0.95088381	0.0485545	3.7316E-06
X	Manganese	349.1125	0.32	79.1000	196.87	70.76	2.3609768	99.05435437	101.4153312	0.817970588	0.03232	1.02E+02	3.34E-02	1.40E+00	1.16E-02	4.57E-04	*1.45E+00*	0.02308671	0.96859876	0.00799849	0.00031604
	Mercury	0.3675	0.0001	0.0080	0.01	0.03	0.00023878	0.006477318	0.006716102	0.000861053	0.0000101	7.59E-03	9.28E-03	2.52E-01	3.35E-02	3.92E-04	*2.95E-01*	0.03147173	0.85371039	0.1134867	0.00133118
	Nickel	9.275	0.0013	0.0415	0.24	32.17	0.00123869	0.120557323	0.121796015	0.021731325	0.0001313	1.44E-01	3.85E-05	3.75E-03	6.76E-04	4.08E-06	*4.47E-03*	0.00862247	0.83919299	0.15127057	0.00091397
	Selenium	0.46625	0.00075	0.5150	0.04	0.16	0.01537172	0.020157552	0.035529272	0.001092424	0.00007575	3.67E-02	9.56E-02	1.25E-01	6.79E-03	4.71E-04	*2.28E-01*	0.41887711	0.54929033	0.02976839	0.00206418
	Silver	0.25	0.00037	0.0635		145.71	0.00189535	0	0.001895348	0.00058575	0.00003737	2.52E-03	1.30E-05	0.00E+00	4.02E-06	2.56E-07	*1.73E-05*	0.75257974	0	0.23258187	0.01483839
	Thallium	0.6225	0.00085	0.0650		0.06	0.00194012	0	0.00194012	0.001458518	0.00008585	3.48E-03	3.23E-02	0.00E+00	2.43E-02	1.43E-03	*5.79E-02*	0.55678776	0	0.41857447	0.02463777
X	Vanadium	17.2875	0.00068	0.0420	0.60	0.16	0.00125362	0.302661454	0.30391507	0.040504613	0.00006868	3.44E-01	8.00E-03	1.93E+00	2.58E-01	4.38E-04	*2.20E+00*	0.00363907	0.87858252	0.11757904	0.00019937
	Zinc	233.75	0.0108	18.3500	9.05	128.66	0.5477108	4.553038846	5.100749646	0.54767625	0.0010908	5.65E+00	4.26E-03	3.54E-02	4.26E-03	8.48E-06	*4.39E-02*	0.09694826	0.80591652	0.09694214	0.00019308

	Mean Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 4	Reach 3																	
	Volatile Organics																				
	2-Butanone	0.05066667	0.0025			9.730183192	0	0	0	0.00011871	0.0002525	3.71E-04	0.00E+00	0.00E+00	1.22E-05	2.60E-05	*3.82E-05*	0	0	0.3197957	0.6802043
	Acetone	0.105	0.0025			1367.050531	0	0	0	0.00024602	0.0002525	4.99E-04	0.00E+00	0.00E+00	1.80E-07	1.85E-07	*3.65E-07*	0	0	0.49349568	0.50650432
	cis-1,2-Dichloroethene	0.038	0.0005			2504.114914	0	0	0	8.9034E-05	0.0000505	1.40E-04	0.00E+00	0.00E+00	3.56E-08	2.02E-08	*5.57E-08*	0	0	0.63808104	0.36191896
	Tetrachloroethene	0.020875	0.0005			6.09153838	0	0	0	4.891E-05	0.0000505	9.94E-05	0.00E+00	0.00E+00	8.03E-06	8.29E-06	*1.63E-05*	0	0	0.49200346	0.50799654
	Trichloroethene	0.021875	0.0005			3.04576919	0	0	0	5.1253E-05	0.0000505	1.02E-04	0.00E+00	0.00E+00	1.68E-05	1.66E-05	*3.34E-05*	0	0	0.50370075	0.49629925
	Semivolatile Organics																				
	2-Methylnaphthalene	0.499	0.0025			62.53	0	0	0	0.00116916	0.0002525	1.42E-03	0.00E+00	0.00E+00	1.87E-05	4.04E-06	*2.27E-05*	0	0	0.82239035	0.17760965
	Acenaphthylene	0.425	0.0025			58.00	0	0	0	0.00099578	0.0002525	1.25E-03	0.00E+00	0.00E+00	1.72E-05	4.35E-06	*2.15E-05*	0	0	0.79772085	0.20227915
	Anthracene	0.4768	0.0025			435.11	0	0	0	0.00111714	0.0002525	1.37E-03	0.00E+00	0.00E+00	2.57E-06	5.80E-07	*3.15E-06*	0	0	0.81564531	0.18435469
	Benzo(a)anthracene	1.788	0.0025			0.57	0	0	0	0.00418928	0.0002525	4.44E-03	0.00E+00	0.00E+00	7.41E-03	4.46E-04	*7.85E-03*	0	0	0.94315347	0.05684653
	Benzo(a)pyrene	1.91	0.0025		0.30	0.57	0	0.152475112	0.152475112	0.00447513	0.0002525	1.57E-01	0.00E+00	2.70E-01	7.91E-03	4.46E-04	*2.78E-01*	0	0.96992654	0.02846725	0.00160621
	Benzo(b)fluoranthene	2.087	0.0025		0.16	0.57	0	0.07990153	0.07990153	0.00488984	0.0002525	8.50E-02	0.00E+00	1.41E-01	8.64E-03	4.46E-04	*1.50E-01*	0	0.93953308	0.05749786	0.00296906
	Benzo(g,h,i)perylene	0.954	0.0025			58.00	0	0	0	0.00223522	0.0002525	2.49E-03	0.00E+00	0.00E+00	3.85E-05	4.35E-06	*4.29E-05*	0	0	0.89850152	0.10149848
	Benzo(k)fluoranthene	0.983	0.0025		0.20	0.57	0	0.098427602	0.098427602	0.00230317	0.0002525	1.01E-01	0.00E+00	1.74E-01	4.07E-03	4.46E-04	*1.79E-01*	0	0.97469215	0.02280743	0.00250041
	Carbazole	0.547	0			58.00014758	0	0	0	0.00128162	0	1.28E-03	0.00E+00	0.00E+00	2.21E-05	0.00E+00	*2.21E-05*	0	0	1	0
	Chrysene	2.69	0.0025		0.31	0.57	0	0.157868298	0.157868298	0.00630267	0.0002525	1.64E-01	0.00E+00	2.79E-01	1.11E-02	4.46E-04	*2.91E-01*	0	0.96013239	0.03833194	0.00153567
	Dibenz(a,h)anthracene	0.635	0.0025			0.57	0	0	0	0.00148781	0.0002525	1.74E-03	0.00E+00	0.00E+00	2.63E-03	4.46E-04	*3.08E-03*	0	0	0.85491049	0.14508951
	Dibenzofuran	0.61375	0.0025			58.00	0	0	0	0.00143802	0.0002525	1.69E-03	0.00E+00	0.00E+00	2.48E-05	4.35E-06	*2.91E-05*	0	0	0.85063734	0.14936266
	Fluoranthene	5.016	0.0025		0.24	54.39	0	0.119234383	0.119234383	0.01175249	0.0002525	1.31E-01	0.00E+00	2.19E-03	2.16E-04	4.64E-06	*2.41E-03*	0	0.90852602	0.08955002	0.00192397
	Fluorene	0.316	0.0025			54.39	0	0	0	0.00074039	0.0002525	9.93E-04	0.00E+00	0.00E+00	1.36E-05	4.64E-06	*1.83E-05*	0	0	0.74569136	0.25430864
	Indeno(1,2,3-cd)pyrene	0.968	0.0025		0.41	0.57	0	0.205055748	0.205055748	0.00226802	0.0002525	2.08E-01	0.00E+00	3.63E-01	4.01E-03	4.46E-04	*3.67E-01*	0	0.98785736	0.01092622	0.00121642
	Naphthalene	0.5016	0.0025			60.92	0	0	0	0.00117525	0.0002525	1.43E-03	0.00E+00	0.00E+00	1.93E-05	4.15E-06	*2.34E-05*	0	0	0.82314816	0.17685184
	N-nitrosodiphenylamine	0.61375	0.0025			120.62	0	0	0	0.00143802	0.0002525	1.69E-03	0.00E+00	0.00E+00	1.19E-05	2.09E-06	*1.40E-05*	0	0	0.85063734	0.14936266
	Phenanthrene	2.666	0.0025		0.72	58.00	0	0.361034914	0.361034914	0.00624644	0.0002525	3.68E-01	0.00E+00	6.22E-03	1.08E-04	4.35E-06	*6.34E-03*	0	0.98231744	0.01699554	0.00068701
	Pyrene	3.38	0.0025		0.21	58.00	0	0.104200059	0.104200059	0.00791934	0.0002525	1.12E-01	0.00E+00	1.80E-03	1.37E-04	4.35E-06	*1.94E-03*	0	0.92727862	0.07047438	0.002247
	Pesticides and PCBs																				
	4,4'-DDD	0.07084	0.00005	0.0033	3.66E-03	6.84	9.7503E-05	0.001841381	0.001938884	0.00016598	0.00000505	2.11E-03	1.43E-05	2.69E-04	2.43E-05	7.39E-07	*3.09E-04*	0.0462121	0.87272855	0.07866589	0.00239346
	4,4'-DDE	0.07132	0.00005	0.0058	3.10E-03	0.83	0.00017212	0.001558172	0.001730296	0.0001671	0.00000505	1.90E-03	2.08E-04	1.88E-03	2.02E-04	6.11E-06	*2.30E-03*	0.0904747	0.8190352	0.08783562	0.00265447
	4,4'-DDT	0.0180375	0.00005	0.0014	2.90E-03	0.64	4.2782E-05	0.00145762	0.001500402	4.2262E-05	0.00000505	1.55E-03	6.65E-05	2.27E-03	6.57E-05	7.85E-06	*2.41E-03*	0.02764214	0.941789	0.02730599	0.00326288
	Aldrin	0.00577875	0.000025	0.0003		0.16	7.5615E-06	0	7.56149E-06	1.354E-05	0.000002525	2.36E-05	4.70E-05	0.00E+00	8.42E-05	1.57E-05	*1.47E-04*	0.32004822	0	0.57307847	0.10687331
	alpha-Chlordane	0.034063	0.000025	0.0014	3.49E-03	1.99	4.2782E-05	0.001754046	0.001796828	7.981E-05	0.000002525	1.88E-03	2.15E-05	8.80E-04	4.00E-05	1.27E-06	*9.43E-04*	0.02276659	0.9334189	0.04247083	0.00134368
	Aroclor 1248	0.139125	0.0005	0.0025		0.57	7.4123E-05	0	7.41225E-05	0.00032597	0.0000505	4.51E-04	1.31E-04	0.00E+00	5.76E-04	8.93E-05	*7.97E-04*	0.16450018	0	0.72342514	0.11207468
	Aroclor 1254	0.109525	0.0005	0.0095		0.15	0.00028356	0	0.000283556	0.00025662	0.0000505	5.91E-04	1.94E-03	0.00E+00	1.75E-03	3.45E-04	*4.04E-03*	0.48005574	0	0.43444857	0.08549569
	Aroclor 1260	0.129625	0.0005	0.0237	8.10E-03	0.28	0.0007064	0.004073349	0.004779751	0.00030371	0.0000505	5.13E-03	2.55E-03	1.47E-02	1.09E-03	1.82E-04	*1.85E-02*	0.13759404	0.7934122	0.0591573	0.00983646
	beta-BHC	0.00577875	0.000025	0.0003		3.22	8.5067E-06	0	8.50668E-06	1.354E-05	0.000002525	2.46E-05	2.64E-06	0.00E+00	4.21E-06	7.85E-07	*7.64E-06*	0.34620403	0	0.55103377	0.1027622
	delta-BHC	0.01182875	0.000025	0.0003		1.29	7.5615E-06	0	7.56149E-06	2.7715E-05	0.000002525	3.78E-05	5.88E-06	0.00E+00	2.15E-05	1.96E-06	*2.94E-05*	0.20003285	0	0.73317043	0.06679673
	Endosulfan I	0.00577875	0.000025	0.0003	9.51E-04	1.21	7.5615E-06	0.000478468	0.00048603	1.354E-05	0.000002525	5.02E-04	6.27E-06	3.97E-04	1.12E-05	2.09E-06	*4.16E-04*	0.0150599	0.9529449	0.02696626	0.00502893
	Endosulfan Sulfate	0.0113125	0.00005	0.0007		1.21	2.0695E-05	0	2.06946E-05	2.6505E-05	0.00000505	5.22E-05	1.72E-05	0.00E+00	2.20E-05	4.19E-06	*4.33E-05*	0.39607065	0	0.50727826	0.09665109
	Endrin Aldehyde	0.0113125	0.00005	0.0014	3.48E-03	0.04	4.2285E-05	0.001749229	0.001791513	2.6505E-05	0.00000505	1.82E-03	1.06E-03	4.37E-02	6.62E-04	1.26E-04	*4.55E-02*	0.02319423	0.95949694	0.01453878	0.00277005
	gamma-Chlordane	0.01757875	0.000025	0.0006	1.69E-03	1.99	1.771E-05	0.000848983	0.000866692	4.1187E-05	0.000002525	9.10E-04	8.89E-06	4.26E-04	2.07E-05	1.27E-06	*4.57E-04*	0.01945269	0.93253347	0.04524035	0.00277349
	Inorganics																				
X	Aluminum	9906.66667	0.199	58.3333	1.65E+02	41.82	1.74113333	82.96849323	84.70962656	23.21132	0.020099	1.08E+02	4.16E-02	1.98E+00	5.55E-01	4.81E-04	*2.58E+00*	0.01613041	0.76864637	0.21503701	0.0001862
	Antimony	2.2833333	0.0006	0.0458		0.05	0.00136803	0	0.001368032	0.00534985	0.0000606	6.78E-03	2.52E-02	0.00E+00	9.84E-02	1.11E-03	*1.25E-01*	0.20181986	0	0.78924009	0.00894005
X	Arsenic	73.7166667	0.00325	1.5333	3.89	0.05	0.04576693	1.954948044	2.000714976	0.08808626	0.00032825	2.09E+00	8.35E-01	3.57E+01	1.61E+00	5.99E-03	*3.81E+01*	0.02190718	0.9357716	0.0421641	0.00015712
X	Barium	77.0666667	0.032	13.9667	7.51	4.33	0.41687707	3.781055486	4.197932554	0.1805672	0.003232	4.38E+00	9.63E-02	8.73E-01	4.17E-02	7.46E-04	*1.01E+00*	0.0951398	0.8629135	0.04120909	0.00073761
	Beryllium	0.61	0.0000485	0.0040		0.53	0.00011889	0	0.000118894	0.00142923	4.8985E-06	1.55E-03	2.24E-04	0.00E+00	2.69E-03	9.23E-06	*2.93E-03*	0.07655625	0	0.92028958	0.00315417
	Cadmium	5.0333333	0.0000495	0.0465	0.54	0.78	0.00138793	0.271297894	0.272685826	0.0117931	4.9995E-06	2.84E-01	1.79E-03	3.50E-01	1.52E-02	6.45E-06	*3.67E-01*	0.00487877	0.95364929	0.04145436	1.7574E-05
	Chromium	305.5	0.0043	0.8900	5.71	7.24	0.02656472	2.87251811	2.89908283	0.7157865	0.0004343	3.62E+00	3.67E-03	3.97E-01	9.89E-02	6.00E-05	*5.00E-01*	0.00734785	0.79454408	0.19798793	0.00012013
	Cobalt	14.0666667	0.00044	0.3967	1.25	4.02	0.01183971	0.628614838	0.640454545	0.0329582	0.00004444	6.73E-01	2.94E-03	1.56E-01	8.20E-03	1.11E-05	*1.67E-01*	0.01758049	0.9334147	0.04893882	6.5988E-05
	Copper	237.65	0.0052	41.2000	12.04	12.23	1.2297376	6.056121326	7.285858926	0.55681395	0.0005252	7.84E+00	1.01E-01	4.95E-01	4.55E-02	4.29E-05	*6.41E-01*	0.15679033	0.77214948	0.07099323	6.6962E-05
	Cyanide	1.6125	0.0025	0.2467		51.90	0.00736251	0	0.007362508	0.00377809	0.0002525	1.14E-02	1.42E-04	0.00E+00	7.28E-05	4.87E-06	*2.20E-04*	0.64622542	0	0.33161204	0.02216255
X	Iron	22738.3333	1.18	277.3333	1882.27	2.57	8.27784533	947.0702392	955.3480845	53.275915	0.11918	1.01E+03	3.23E+00	3.69E+02	2.08E+01	4.65E-02	*3.93E+02*	0.0082061	0.9388616	0.05281415	0.00011815
X	Lead	365.5	0.0057	1.0133	33.33	6.43	0.03024597	16.77095038	16.80119636	0.8563665	0.0005757	1.77E+01	4.70E-03	2.61E+00	1.33E-01	8.95E-05	*2.74E+00*	0.00171286	0.94975755	0.04849699	3.2603E-05
X	Manganese	678.5	0.504	98.3000	382.61	70.76	2.9340584	192.5120969	195.4461553	1.5897255	0.050904	1.97E+02	4.15E-02	2.72E+00	2.25E-02	7.19E-04	*2.79E+00*	0.01488714	0.97678846	0.00806612	0.00025828
X	Mercury	1.3616667	0.0001	0.0065	0.05	0.03	0.00019401	0.023999859	0.024193871	0.00319039	0.0000101	2.74E-02	7.54E-03	9.33E-01	1.24E-01	3.92E-04	*1.06E+00*	0.00708219	0.87608772	0.1164614	0.00036869
	Nickel	22.1166667	0.0019	0.0983	0.57	32.17	0.00293505	0.287474516	0.290409568	0.05181935	0.0001919	3.42E-01	9.12E-05	8.94E-03	1.61E-03	5.97E-06	*1.06E-02*	0.00857148	0.83953574	0.15133236	0.00056042
	Selenium	1.2841667	0.00075	0.4300	0.11	0.16	0.01283464	0.055518835	0.068353475	0.0030088	0.00007575	7.14E-02	7.98E-02	3.45E-01	1.87E-02	4.71E-04	*4.44E-01*	0.17966118	0.7771608	0.04211766	0.00106036
	Silver	0.2716667	0.000375	0.0273		145.71	0.00081584	0	0.000815844	0.00063652	0.000037875	1.49E-03	5.60E-06	0.00E+00	4.37E-06	2.60E-07	*1.02E-05*	0.54746041	0	0.42712413	0.02541546
	Thallium	0.6833333	0.00085	0.0650		0.06	0.00194012	0	0.00194012	0.00160105	0.00008585	3.63E-03	3.23E-02	0.00E+00	2.66E-02	1.43E-03	*6.03E-02*	0.53490746	0	0.44142297	0.02366957
X	Vanadium	40.7333333	0.0015	0.1975	1.42	0.16	0.00589498	0.713140125	0.719035105	0.0954382	0.0001515	8.15E-01	3.76E-02	4.55E+00	6.09E-01	9.66E-04	*5.20E+00*	0.00723644	0.87542157	0.11715602	0.00018598
	Zinc	1067.5	0.0298	23.9333	41.33	128.66	0.71436213	20.79302232	21.50738445	2.5011525	0.0030098	2.40E+01	5.55E-03	1.62E-01	1.94E-02	2.34E-05	*1.87E-01*	0.02975078	0.8659593	0.10416457	0.00012535

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 3	Reach 3																	
	Volatile Organics																				
	2-Butanone	0.022675	0.0025			9.730183192	0	0	0	5.3128E-05	0.0002525	3.06E-04	0.00E+00	0.00E+00	5.46E-06	2.60E-05	*3.14E-05*	0	0	0.17383096	0.82616904
	Acetone	0.04616667	0.0025			1367.050531	0	0	0	0.00010817	0.0002525	3.61E-04	0.00E+00	0.00E+00	7.91E-08	1.85E-07	*2.64E-07*	0	0	0.29991114	0.70008886
	cis-1,2-Dichloroethene	0.02066667	0.0005			2504.114914	0	0	0	4.8422E-05	0.0000505	9.89E-05	0.00E+00	0.00E+00	1.93E-08	2.02E-08	*3.95E-08*	0	0	0.48949678	0.51050322
	Tetrachloroethene	0.01895833	0.0005			6.09153838	0	0	0	4.4419E-05	0.0000505	9.49E-05	0.00E+00	0.00E+00	7.29E-06	8.29E-06	*1.56E-05*	0	0	0.46796953	0.53203047
	Trichloroethene	0.014625	0.0005			3.04576919	0	0	0	3.4266E-05	0.0000505	8.48E-05	0.00E+00	0.00E+00	1.13E-05	1.66E-05	*2.78E-05*	0	0	0.4042449	0.5957551
	Semivolatile Organics																				
	2-Methylnaphthalene	0.37108333	0.0025			62.53	0	0	0	0.00086945	0.0002525	1.12E-03	0.00E+00	0.00E+00	1.39E-05	4.04E-06	*1.79E-05*	0	0	0.77494506	0.22505494
	Acenaphthylene	0.36733333	0.0025			58.00	0	0	0	0.00086066	0.0002525	1.11E-03	0.00E+00	0.00E+00	1.48E-05	4.35E-06	*1.92E-05*	0	0	0.77316869	0.22683131
	Anthracene	0.60469231	0.0025			435.11	0	0	0	0.00141679	0.0002525	1.67E-03	0.00E+00	0.00E+00	3.26E-06	5.80E-07	*3.84E-06*	0	0	0.84873846	0.15126154
	Benzo(a)anthracene	3.99269231	0.0025			0.57	0	0	0	0.00935488	0.0002525	9.61E-03	0.00E+00	0.00E+00	1.65E-02	4.46E-04	*1.70E-02*	0	0	0.97371812	0.02628188
	Benzo(a)pyrene	3.89076923	0.0025		0.62	0.57	0	0.310599724	0.310599724	0.00911607	0.0002525	3.20E-01	0.00E+00	5.49E-01	1.61E-02	4.46E-04	*5.66E-01*	0	0.97072031	0.02849055	0.00078914
	Benzo(b)fluoranthene	6.81192308	0.0025		0.52	0.57	0	0.260796873	0.260796873	0.01596034	0.0002525	2.77E-01	0.00E+00	4.61E-01	2.82E-02	4.46E-04	*4.90E-01*	0	0.94147196	0.05761652	0.00091152
	Benzo(g,h,i)perylene	1.77769231	0.0025			58.00	0	0	0	0.00416513	0.0002525	4.42E-03	0.00E+00	0.00E+00	7.18E-05	4.35E-06	*7.62E-05*	0	0	0.9428427	0.0571573
	Benzo(k)fluoranthene	5.29076923	0.0025		1.05	0.57	0	0.529763712	0.529763712	0.01239627	0.0002525	5.42E-01	0.00E+00	9.37E-01	2.19E-02	4.46E-04	*9.59E-01*	0	0.97668053	0.02285396	0.00046551
	Carbazole	0.3384	0			58.00014758	0	0	0	0.00079287	0	7.93E-04	0.00E+00	0.00E+00	1.37E-05	0.00E+00	*1.37E-05*	0	0	1	0
	Chrysene	4.99615385	0.0025		0.58	0.57	0	0.293209779	0.293209779	0.01170599	0.0002525	3.05E-01	0.00E+00	5.18E-01	2.07E-02	4.46E-04	*5.40E-01*	0	0.96081346	0.03835913	0.00082741
	Dibenz(a,h)anthracene	0.57323077	0.0025			0.57	0	0	0	0.00134308	0.0002525	1.60E-03	0.00E+00	0.00E+00	2.37E-03	4.46E-04	*2.82E-03*	0	0	0.8417503	0.1582497
	Dibenzofuran	0.40677778	0.0025			58.00	0	0	0	0.00095308	0.0002525	1.21E-03	0.00E+00	0.00E+00	1.64E-05	4.35E-06	*2.08E-05*	0	0	0.7905573	0.2094427
	Fluoranthene	9.14230769	0.0025		0.43	54.39	0	0.217320059	0.217320059	0.02142043	0.0002525	2.39E-01	0.00E+00	4.00E-03	3.94E-04	4.64E-06	*4.39E-03*	0	0.90931564	0.08962785	0.00105652
	Fluorene	0.39115385	0.0025			54.39	0	0	0	0.00091647	0.0002525	1.17E-03	0.00E+00	0.00E+00	1.69E-05	4.64E-06	*2.15E-05*	0	0	0.78399852	0.21600148
	Indeno(1,2,3-cd)pyrene	2.02807692	0.0025		0.85	0.57	0	0.429616561	0.429616561	0.00475178	0.0002525	4.35E-01	0.00E+00	7.60E-01	8.40E-03	4.46E-04	*7.68E-01*	0	0.98848586	0.01093317	0.00058097
	Naphthalene	0.36691667	0.0025			60.92	0	0	0	0.00085969	0.0002525	1.11E-03	0.00E+00	0.00E+00	1.41E-05	4.15E-06	*1.83E-05*	0	0	0.77296958	0.22703042
	N-nitrosodiphenylamine	0.55944444	0.0025			120.62	0	0	0	0.00131078	0.0002525	1.56E-03	0.00E+00	0.00E+00	1.09E-05	2.09E-06	*1.30E-05*	0	0	0.83848046	0.16151954
	Phenanthrene	4.13846154	0.0025		1.11	58.00	0	0.560438525	0.560438525	0.00969642	0.0002525	5.70E-01	0.00E+00	9.66E-03	1.67E-04	4.35E-06	*9.83E-03*	0	0.98255762	0.0169997	0.00044268
	Pyrene	7.08	0.0025		0.43	58.00	0	0.218265212	0.218265212	0.01658844	0.0002525	2.35E-01	0.00E+00	3.76E-03	2.86E-04	4.35E-06	*4.05E-03*	0	0.92836878	0.07055723	0.00107398
	Pesticides and PCBs																				
	4,4'-DDD	0.03865385	0.00005	0.0033	2.00E-03	6.84	9.7503E-05	0.001004749	0.001102253	9.0566E-05	0.00000505	1.20E-03	1.43E-05	1.47E-04	1.32E-05	7.39E-07	*1.75E-04*	0.08139745	0.83878081	0.07560591	0.00421582
	4,4'-DDE	0.03234615	0.00005	0.0058	1.40E-03	0.83	0.00017212	0.000706687	0.00087881	7.5787E-05	0.00000505	9.60E-04	2.08E-04	8.55E-04	9.17E-05	6.11E-06	*1.16E-03*	0.17936122	0.73640256	0.07897387	0.00526235
	4,4'-DDT	0.02241538	0.00005	0.0014	3.60E-03	0.64	4.2782E-05	0.001811399	0.001854182	5.2519E-05	0.00000505	1.91E-03	6.65E-05	2.82E-03	8.16E-05	7.85E-06	*2.97E-03*	0.02237851	0.94750813	0.02747181	0.00264156
	Aldrin	0.00260333	0.000025	0.0003		0.16	7.5615E-06	0	7.56149E-06	6.0996E-06	0.000002525	1.62E-05	4.70E-05	0.00E+00	3.79E-05	1.57E-05	*1.01E-04*	0.46715956	0	0.37684242	0.15599803
	alpha-Chlordane	0.03548077	0.000025	0.0014	3.63E-03	1.99	4.2782E-05	0.001827053	0.001869835	8.3131E-05	0.000002525	1.96E-03	2.15E-05	9.17E-04	4.17E-05	1.27E-06	*9.81E-04*	0.02187794	0.93431904	0.04251179	0.00129124
	Aroclor 1248	0.04566667	0.0005	0.0025		0.57	7.4123E-05	0	7.41225E-05	0.000107	0.0000505	2.32E-04	1.31E-04	0.00E+00	1.89E-04	8.93E-05	*4.09E-04*	0.32001849	0	0.46195154	0.21802997
	Aroclor 1254	0.0349875	0.0005	0.0095		0.15	0.00028356	0	0.000283556	8.1976E-05	0.0000505	4.16E-04	1.94E-03	0.00E+00	5.60E-04	3.45E-04	*2.84E-03*	0.68157304	0	0.19704198	0.12138498
	Aroclor 1260	0.05283333	0.0005	0.0237	3.30E-03	0.28	0.0007064	0.00166024	0.002366642	0.00012379	0.0000505	2.54E-03	2.55E-03	5.98E-03	4.46E-04	1.82E-04	*9.16E-03*	0.27800939	0.65339823	0.04871777	0.01987461
	beta-BHC	0.00321923	0.000025	0.0003		3.22	8.5067E-06	0	8.50668E-06	7.5427E-06	0.000002525	1.86E-05	2.64E-06	0.00E+00	2.34E-06	7.85E-07	*5.77E-06*	0.45798026	0	0.4060795	0.13594024
	delta-BHC	0.00452538	0.000025	0.0003		1.29	7.5615E-06	0	7.56149E-06	1.0603E-05	0.000002525	2.07E-05	5.88E-06	0.00E+00	8.24E-06	1.96E-06	*1.61E-05*	0.36547543	0	0.5124818	0.12204277
	Endosulfan I	0.00199167	0.000025	0.0003	3.28E-04	1.21	7.5615E-06	0.000164906	0.000172467	4.6665E-06	0.000002525	1.80E-04	6.27E-06	1.37E-04	3.87E-06	2.09E-06	*1.49E-04*	0.04208808	0.91788341	0.0259741	0.01405442
	Endosulfan Sulfate	0.00368462	0.00005	0.0007		1.21	2.0695E-05	0	2.06946E-05	8.6331E-06	0.00000505	3.44E-05	1.72E-05	0.00E+00	7.16E-06	4.19E-06	*2.85E-05*	0.6019784	0	0.25112391	0.1468977
	Endrin Aldehyde	0.005535	0.00005	0.0014	1.70E-03	0.04	4.2285E-05	0.000855866	0.00089815	1.2969E-05	0.00000505	9.16E-04	1.06E-03	2.14E-02	3.24E-04	1.26E-04	*2.29E-02*	0.04615379	0.93417898	0.01415515	0.00551208
	gamma-Chlordane	0.02606923	0.000025	0.0006	2.50E-03	1.99	1.771E-05	0.001259038	0.001276748	6.108E-05	0.000002525	1.34E-03	8.89E-06	6.32E-04	3.07E-05	1.27E-06	*6.73E-04*	0.01321279	0.93933315	0.04557022	0.00188383
	Inorganics																				
X	Aluminum	10170.7692	0.129	58.3333	1.69E+02	41.82	1.74113333	85.18035646	86.92148979	23.8301123	0.013029	1.11E+02	4.16E-02	2.04E+00	5.70E-01	3.12E-04	*2.65E+00*	0.01571922	0.76902126	0.21514189	0.00011763
	Antimony	1.9965385	0.0013	0.0458		0.05	0.00136803	0	0.001368032	0.00467789	0.0001313	6.18E-03	2.52E-02	0.00E+00	8.60E-02	2.41E-03	*1.14E-01*	0.22146401	0	0.75728049	0.02125551
X	Arsenic	61.5269231	0.00695	1.5333	3.24	0.05	0.04576693	1.631679013	1.677445945	0.07352037	0.00070195	1.75E+00	8.35E-01	2.98E+01	1.34E+00	1.28E-02	*3.20E+01*	0.02612763	0.93150002	0.04197163	0.00040073
	Barium	67.1115385	0.0339	13.9667	6.54	4.33	0.41687707	3.292635606	3.709512674	0.15724233	0.0034239	3.87E+00	9.63E-02	7.60E-01	3.63E-02	7.91E-04	*8.94E-01*	0.10771519	0.8507709	0.04062922	0.00088469
	Beryllium	0.5634608	0.00005	0.0040		0.53	0.00011889	0	0.000118894	0.00132019	0.00000505	1.44E-03	2.24E-04	0.00E+00	2.49E-03	9.52E-06	*2.72E-03*	0.08232871	0	0.91417438	0.00349691
	Cadmium	3.3711538	0.0000495	0.0465	0.36	0.78	0.00138793	0.181706013	0.183093945	0.00789861	4.9995E-06	1.91E-01	1.79E-03	2.34E-01	1.02E-02	6.45E-06	*2.46E-01*	0.00726675	0.95135255	0.04135453	2.6176E-05
	Chromium	183.738462	0.0031	0.8900	3.43	7.24	0.02656472	1.727633578	1.754198298	0.43049922	0.0003131	2.19E+00	3.67E-03	2.39E-01	5.95E-02	4.33E-05	*3.02E-01*	0.01215771	0.79067514	0.19702386	0.00014329
	Cobalt	14.3923077	0.00048	0.3967	1.28	4.02	0.01183971	0.643167167	0.655006875	0.03372118	0.00004848	6.89E-01	2.94E-03	1.60E-01	8.39E-03	1.21E-05	*1.71E-01*	0.01718948	0.93378206	0.04895808	7.0386E-05
	Copper	174.8	0.0036	41.2000	8.85	12.23	1.2297376	4.454491933	5.684229533	0.4095564	0.0003636	6.09E+00	1.01E-01	3.64E-01	3.35E-02	2.97E-05	*4.98E-01*	0.20178986	0.73094562	0.06720485	5.9664E-05
	Cyanide	0.7215	0.0025	0.2467		51.90	0.00736251	0	0.007362508	0.00169047	0.0002525	9.31E-03	1.42E-04	0.00E+00	3.26E-05	4.87E-06	*1.79E-04*	0.79120109	0	0.18166436	0.02713454
X	Iron	20693.4615	1.92	277.3333	1713.00	2.57	8.27784533	861.8996512	870.1774965	48.4847804	0.19392	9.19E+02	3.23E+00	3.36E+02	1.89E+01	7.56E-02	*3.58E+02*	0.00900886	0.93801365	0.05276645	0.00021104
X	Lead	267.223077	0.0043	1.0133	24.37	6.43	0.03024597	12.26151837	12.29176434	0.62610367	0.0004343	1.29E+01	4.70E-03	1.91E+00	9.73E-02	6.75E-05	*2.01E+00*	0.00234133	0.94915865	0.0484664	3.3619E-05
X	Manganese	336.580769	0.585	98.3000	189.80	70.76	2.9340584	95.49870253	98.43276093	0.78860874	0.059085	9.93E+01	4.15E-02	1.35E+00	1.11E-02	8.35E-04	*1.40E+00*	0.02955323	0.96190839	0.00794324	0.00059513
X	Mercury	1.4396146	0.00022	0.0065	0.05	0.03	0.00019401	0.025373718	0.02556773	0.00337302	0.00002222	2.90E-02	7.54E-03	9.86E-01	1.31E-01	8.63E-04	*1.13E+00*	0.00669862	0.87607454	0.11645965	0.00076719
	Nickel	22.5884615	0.0017	0.0983	0.58	32.17	0.00293505	0.293606949	0.296542001	0.05292477	0.0001717	3.50E-01	9.12E-05	9.13E-03	1.65E-03	5.34E-06	*1.09E-02*	0.00839453	0.83974441	0.15136997	0.00049108
	Selenium	1.1884615	0.00075	0.4300	0.10	0.16	0.01283464	0.051381178	0.064215818	0.00278457	0.00007575	6.71E-02	7.98E-02	3.19E-01	1.73E-02	4.71E-04	*4.17E-01*	0.19134436	0.76601282	0.0415135	0.00112931
	Silver	0.4580769	0.00037	0.0273		145.71	0.00081584	0	0.000815844	0.00107327	0.00003737	1.93E-03	5.60E-06	0.00E+00	7.37E-06	2.56E-07	*1.32E-05*	0.42348778	0	0.55711424	0.01939799
	Thallium	1.5692308	0.00085	0.0650		0.06	0.00194012	0	0.00194012	0.00367671	0.00008585	5.70E-03	3.23E-02	0.00E+00	6.11E-02	1.43E-03	*9.48E-02*	0.3402121	0	0.64473356	0.01505433
X	Vanadium	40.3384615	0.0019	0.1975	1.40	0.16	0.00589498	0.706226894	0.712121874	0.09451302	0.0001919	8.07E-01	3.76E-02	4.50E+00	6.03E-01	1.22E-03	*5.15E+00*	0.00730638	0.87531414	0.11714164	0.00023785
	Zinc	974.423077	0.0189	23.9333	37.72	128.66	0.71436213	18.98004758	19.69440971	2.28307327	0.0019089	2.20E+01	5.55E-03	1.48E-01	1.77E-02	1.48E-05	*1.71E-01*	0.03250145	0.86353834	0.10387336	8.685E-05

Table E.1-8. Exposure Calculations for Muskrat - Station 08

	Mean Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Volatile Organics																				
	2-Butanone	0.00666667	0.0025			9.730183192	0	0	0	1.562E-05	0.0002525	2.68E-04	0.00E+00	0.00E+00	1.61E-06	2.60E-05	*2.76E-05*	0	0	0.0582575	0.9417425
	Acetone	0.00916667	0.0025			1367.050531	0	0	0	2.1478E-05	0.0002525	2.74E-04	0.00E+00	0.00E+00	1.57E-08	1.85E-07	*2.00E-07*	0	0	0.07839147	0.92160853
	cis-1,2-Dichloroethene	0	0.0025			2504.114914	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07	*1.01E-07*	0	0	0	1
	Tetrachloroethene	0.00666667	0.0005			6.09153838	0	0	0	1.562E-05	0.0000505	6.61E-05	0.00E+00	0.00E+00	2.56E-06	8.29E-06	*1.09E-05*	0	0	0.23623715	0.76376285
	Trichloroethene	0.00666667	0.0015			3.04576919	0	0	0	1.562E-05	0.0001515	1.67E-04	0.00E+00	0.00E+00	5.13E-06	4.97E-05	*5.49E-05*	0	0	0.09346577	0.90653423
	Semivolatile Organics																				
	2-Methylnaphthalene	0.21833333	0.0025			62.53	0	0	0	0.00051155	0.0002525	7.64E-04	0.00E+00	0.00E+00	8.18E-06	4.04E-06	*1.22E-05*	0	0	0.66952641	0.33047359
	Acenaphthylene	0.13366667	0.0025			58.00	0	0	0	0.00031318	0.0002525	5.66E-04	0.00E+00	0.00E+00	5.40E-06	4.35E-06	*9.75E-06*	0	0	0.55363535	0.44636465
	Anthracene	0.09866667	0.0025			435.11	0	0	0	0.00023118	0.0002525	4.84E-04	0.00E+00	0.00E+00	5.31E-07	5.80E-07	*1.11E-06*	0	0	0.47795632	0.52204368
	Benzo(a)anthracene	0.48333333	0.0025			0.57	0	0	0	0.00113245	0.0002525	1.38E-03	0.00E+00	0.00E+00	2.00E-03	4.46E-04	*2.45E-03*	0	0	0.81768295	0.18231705
	Benzo(a)pyrene	0.62666667	0.0025		0.10	0.57	0	0.050026738	0.050026738	0.00146828	0.0002525	5.17E-02	0.00E+00	8.84E-02	2.60E-03	4.46E-04	*9.15E-02*	0	0.96674662	0.02837392	0.00487946
	Benzo(b)fluoranthene	1.28333333	0.0025		0.10	0.57	0	0.049132869	0.049132869	0.00300685	0.0002525	5.24E-02	0.00E+00	8.69E-02	5.32E-03	4.46E-04	*9.26E-02*	0	0.93778943	0.05739116	0.00481942
	Benzo(g,h,i)perylene	0.41333333	0.0025			58.00	0	0	0	0.00096844	0.0002525	1.22E-03	0.00E+00	0.00E+00	1.67E-05	4.35E-06	*2.11E-05*	0	0	0.79319213	0.20680787
	Benzo(k)fluoranthene	1.35333333	0.0025		0.27	0.57	0	0.135509008	0.135509008	0.00317086	0.0002525	1.39E-01	0.00E+00	2.40E-01	5.61E-03	4.46E-04	*2.46E-01*	0	0.97535952	0.02282305	0.00181743
	Carbazole	0.12766667	0			58.00014758	0	0	0	0.00029912	0	2.99E-04	0.00E+00	0.00E+00	5.16E-06	0.00E+00	*5.16E-06*	0	0	1	0
	Chrysene	0.67666667	0.0025		0.08	0.57	0	0.039711604	0.039711604	0.00158543	0.0002525	4.15E-02	0.00E+00	7.02E-02	2.80E-03	4.46E-04	*7.35E-02*	0	0.95576533	0.03815759	0.00607708
	Dibenz(a,h)anthracene	0.09333333	0.0025			0.57	0	0	0	0.00021868	0.0002525	4.71E-04	0.00E+00	0.00E+00	3.87E-04	4.46E-04	*8.33E-04*	0	0	0.46411138	0.53588862
	Dibenzofuran	0.15533333	0.0025			58.00	0	0	0	0.00036395	0.0002525	6.16E-04	0.00E+00	0.00E+00	6.27E-06	4.35E-06	*1.06E-05*	0	0	0.59039397	0.40960603
	Fluoranthene	0.89666667	0.0025		0.04	54.39	0	0.021314493	0.021314493	0.00210089	0.0002525	2.37E-02	0.00E+00	3.92E-04	3.86E-05	4.64E-06	*4.35E-04*	0	0.9005661	0.08876544	0.01066847
	Fluorene	0.07266667	0.0025			54.39	0	0	0	0.00017026	0.0002525	4.23E-04	0.00E+00	0.00E+00	3.13E-06	4.64E-06	*7.77E-06*	0	0	0.40273159	0.59726841
	Indeno(1,2,3-cd)pyrene	0.4	0.0025		0.17	0.57	0	0.08473378	0.08473378	0.0009372	0.0002525	8.59E-02	0.00E+00	1.50E-01	1.66E-03	4.46E-04	*1.52E-01*	0	0.98615396	0.01090738	0.00293866
	Naphthalene	0.09833333	0.0025			60.92	0	0	0	0.00023039	0.0002525	4.83E-04	0.00E+00	0.00E+00	3.78E-06	4.15E-06	*7.93E-06*	0	0	0.477112	0.522888
	N-nitrosodiphenylamine	0.16766667	0.0025			120.62	0	0	0	0.00039284	0.0002525	6.45E-04	0.00E+00	0.00E+00	3.26E-06	2.09E-06	*5.35E-06*	0	0	0.6087352	0.3912648
	Phenanthrene	0.47666667	0.0025		0.13	58.00	0	0.064551129	0.064551129	0.00111683	0.0002525	6.59E-02	0.00E+00	1.11E-03	1.93E-05	4.35E-06	*1.14E-03*	0	0.97922754	0.01694208	0.00383037
	Pyrene	1.15	0.0025		0.07	58.00	0	0.035452683	0.035452683	0.00269445	0.0002525	3.84E-02	0.00E+00	6.11E-04	4.65E-05	4.35E-06	*6.62E-04*	0	0.92325578	0.07016864	0.00657558
	Pesticides and PCBs																				
	4,4'-DDD	0.0066	0.00005	0.0033	3.41E-04	6.84	9.8498E-05	0.000171557	0.000270056	1.5464E-05	0.00000505	2.91E-04	1.44E-05	2.51E-05	2.26E-06	7.39E-07	*4.25E-05*	0.33898408	0.59041729	0.05321896	0.01737967
	4,4'-DDE	0.00393333	0.00005	0.0080	1.71E-04	0.83	0.00023878	8.5934E-05	0.000324718	9.2158E-06	0.00000505	3.39E-04	2.89E-04	1.04E-04	1.11E-05	6.11E-06	*4.10E-04*	0.70441129	0.25350469	0.02718655	0.01489747
	4,4'-DDT	0.001935	0.00005	0.0011	3.11E-04	0.64	3.134E-05	0.000156368	0.000187709	4.5337E-06	0.00000505	1.97E-04	4.87E-05	2.43E-04	7.05E-06	7.85E-06	*3.07E-04*	0.15885246	0.79257142	0.02297961	0.02559651
	Aldrin	0.00115	0.000025	0.0003		0.16	8.059E-06	0	8.05896E-06	2.6945E-06	0.000002525	1.33E-05	5.01E-05	0.00E+00	1.68E-05	1.57E-05	*8.26E-05*	0.60692206	0	0.20291963	0.19015831
	alpha-Chlordane	0.00126667	0.000025	0.0006	1.30E-04	1.99	1.8506E-05	6.5226E-05	8.37317E-05	2.9678E-06	0.000002525	8.92E-05	9.29E-06	3.27E-05	1.49E-06	1.27E-06	*4.48E-05*	0.20740666	0.73103179	0.03326216	0.02829939
	Aroclor 1248	0.0225	0.0005	0.0025		0.57	0.00007462	0	0.00007462	5.2718E-05	0.0000505	1.78E-04	1.32E-04	0.00E+00	9.32E-05	8.93E-05	*3.14E-04*	0.41959654	0	0.29643635	0.2839671
	Aroclor 1254	0.0225	0.0005	0.0220		0.15	0.00065666	0	0.000656656	5.2718E-05	0.0000505	7.60E-04	4.49E-03	0.00E+00	3.60E-04	3.45E-04	*5.19E-03*	0.86416489	0	0.06937668	0.06645843
	Aroclor 1260	0.0225	0.0005	0.0410	1.41E-03	0.28	0.00122377	0.000707042	0.00193081	5.2718E-05	0.0000505	2.03E-03	4.41E-03	2.55E-03	1.90E-04	1.82E-04	*7.33E-03*	0.60164767	0.34760696	0.02591779	0.02482759
	beta-BHC	0.00115	0.000025	0.0003		3.22	7.462E-06	0	0.000007462	2.6945E-06	0.000002525	1.27E-05	2.32E-06	0.00E+00	8.38E-07	7.85E-07	*3.94E-06*	0.58841852	0	0.21247176	0.19910972
	delta-BHC	0.00087333	0.000025	0.0003		1.29	7.462E-06	0	0.000007462	2.0462E-06	0.000002525	1.20E-05	5.80E-06	0.00E+00	1.59E-06	1.96E-06	*9.35E-06*	0.62011665	0	0.17004758	0.20983577
	Endosulfan I	0.00115	0.000025	0.0003	1.89E-04	1.21	7.462E-06	9.52176E-05	0.00010268	2.6945E-06	0.000002525	1.08E-04	6.19E-06	7.89E-05	2.23E-06	2.09E-06	*8.95E-05*	0.06915725	0.88246929	0.02497196	0.02340151
	Endosulfan Sulfate	0.00225	0.00005	0.0007		1.21	2.1341E-05	0	2.13413E-05	5.2718E-06	0.00000505	3.17E-05	1.77E-05	0.00E+00	4.37E-06	4.19E-06	*2.62E-05*	0.67401297	0	0.16649523	0.1594918
	Endrin Aldehyde	0.00126	0.00005	0.0030	3.87E-04	0.04	8.8052E-05	0.000194831	0.000282883	2.9522E-06	0.00000505	2.91E-04	2.20E-03	4.87E-03	7.37E-05	1.26E-04	*7.27E-03*	0.30270245	0.66978778	0.01014896	0.01736081
	gamma-Chlordane	0.00078333	0.000025	0.0003	7.52E-05	1.99	7.462E-06	3.78318E-05	4.52938E-05	1.8353E-06	0.000002525	4.97E-05	3.74E-06	1.90E-05	9.21E-07	1.27E-06	*2.49E-05*	0.15027939	0.76190626	0.03696265	0.05085171
	Inorganics																				
X	Aluminum	5456.66667	0.14033333	52.7000	9.08E+01	41.82	1.5729896	45.6996714	47.272661	12.78497	0.014173667	6.01E+01	3.76E-02	1.09E+00	3.06E-01	3.39E-04	*1.44E+00*	0.02618516	0.76075077	0.21282813	0.00023595
	Antimony	1.03	0.0006	0.0550		0.05	0.00164164	0	0.00164164	0.00241329	0.0000606	4.12E-03	3.02E-02	0.00E+00	4.44E-02	1.11E-03	*7.57E-02*	0.39888909	0	0.5863862	0.01472471
X	Arsenic	18.7333333	0.01268333	2.7000	0.99	0.05	0.0805896	0.496803436	0.577393036	0.02238502	0.001281017	6.01E-01	1.47E+00	9.06E+00	4.08E-01	2.34E-02	*1.10E+01*	0.13407933	0.82654677	0.03724263	0.00213127
	Barium	18.9	0.03208333	9.9750	1.84	4.33	0.2977338	0.92727442	1.22500822	0.0442827	0.003240417	1.27E+00	6.88E-02	2.14E-01	1.02E-02	7.48E-04	*2.94E-01*	0.23396972	0.72868494	0.03479891	0.00254643
	Beryllium	0.2216667	4.5667E-05	0.0065		0.53	0.00019401	0	0.000194012	0.00051937	4.61234E-06	7.18E-04	3.66E-04	0.00E+00	9.79E-04	8.69E-06	*1.35E-03*	0.27021568	0	0.72336036	0.00642396
	Cadmium	0.6166667	0.00056	0.1105	0.07	0.78	0.0032982	0.033238486	0.03653669	0.00144485	0.00005656	3.80E-02	4.25E-03	4.29E-02	1.86E-03	7.29E-05	*4.90E-02*	0.08670791	0.87382088	0.03798429	0.00148693
	Chromium	54.4	0.0062	2.2000	1.02	7.24	0.0656656	0.51150568	0.57717128	0.1274592	0.0006262	7.05E-01	9.07E-03	7.07E-02	1.76E-02	8.65E-05	*9.74E-02*	0.0931088	0.72527591	0.18072739	0.0008879
	Cobalt	7.3	0.000985	0.5400	0.65	4.02	0.01611792	0.326224287	0.342342207	0.0171039	0.000099485	3.60E-01	4.01E-03	8.11E-02	4.25E-03	2.47E-05	*8.94E-02*	0.04482858	0.90732384	0.04757088	0.0002767
	Copper	73.6666667	0.00718333	62.2500	3.73	12.23	1.858038	1.877274442	3.735312442	0.172601	0.000725517	3.91E+00	1.52E-01	1.53E-01	1.41E-02	5.93E-05	*3.20E-01*	0.47536701	0.48028853	0.04415885	0.00018562
	Cyanide	0.3033333	0.0025	0.2250		51.90	0.0067158	0	0.0067158	0.00071071	0.0002525	7.68E-03	1.29E-04	0.00E+00	1.37E-05	4.87E-06	*1.48E-04*	0.87456587	0	0.09255229	0.03288184
X	Iron	13236.6667	1.20933333	342.5000	1095.73	2.57	10.22294	551.3180268	561.5409668	31.01351	0.122142667	5.93E+02	3.99E+00	2.15E+02	1.21E+01	4.76E-02	*2.31E+02*	0.01724877	0.93021727	0.05232788	0.00020609
	Lead	43.1666667	0.00330833	0.9700	3.94	6.43	0.02895256	1.98070048	2.00965304	0.1011395	0.000334142	2.11E+00	4.50E-03	3.08E-01	1.57E-02	5.19E-05	*3.28E-01*	0.01371427	0.93821962	0.04790783	0.00015828
	Manganese	160.833333	0.5925	120.0000	90.70	70.76	3.58176	45.6335479	49.2153079	0.3768325	0.0598425	4.97E+01	5.06E-02	6.45E-01	5.33E-03	8.46E-04	*7.02E-01*	0.0721373	0.91906799	0.00758948	0.00120524
	Mercury	0.4566667	0.00011583	0.0140	0.02	0.03	0.00041787	0.008048913	0.008466785	0.00106997	1.16992E-05	9.55E-03	1.62E-02	3.13E-01	4.16E-02	4.55E-04	*3.71E-01*	0.04376332	0.84295455	0.11205689	0.00122524
	Nickel	12.2	0.00163333	0.1025	0.32	32.17	0.00305942	0.158576748	0.161636168	0.0285846	0.000164967	1.90E-01	9.51E-05	4.93E-03	8.89E-04	5.13E-06	*5.92E-03*	0.01606959	0.83292348	0.15014045	0.00086649
	Selenium	0.39	0.00075	0.3950	0.03	0.16	0.01178996	0.016861008	0.028650968	0.00091377	0.00007575	2.96E-02	7.33E-02	1.05E-01	5.68E-03	4.71E-04	*1.84E-01*	0.39776537	0.56885056	0.03082844	0.00255563
	Silver	0.1516667	0.000375	0.0195		145.71	0.00058204	0	0.000582036	0.00035536	0.000037875	9.75E-04	3.99E-06	0.00E+00	2.44E-06	2.60E-07	*6.69E-06*	0.59679713	0	0.36436731	0.03883556
	Thallium	1.4333333	0.00085	0.1325		0.06	0.00395486	0	0.00395486	0.0033583	0.00008585	7.40E-03	6.58E-02	0.00E+00	5.58E-02	1.43E-03	*1.23E-01*	0.53451206	0	0.45388504	0.0116029
X	Vanadium	14.9	0.00093333	0.1575	0.52	0.16	0.00470106	0.260862223	0.265563283	0.0349107	9.42667E-05	3.01E-01	3.00E-02	1.66E+00	2.23E-01	6.01E-04	*1.92E+00*	0.01564057	0.8678968	0.11614899	0.00031363
	Zinc	350	0.05855	27.7500	13.55	128.66	0.828282	6.817384368	7.645666368	0.82005	0.00591355	8.47E+00	6.44E-03	5.30E-02	6.37E-03	4.60E-05	*6.58E-02*	0.09777127	0.80473114	0.09679955	0.00069804

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Volatile Organics																				
	2-Butanone	0.00655	0.0025			9.730183192	0	0	0	1.5347E-05	0.0002525	2.68E-04	0.00E+00	0.00E+00	1.58E-06	2.60E-05	*2.75E-05*	0	0	0.0572964	0.9427036
	Acetone	0.00765	0.0025			1367.050531	0	0	0	1.7924E-05	0.0002525	2.70E-04	0.00E+00	0.00E+00	1.31E-08	1.85E-07	*1.98E-07*	0	0	0.06628093	0.93371907
	cis-1,2-Dichloroethene	0	0.0025			2504.114914	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07	*1.01E-07*	0	0	0	1
	Tetrachloroethene	0.00655	0.0005			6.09153838	0	0	0	1.5347E-05	0.0000505	6.58E-05	0.00E+00	0.00E+00	2.52E-06	8.29E-06	*1.08E-05*	0	0	0.23306653	0.76693347
	Trichloroethene	0.00655	0.0015			3.04576919	0	0	0	1.5347E-05	0.0001515	1.67E-04	0.00E+00	0.00E+00	5.04E-06	4.97E-05	*5.48E-05*	0	0	0.09198057	0.90801943
	Semivolatile Organics																				
	2-Methylnaphthalene	0.219	0.0025			62.53	0	0	0	0.00051312	0.0002525	7.66E-04	0.00E+00	0.00E+00	8.21E-06	4.04E-06	*1.22E-05*	0	0	0.67020064	0.32979936
	Acenaphthylene	0.2052	0.0025			58.00	0	0	0	0.00048078	0.0002525	7.33E-04	0.00E+00	0.00E+00	8.29E-06	4.35E-06	*1.26E-05*	0	0	0.65565847	0.34434153
	Anthracene	0.29	0.0025			435.11	0	0	0	0.00067947	0.0002525	9.32E-04	0.00E+00	0.00E+00	1.56E-06	5.80E-07	*2.14E-06*	0	0	0.72906853	0.27093147
	Benzo(a)anthracene	0.2122	0.0025			0.57	0	0	0	0.00049718	0.0002525	7.50E-04	0.00E+00	0.00E+00	8.79E-04	4.46E-04	*1.33E-03*	0	0	0.66319169	0.33680831
	Benzo(a)pyrene	0.209	0.0025		0.03	0.57	0	0.016684449	0.016684449	0.00048969	0.0002525	1.74E-02	0.00E+00	2.95E-02	8.66E-04	4.46E-04	*3.08E-02*	0	0.95741077	0.02809991	0.01448931
	Benzo(b)fluoranthene	0.3961	0.0025		0.03	0.57	0	0.015164828	0.015164828	0.00092806	0.0002525	1.63E-02	0.00E+00	2.68E-02	1.64E-03	4.46E-04	*2.89E-02*	0	0.92777399	0.05677823	0.01544778
	Benzo(g,h,i)perylene	0.2099	0.0025			58.00	0	0	0	0.0004918	0.0002525	7.44E-04	0.00E+00	0.00E+00	8.48E-06	4.35E-06	*1.28E-05*	0	0	0.66075311	0.33924689
	Benzo(k)fluoranthene	0.3614	0.0025		0.07	0.57	0	0.036186913	0.036186913	0.00084676	0.0002525	3.73E-02	0.00E+00	6.40E-02	1.50E-03	4.46E-04	*6.59E-02*	0	0.97051829	0.02270976	0.00677195
	Carbazole	0.245	0			58.00014758	0	0	0	0.00057404	0	5.74E-04	0.00E+00	0.00E+00	9.90E-06	0.00E+00	*9.90E-06*	0	0	1	0
	Chrysene	0.2519	0.0025		0.03	0.57	0	0.01478328	0.01478328	0.0005902	0.0002525	1.56E-02	0.00E+00	2.61E-02	1.04E-03	4.46E-04	*2.76E-02*	0	0.94607048	0.03777053	0.01615898
	Dibenz(a,h)anthracene	0.205	0.0025			0.57	0	0	0	0.00048032	0.0002525	7.33E-04	0.00E+00	0.00E+00	8.49E-04	4.46E-04	*1.30E-03*	0	0	0.65543828	0.34456172
	Dibenzofuran	0.247	0.0025			58.00	0	0	0	0.00057872	0.0002525	8.31E-04	0.00E+00	0.00E+00	9.98E-06	4.35E-06	*1.43E-05*	0	0	0.69623	0.30377
	Fluoranthene	0.3384	0.0025		0.02	54.39	0	0.008044042	0.008044042	0.00079287	0.0002525	9.09E-03	0.00E+00	1.48E-04	1.46E-05	4.64E-06	*1.67E-04*	0	0.88499024	0.08723018	0.02777957
	Fluorene	0.262	0.0025			54.39	0	0	0	0.00061387	0.0002525	8.66E-04	0.00E+00	0.00E+00	1.13E-05	4.64E-06	*1.59E-05*	0	0	0.70855274	0.29144726
	Indeno(1,2,3-cd)pyrene	0.1875	0.0025		0.08	0.57	0	0.039718959	0.039718959	0.00043931	0.0002525	4.04E-02	0.00E+00	7.02E-02	7.77E-04	4.46E-04	*7.14E-02*	0	0.98288049	0.01087117	0.00624833
	Naphthalene	0.222	0.0025			60.92	0	0	0	0.00052015	0.0002525	7.73E-04	0.00E+00	0.00E+00	8.54E-06	4.15E-06	*1.27E-05*	0	0	0.67320092	0.32679908
	N-nitrosodiphenylamine	0.217	0.0025			120.62	0	0	0	0.00050843	0.0002525	7.61E-04	0.00E+00	0.00E+00	4.22E-06	2.09E-06	*6.31E-06*	0	0	0.66816965	0.33183035
	Phenanthrene	0.306	0.0025		0.08	58.00	0	0.041439116	0.041439116	0.00071696	0.0002525	4.24E-02	0.00E+00	7.14E-04	1.24E-05	4.35E-06	*7.31E-04*	0	0.97714005	0.01690597	0.00595398
	Pyrene	0.371	0.0025		0.02	58.00	0	0.011437344	0.011437344	0.00086925	0.0002525	1.26E-02	0.00E+00	1.97E-04	1.50E-05	4.35E-06	*2.17E-04*	0	0.91068203	0.06921302	0.02010495
	Pesticides and PCBs																				
	4,4'-DDD	0.016009	0.00005	0.0033	8.27E-04	6.84	9.8498E-05	0.00041613	0.000514629	3.7509E-05	0.00000505	5.57E-04	1.44E-05	6.09E-05	5.49E-06	7.39E-07	*8.15E-05*	0.17677778	0.74684026	0.06731859	0.00906337
	4,4'-DDE	0.0075839	0.00005	0.0080	3.29E-04	0.83	0.00023878	0.00016569	0.000404474	1.7769E-05	0.00000505	4.27E-04	2.89E-04	2.00E-04	2.15E-05	6.11E-06	*5.17E-04*	0.55882932	0.38776689	0.04158521	0.01181858
	4,4'-DDT	0.003978	0.00005	0.0011	6.39E-04	0.64	3.134E-05	0.000321464	0.000352805	9.3205E-06	0.00000505	3.67E-04	4.87E-05	5.00E-04	1.45E-05	7.85E-06	*5.71E-04*	0.08535544	0.8755067	0.02538421	0.01375365
	Aldrin	0.000618	0.000025	0.0003		0.16	8.059E-06	0	8.05896E-06	1.448E-06	0.000002525	1.20E-05	5.01E-05	0.00E+00	9.00E-06	1.57E-05	*7.48E-05*	0.66979756	0	0.12034424	0.2098582
	alpha-Chlordane	0.00083	0.000025	0.0006	8.49E-05	1.99	1.8506E-05	4.27402E-05	6.12459E-05	1.9447E-06	0.000002525	6.57E-05	9.29E-06	2.14E-05	9.76E-07	1.27E-06	*3.30E-05*	0.28160368	0.65038068	0.02959251	0.03842313
	Aroclor 1248	0.0217	0.0005	0.0025		0.57	0.00007462	0	0.00007462	5.0843E-05	0.0000505	1.76E-04	1.32E-04	0.00E+00	8.99E-05	8.93E-05	*3.11E-04*	0.42406618	0	0.28894183	0.28699199
	Aroclor 1254	0.0217	0.0005	0.0220		0.15	0.00065666	0	0.000656656	5.0843E-05	0.0000505	7.58E-04	4.49E-03	0.00E+00	3.47E-04	3.45E-04	*5.18E-03*	0.86630182	0	0.06707541	0.06662277
	Aroclor 1260	0.0217	0.0005	0.0410	1.36E-03	0.28	0.00122377	0.000681903	0.001905671	5.0843E-05	0.0000505	2.01E-03	4.41E-03	2.46E-03	1.83E-04	1.82E-04	*7.23E-03*	0.60974562	0.33975991	0.02533271	0.02516176
	beta-BHC	0.000726	0.000025	0.0003		3.22	7.462E-06	0	0.000007462	1.701E-06	0.000002525	1.17E-05	2.32E-06	0.00E+00	5.29E-07	7.85E-07	*3.63E-06*	0.6384316	0	0.1455352	0.21603321
	delta-BHC	0.000978	0.000025	0.0003		1.29	7.462E-06	0	0.000007462	2.2915E-06	0.000002525	1.23E-05	5.80E-06	0.00E+00	1.78E-06	1.96E-06	*9.54E-06*	0.60773123	0	0.18662398	0.20564478
	Endosulfan I	0.000927	0.000025	0.0003	1.53E-04	1.21	7.462E-06	7.67537E-05	8.42157E-05	2.172E-06	0.000002525	8.89E-05	6.19E-06	6.36E-05	1.80E-06	2.09E-06	*7.37E-05*	0.0839251	0.86324819	0.02442804	0.02839867
	Endosulfan Sulfate	0.00217	0.00005	0.0007		1.21	2.1341E-05	0	2.13413E-05	5.0843E-06	0.00000505	3.15E-05	1.77E-05	0.00E+00	4.22E-06	4.19E-06	*2.61E-05*	0.67802678	0	0.16153164	0.16044159
	Endrin Aldehyde	0.002	0.00005	0.0030	6.15E-04	0.04	8.8052E-05	0.000309256	0.000397307	4.686E-06	0.00000505	4.07E-04	2.20E-03	7.73E-03	1.17E-04	1.26E-04	*1.02E-02*	0.21631988	0.7597613	0.01151228	0.01240654
	gamma-Chlordane	0.000761	0.000025	0.0003	7.30E-05	1.99	7.462E-06	3.67532E-05	4.42152E-05	1.783E-06	0.000002525	4.85E-05	3.74E-06	1.84E-05	8.95E-07	1.27E-06	*2.43E-05*	0.15378196	0.75743538	0.03674575	0.05203691
	Inorganics																				
X	Aluminum	4247	0.14033333	52.7000	7.07E+01	41.82	1.5729896	35.56869355	37.14168315	9.950721	0.014173667	4.71E+01	3.76E-02	8.51E-01	2.38E-01	3.39E-04	*1.13E+00*	0.03339214	0.75506851	0.21123846	0.00030089
	Antimony	0.814999	0.0006	0.0550		0.05	0.00164164	0	0.00164164	0.00190954	0.0000606	3.61E-03	3.02E-02	0.00E+00	3.51E-02	1.11E-03	*6.64E-02*	0.45452347	0	0.52869811	0.01677842
X	Arsenic	29.27	0.01268333	2.7000	1.54	0.05	0.0805896	0.77623327	0.85682287	0.0349756	0.001281017	8.93E-01	1.47E+00	1.42E+01	6.38E-01	2.34E-02	*1.63E+01*	0.09023788	0.86916482	0.03916292	0.00143438
	Barium	21	0.03208333	9.9750	2.05	4.33	0.2977338	1.030304911	1.328038711	0.049203	0.003240417	1.38E+00	6.88E-02	2.38E-01	1.14E-02	7.48E-04	*3.19E-01*	0.21567378	0.74633702	0.0356419	0.00234731
	Beryllium	0.16305	4.5667E-05	0.0065		0.53	0.00019401	0	0.000194012	0.00038203	4.61234E-06	5.81E-04	3.66E-04	0.00E+00	7.20E-04	8.69E-06	*1.09E-03*	0.33412871	0	0.65792789	0.0079434
	Cadmium	0.485	0.00056	0.1105	0.05	0.78	0.0032982	0.026141618	0.029439822	0.00113636	0.00005656	3.06E-02	4.25E-03	3.37E-02	1.46E-03	7.29E-05	*3.95E-02*	0.10766925	0.85338826	0.0370961	0.00184639
	Chromium	44.64	0.0062	2.2000	0.83	7.24	0.0656656	0.419735543	0.485401143	0.10459152	0.0006262	5.91E-01	9.07E-03	5.80E-02	1.45E-02	8.65E-05	*8.16E-02*	0.11118101	0.71067074	0.17708801	0.00106024
	Cobalt	5.94	0.000985	0.5400	0.53	4.02	0.01611792	0.265448256	0.281566176	0.01391742	0.000099485	2.96E-01	4.01E-03	6.60E-02	3.46E-03	2.47E-05	*7.35E-02*	0.05452924	0.89804956	0.04708463	0.00033657
	Copper	46.71	0.00718333	62.2500	2.37	12.23	1.858038	1.190327907	3.048365907	0.10944153	0.000725517	3.16E+00	1.52E-01	9.73E-02	8.95E-03	5.93E-05	*2.58E-01*	0.58825981	0.37686101	0.03464948	0.0002297
	Cyanide	0.285625	0.0025	0.2250		51.90	0.0067158	0	0.0067158	0.00066922	0.0002525	7.64E-03	1.29E-04	0.00E+00	1.29E-05	4.87E-06	*1.47E-04*	0.87931692	0	0.08762261	0.03306047
X	Iron	10919	1.20933333	342.5000	903.87	2.57	10.22294	454.7853086	465.0082486	25.583217	0.122142667	4.91E+02	3.99E+00	1.77E+02	9.97E+00	4.76E-02	*1.91E+02*	0.0208328	0.92678357	0.05213472	0.00024891
	Lead	30.21	0.00330833	0.9700	2.76	6.43	0.02895256	1.386184435	1.415136995	0.07078203	0.000334142	1.49E+00	4.50E-03	2.15E-01	1.10E-02	5.19E-05	*2.31E-01*	0.01948023	0.93267047	0.04762448	0.00022482
X	Manganese	364.82	0.5925	120.0000	205.73	70.76	3.58176	103.5110733	107.0928333	0.85477326	0.0598425	1.08E+02	5.06E-02	1.46E+00	1.21E-02	8.46E-04	*1.53E+00*	0.03316216	0.95836976	0.00791402	0.00055406
	Mercury	0.25815	0.00011583	0.0140	0.01	0.03	0.00041787	0.004549985	0.004967857	0.00060485	1.16992E-05	5.58E-03	1.62E-02	1.77E-01	2.35E-02	4.55E-04	*2.17E-01*	0.07482842	0.81476681	0.1083098	0.00209497
	Nickel	8.01	0.00163333	0.1025	0.21	32.17	0.00305942	0.104114734	0.107174154	0.01876743	0.000164967	1.26E-01	9.51E-05	3.24E-03	5.83E-04	5.13E-06	*3.92E-03*	0.0242606	0.82560924	0.14882201	0.00130815
	Selenium	0.431	0.00075	0.3950	0.04	0.16	0.01178996	0.018633576	0.030423536	0.00100983	0.00007575	3.15E-02	7.33E-02	1.16E-01	6.28E-03	4.71E-04	*1.96E-01*	0.37417612	0.5913709	0.03204891	0.00240407
	Silver	0.1505	0.000375	0.0195		145.71	0.00058204	0	0.000582036	0.00035262	0.000037875	9.73E-04	3.99E-06	0.00E+00	2.42E-06	2.60E-07	*6.67E-06*	0.5984746	0	0.36258068	0.03894471
	Thallium	0.916	0.00085	0.1325		0.06	0.00395486	0	0.00395486	0.00214619	0.00008585	6.19E-03	6.58E-02	0.00E+00	3.57E-02	1.43E-03	*1.03E-01*	0.63923149	0	0.34689242	0.0138761
X	Vanadium	11.34	0.00093333	0.1575	0.39	0.16	0.00470106	0.19853541	0.20323647	0.02656962	9.42667E-05	2.30E-01	3.00E-02	1.27E+00	1.69E-01	6.01E-04	*1.47E+00*	0.02044825	0.86357156	0.11557016	0.00041003
	Zinc	156.45	0.05855	27.7500	6.06	128.66	0.828282	3.047370812	3.875652812	0.36656235	0.00591355	4.25E+00	6.44E-03	2.37E-02	2.85E-03	4.60E-05	*3.30E-02*	0.19497573	0.71734428	0.08628796	0.00139204

	Mean Concentrations Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0.01375	0.0025			9.730183192	0	0	0	3.22163E-05	0.0002525	2.85E-04	0.00E+00	0.00E+00	3.31E-06	2.60E-05	*2.93E-05*	0	0	0.11315213	0.88684787
	Acetone	0.087	0.0025			1367.050531	0	0	0	0.000203841	0.0002525	4.56E-04	0.00E+00	0.00E+00	1.49E-07	1.85E-07	*3.34E-07*	0	0	0.4466857	0.5533143
	cis-1,2-Dichloroethene	0.04266667	0.00058333			2504.114914	0	0	0	9.9968E-05	5.89167E-05	1.59E-04	0.00E+00	0.00E+00	3.99E-08	2.35E-08	*6.34E-08*	0	0	0.62918596	0.37081404
	Tetrachloroethene	0.080625	0.0005			6.09153838	0	0	0	0.000188904	0.0000505	2.39E-04	0.00E+00	0.00E+00	3.10E-05	8.29E-06	*3.93E-05*	0	0	0.78905983	0.21094017
	Trichloroethene	0.034875	0.0005			3.04576919	0	0	0	8.17121E-05	0.0000505	1.32E-04	0.00E+00	0.00E+00	2.68E-05	1.66E-05	*4.34E-05*	0	0	0.61803806	0.38196194
	Semivolatile Organics																				
	2-Methylnaphthalene	0.1595	0.0025			62.53	0	0	0	0.000373709	0.0002525	6.26E-04	0.00E+00	0.00E+00	5.98E-06	4.04E-06	*1.00E-05*	0	0	0.59677967	0.40322033
	Acenaphthylene	0.15825	0.0025			58.00	0	0	0	0.00037078	0.0002525	6.23E-04	0.00E+00	0.00E+00	6.39E-06	4.35E-06	*1.07E-05*	0	0	0.59488496	0.40511504
	Anthracene	0.186375	0.0025			435.11	0	0	0	0.000436677	0.0002525	6.89E-04	0.00E+00	0.00E+00	1.00E-06	5.80E-07	*1.58E-06*	0	0	0.63362077	0.36637923
	Benzo(a)anthracene	0.3475	0.0025			0.57	0	0	0	0.000814193	0.0002525	1.07E-03	0.00E+00	0.00E+00	1.44E-03	4.46E-04	*1.89E-03*	0	0	0.76328698	0.23671302
	Benzo(a)pyrene	0.3675	0.0025		0.06	0.57	0	0.029337489	0.029337489	0.000861053	0.0002525	3.05E-02	0.00E+00	5.19E-02	1.52E-03	4.46E-04	*5.38E-02*	0	0.96343138	0.02827662	0.008292
	Benzo(b)fluoranthene	0.45916667	0.0025		0.03	0.57	0	0.017579357	0.017579357	0.001075828	0.0002525	1.89E-02	0.00E+00	3.11E-02	1.90E-03	4.46E-04	*3.34E-02*	0	0.92974669	0.05689895	0.01335436
	Benzo(g,h,i)perylene	0.29125	0.0025			58.00	0	0	0	0.000682399	0.0002525	9.35E-04	0.00E+00	0.00E+00	1.18E-05	4.35E-06	*1.61E-05*	0	0	0.72991728	0.27008272
	Benzo(k)fluoranthene	0.36166667	0.0025		0.07	0.57	0	0.036213614	0.036213614	0.000847385	0.0002525	3.73E-02	0.00E+00	6.40E-02	1.50E-03	4.46E-04	*6.60E-02*	0	0.97052313	0.02270988	0.00676699
	Carbazole	0.3	0			58.00014758	0	0	0	0.0007029	0	7.03E-04	0.00E+00	0.00E+00	1.21E-05	0.00E+00	*1.21E-05*	0	0	1	0
	Chrysene	0.4075	0.0025		0.05	0.57	0	0.023914993	0.023914993	0.000954773	0.0002525	2.51E-02	0.00E+00	4.23E-02	1.69E-03	4.46E-04	*4.44E-02*	0	0.95194412	0.03800503	0.01005085
	Dibenz(a,h)anthracene	0.1985	0.0025			0.57	0	0	0	0.000465086	0.0002525	7.18E-04	0.00E+00	0.00E+00	8.22E-04	4.46E-04	*1.27E-03*	0	0	0.64812555	0.35187445
	Dibenzofuran	0.3	0.0025			58.00	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.21E-05	4.35E-06	*1.65E-05*	0	0	0.73571279	0.26428721
	Fluoranthene	0.58583333	0.0025		0.03	54.39	0	0.013925733	0.013925733	0.001372607	0.0002525	1.56E-02	0.00E+00	2.56E-04	2.52E-05	4.64E-06	*2.86E-04*	0	0.89549713	0.08826581	0.01623706
	Fluorene	0.19675	0.0025			54.39	0	0	0	0.000460985	0.0002525	7.13E-04	0.00E+00	0.00E+00	8.48E-06	4.64E-06	*1.31E-05*	0	0	0.64610341	0.35389659
	Indeno(1,2,3-cd)pyrene	0.29875	0.0025		0.13	0.57	0	0.063285542	0.063285542	0.000699971	0.0002525	6.42E-02	0.00E+00	1.12E-01	1.24E-03	4.46E-04	*1.14E-01*	0	0.98517278	0.01089653	0.00393069
	Naphthalene	0.17425	0.0025			60.92	0	0	0	0.000408268	0.0002525	6.61E-04	0.00E+00	0.00E+00	6.70E-06	4.15E-06	*1.08E-05*	0	0	0.61786876	0.38213124
	N-nitrosodiphenylamine	0.42	0.0025			120.62	0	0	0	0.00098406	0.0002525	1.24E-03	0.00E+00	0.00E+00	8.16E-06	2.09E-06	*1.03E-05*	0	0	0.79580449	0.20419551
	Phenanthrene	0.375	0.0025		0.10	58.00	0	0.050783231	0.050783231	0.000878625	0.0002525	5.19E-02	0.00E+00	8.76E-04	1.51E-05	4.35E-06	*8.95E-04*	0	0.97821171	0.01692451	0.00486378
	Pyrene	0.569	0.0025		0.03	58.00	0	0.017541371	0.017541371	0.001333167	0.0002525	1.91E-02	0.00E+00	3.02E-04	2.30E-05	4.35E-06	*3.30E-04*	0	0.91709814	0.06970065	0.01320121
	Pesticides and PCBs																				
	4,4'-DDD	0.07356667	0.00005	0.0006	3.80E-03	6.84	1.9252E-05	0.001912256	0.001931508	0.000172367	0.00000505	2.11E-03	2.82E-06	2.80E-04	2.52E-05	7.39E-07	*3.09E-04*	0.0091288	0.90674459	0.08173202	0.00239459
	4,4'-DDE	0.053675	0.00005	0.0010	2.33E-03	0.83	2.9102E-05	0.001172671	0.001201773	0.000125761	0.00000505	1.33E-03	3.52E-05	1.42E-03	1.52E-04	6.11E-06	*1.61E-03*	0.02183863	0.87999826	0.09437347	0.00378963
	4,4'-DDT	0.00193417	0.00005	0.0011	3.11E-04	0.64	3.2087E-05	0.000156301	0.000188388	4.53175E-06	0.00000505	1.98E-04	4.99E-05	2.43E-04	7.04E-06	7.85E-06	*3.08E-04*	0.16207857	0.78952127	0.02289117	0.02550899
	Aldrin	0.00520875	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	1.22041E-05	0.000002525	2.38E-05	5.66E-05	0.00E+00	7.59E-05	1.57E-05	*1.48E-04*	0.3819804	0	0.51207291	0.10594669
	alpha-Chlordane	0.008945	2.1729E-05	0.0006	9.15E-04	1.99	1.8655E-05	0.000460615	0.00047927	2.09581E-05	2.19459E-06	5.02E-04	9.36E-06	2.31E-04	1.05E-05	1.10E-06	*2.52E-04*	0.03713006	0.91678783	0.04171411	0.00436801
	Aroclor 1248	0.16525	0.0005	0.0025		0.57	0.00007462	0	0.00007462	0.000387181	0.0000505	5.12E-04	1.32E-04	0.00E+00	6.84E-04	8.93E-05	*9.06E-04*	0.14565663	0	0.75576846	0.09857491
	Aroclor 1254	0.01435	0.0005	0.0195		0.15	0.00058204	0	0.000582036	3.36221E-05	0.0000505	6.66E-04	3.98E-03	0.00E+00	2.30E-04	3.45E-04	*4.55E-03*	0.87372058	0	0.05047158	0.07580784
	Aroclor 1260	0.1045	0.0005	0.0215	6.53E-03	0.28	0.00064173	0.003283818	0.00392555	0.000244844	0.0000505	4.22E-03	2.31E-03	1.18E-02	8.83E-04	1.82E-04	*1.52E-02*	0.152037	0.7779912	0.0580075	0.01196429
	beta-BHC	0.00092125	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	2.15849E-06	0.000002525	1.23E-05	2.37E-06	0.00E+00	6.71E-07	7.85E-07	*3.82E-06*	0.6190653	0	0.17556213	0.20537257
	delta-BHC	0.00053125	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	1.24472E-06	0.000002525	1.14E-05	5.92E-06	0.00E+00	9.67E-07	1.96E-06	*8.85E-06*	0.66876967	0	0.10936853	0.2218618
	Endosulfan I	0.00092125	0.000025	0.0006	1.52E-04	1.21	1.8655E-05	7.62776E-05	9.49326E-05	2.15849E-06	0.000002525	9.96E-05	1.55E-05	6.32E-05	1.79E-06	2.09E-06	*8.26E-05*	0.18726902	0.76571558	0.02166808	0.02534732
	Endosulfan Sulfate	0.00180625	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	4.23204E-06	0.00000505	3.75E-05	2.34E-05	0.00E+00	3.51E-06	4.19E-06	*3.11E-05*	0.75240227	0	0.11288941	0.13470832
	Endrin Aldehyde	0.0047	0.00005	0.0022	1.44E-03	0.04	6.5666E-05	0.000726751	0.000792417	1.10121E-05	0.00000505	8.08E-04	1.64E-03	1.82E-02	2.75E-04	1.26E-04	*2.02E-02*	0.08122115	0.89891179	0.01362076	0.0062463
	gamma-Chlordane	0.00802167	2.1629E-05	0.0003	7.70E-04	1.99	7.6112E-06	0.000387414	0.000395025	1.87948E-05	2.18449E-06	4.16E-04	3.82E-06	1.94E-04	9.43E-06	1.10E-06	*2.09E-04*	0.01829605	0.93127361	0.04517923	0.00525112
	Inorganics																				
X	Aluminum	23990	0.38611429	47.9000	3.99E+02	41.82	1.4297192	200.9166372	202.3463564	56.20857	0.038997543	2.59E+02	3.42E-02	4.80E+00	1.34E+00	9.33E-04	*6.18E+00*	0.00552882	0.77695807	0.2173623	0.00015081
	Antimony	14.6	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.0342078	6.99786E-05	3.58E-02	2.73E-02	0.00E+00	6.29E-01	1.29E-03	*6.58E-01*	0.04152196	0	0.9565213	0.00195675
X	Arsenic	862.916667	0.02458571	3.7500	45.48	0.05	0.11193	22.8843398	22.9962698	1.031125013	0.002483157	2.40E+01	2.04E+00	4.17E+02	1.88E+01	4.53E-02	*4.38E+02*	0.00465795	0.95232859	0.04291012	0.00010334
	Barium	68.8916667	0.03734286	8.8000	6.72	4.33	0.2626624	3.379972503	3.642634903	0.161413175	0.003771629	3.81E+00	6.07E-02	7.81E-01	3.73E-02	8.71E-04	*8.79E-01*	0.06897974	0.88763985	0.04238992	0.0009905
	Beryllium	1.5383333	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.003604315	6.44236E-06	3.79E-03	3.37E-04	0.00E+00	6.79E-03	1.21E-05	*7.14E-03*	0.0472547	0	0.9510454	0.0016999
	Cadmium	13.4416667	0.00043	0.0570	1.44	0.78	0.00170134	0.724509118	0.726210454	0.031493825	0.00004343	7.58E-01	2.19E-03	9.34E-01	4.06E-02	5.60E-05	*9.77E-01*	0.00224525	0.95613502	0.04156242	5.7315E-05
X	Chromium	1375.5	0.02578571	0.8950	25.70	7.24	0.02671396	12.9333835	12.96009746	3.2227965	0.002604357	1.62E+01	3.69E-03	1.79E+00	4.45E-01	3.60E-04	*2.24E+00*	0.00165049	0.79907231	0.1991163	0.00016091
	Cobalt	22.025	0.00146857	0.4850	1.96	4.02	0.01447628	0.984258894	0.998735174	0.051604575	0.000148326	1.05E+00	3.60E-03	2.45E-01	1.28E-02	3.69E-05	*2.61E-01*	0.01378053	0.9369539	0.04912438	0.0001412
X	Copper	1707.16667	0.02154286	54.3500	86.46	12.23	1.6222388	43.50434865	45.12658745	3.9998915	0.002175829	4.91E+01	1.33E-01	3.56E+00	3.27E-01	1.78E-04	*4.02E+00*	0.03302022	0.88551882	0.08141667	4.4288E-05
	Cyanide	0.455	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0.001066065	0.0002525	9.30E-03	1.54E-04	0.00E+00	2.05E-05	4.87E-06	*1.79E-04*	0.85826309	0	0.11459485	0.02714206
X	Iron	33225	2.401	577.5000	2750.36	2.57	17.23722	1383.84851	1401.08573	77.846175	0.242501	1.48E+03	6.72E+00	5.39E+02	3.03E+01	9.45E-02	*5.77E+02*	0.01165327	0.93555466	0.05262812	0.00016394
X	Lead	589.5	0.01307286	0.5150	53.76	6.43	0.01537172	27.04917989	27.06455161	1.3811985	0.001320358	2.84E+01	2.39E-03	4.20E+00	2.15E-01	2.05E-04	*4.42E+00*	0.00054036	0.95085995	0.04855328	4.6415E-05
X	Manganese	531.5	0.46971429	88.7000	299.72	70.76	2.6475176	150.803507	153.4510246	1.2453045	0.047441143	1.55E+02	3.74E-02	2.13E+00	1.76E-02	6.70E-04	*2.19E+00*	0.01710904	0.97453685	0.00804753	0.00030658
X	Mercury	10.5466667	0.00020393	0.0090	0.37	0.03	0.00026863	0.185888743	0.186157375	0.02471084	2.05968E-05	2.11E-01	1.04E-02	7.22E+00	9.60E-01	8.00E-04	*8.20E+00*	0.00127381	0.88145379	0.11717473	9.7667E-05
	Nickel	27.0583333	0.00284286	0.0675	0.70	32.17	0.00201474	0.351706763	0.353721503	0.063397675	0.000287129	4.17E-01	6.26E-05	1.09E-02	1.97E-03	8.93E-06	*1.30E-02*	0.00482681	0.8426005	0.1518848	0.00068789
X	Selenium	6.8083333	0.00085714	0.3300	0.59	0.16	0.00984984	0.294347091	0.304196931	0.015951925	8.65714E-05	3.20E-01	6.12E-02	1.83E+00	9.92E-02	5.38E-04	*1.99E+00*	0.03075812	0.91915842	0.04981312	0.00027034
	Silver	0.4375	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.001025063	0.00002525	2.15E-03	7.58E-06	0.00E+00	7.03E-06	1.73E-07	*1.48E-05*	0.51254555	0	0.47573582	0.01171863
	Thallium	0.675	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.001581525	7.86357E-05	3.67E-03	3.35E-02	0.00E+00	2.63E-02	1.31E-03	*6.11E-02*	0.54824338	0	0.43035857	0.02139805
X	Vanadium	52.6833333	0.00187893	0.1375	1.83	0.16	0.0041041	0.922355129	0.926459229	0.12343705	0.000189772	1.05E+00	2.62E-02	5.88E+00	7.87E-01	1.21E-03	*6.70E+00*	0.00390835	0.87836147	0.11754946	0.00018072
	Zinc	2190.83333	0.12778571	28.7500	84.81	128.66	0.85813	42.67357977	43.53170977	5.1331225	0.012906357	4.87E+01	6.67E-03	3.32E-01	3.99E-02	1.00E-04	*3.78E-01*	0.0176288	0.87665493	0.10545113	0.00026514

	Mean Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0.107	0.0025			9.730183192	0	0	0	0.0002507	0.0002525	5.03E-04	0.00E+00	0.00E+00	2.58E-05	2.60E-05	*5.17E-05*	0	0	0.49821244	0.50178756
	Acetone	0.13	0.0025			1367.050531	0	0	0	0.00030459	0.0002525	5.57E-04	0.00E+00	0.00E+00	2.23E-07	1.85E-07	*4.08E-07*	0	0	0.54675187	0.45324813
	cis-1,2-Dichloroethene	0.17	0.00058333			2504.114914	0	0	0	0.00039831	5.89167E-05	4.57E-04	0.00E+00	0.00E+00	1.59E-07	2.35E-08	*1.83E-07*	0	0	0.87114342	0.12885658
	Tetrachloroethene	0.04975	0.0005			6.09153838	0	0	0	0.00011656	0.0000505	1.67E-04	0.00E+00	0.00E+00	1.91E-05	8.29E-06	*2.74E-05*	0	0	0.69772109	0.30227891
	Trichloroethene	0.03275	0.0005			3.04576919	0	0	0	7.6733E-05	0.0000505	1.27E-04	0.00E+00	0.00E+00	2.52E-05	1.66E-05	*4.18E-05*	0	0	0.60309117	0.39690883
	Semivolatile Organics																				
	2-Methylnaphthalene	0.2355	0.0025			62.53	0	0	0	0.00055178	0.0002525	8.04E-04	0.00E+00	0.00E+00	8.82E-06	4.04E-06	*1.29E-05*	0	0	0.68605324	0.31394676
	Acenaphthylene	0.232	0.0025			58.00	0	0	0	0.00054358	0.0002525	7.96E-04	0.00E+00	0.00E+00	9.37E-06	4.35E-06	*1.37E-05*	0	0	0.68281923	0.31718077
	Anthracene	0.2545	0.0025			435.11	0	0	0	0.00059629	0.0002525	8.49E-04	0.00E+00	0.00E+00	1.37E-06	5.80E-07	*1.95E-06*	0	0	0.70251893	0.29748107
	Benzo(a)anthracene	0.28	0.0025			0.57	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.16E-03	4.46E-04	*1.61E-03*	0	0	0.72208158	0.27791842
	Benzo(a)pyrene	0.39833333	0.0025		0.06	0.57	0	0.031798911	0.031798911	0.00093329	0.0002525	3.30E-02	0.00E+00	5.62E-02	1.65E-03	4.46E-04	*5.83E-02*	0	0.96405016	0.02829478	0.00765506
	Benzo(b)fluoranthene	0.66666667	0.0025		0.05	0.57	0	0.025523568	0.025523568	0.001562	0.0002525	2.73E-02	0.00E+00	4.51E-02	2.76E-03	4.46E-04	*4.83E-02*	0	0.93362735	0.05713644	0.0092362
	Benzo(g,h,i)perylene	0.33833333	0.0025			58.00	0	0	0	0.00079271	0.0002525	1.05E-03	0.00E+00	0.00E+00	1.37E-05	4.35E-06	*1.80E-05*	0	0	0.75842291	0.24157709
	Benzo(k)fluoranthene	0.63	0.0025		0.13	0.57	0	0.06308178	0.06308178	0.00147609	0.0002525	6.48E-02	0.00E+00	1.12E-01	2.61E-03	4.46E-04	*1.15E-01*	0	0.9733285	0.02277552	0.00389598
	Carbazole	0.455	0			58.00014758	0	0	0	0.00106607	0	1.07E-03	0.00E+00	0.00E+00	1.84E-05	0.00E+00	*1.84E-05*	0	0	1	0
	Chrysene	0.41666667	0.0025		0.05	0.57	0	0.024452958	0.024452958	0.00097625	0.0002525	2.57E-02	0.00E+00	4.32E-02	1.73E-03	4.46E-04	*4.54E-02*	0	0.95215466	0.03801344	0.0098319
	Dibenz(a,h)anthracene	0.277	0.0025			0.57	0	0	0	0.00064901	0.0002525	9.02E-04	0.00E+00	0.00E+00	1.15E-03	4.46E-04	*1.59E-03*	0	0	0.71991468	0.28008532
	Dibenzofuran	0.455	0.0025			58.00	0	0	0	0.00106607	0.0002525	1.32E-03	0.00E+00	0.00E+00	1.84E-05	4.35E-06	*2.27E-05*	0	0	0.80850394	0.19149606
	Fluoranthene	0.67	0.0025		0.03	54.39	0	0.015926443	0.015926443	0.00156981	0.0002525	1.77E-02	0.00E+00	2.93E-04	2.89E-05	4.64E-06	*3.26E-04*	0	0.89732743	0.08844622	0.01422635
	Fluorene	0.256	0.0025			54.39	0	0	0	0.00059981	0.0002525	8.52E-04	0.00E+00	0.00E+00	1.10E-05	4.64E-06	*1.57E-05*	0	0	0.70374559	0.29625441
	Indeno(1,2,3-cd)pyrene	0.36166667	0.0025		0.15	0.57	0	0.07661346	0.07661346	0.00084739	0.0002525	7.77E-02	0.00E+00	1.35E-01	1.50E-03	4.46E-04	*1.37E-01*	0	0.9858469	0.01090398	0.00324912
	Naphthalene	0.2435	0.0025			60.92	0	0	0	0.00057052	0.0002525	8.23E-04	0.00E+00	0.00E+00	9.37E-06	4.15E-06	*1.35E-05*	0	0	0.69320327	0.30679673
	N-nitrosodiphenylamine	0.4975	0.0025			120.62	0	0	0	0.00116564	0.0002525	1.42E-03	0.00E+00	0.00E+00	9.66E-06	2.09E-06	*1.18E-05*	0	0	0.82195019	0.17804981
	Phenanthrene	0.20333333	0.0025		0.05	58.00	0	0.027535796	0.027535796	0.00047641	0.0002525	2.83E-02	0.00E+00	4.75E-04	8.21E-06	4.35E-06	*4.87E-04*	0	0.9742113	0.0168553	0.0089334
	Pyrene	0.60666667	0.0025		0.04	58.00	0	0.018702575	0.018702575	0.00142142	0.0002525	2.04E-02	0.00E+00	3.22E-04	2.45E-05	4.35E-06	*3.51E-04*	0	0.91785044	0.06975783	0.01239173
	Pesticides and PCBs																				
	4,4'-DDD	0.0248	0.00005	0.0006	1.28E-03	6.84	1.9252E-05	0.000644639	0.000663891	5.8106E-05	0.00000505	7.27E-04	2.82E-06	9.43E-05	8.50E-06	7.39E-07	*1.06E-04*	0.02647964	0.88665341	0.07992105	0.0069459
	4,4'-DDE	0.00802	0.00005	0.0010	3.48E-04	0.83	2.9102E-05	0.000175218	0.00020432	1.8791E-05	0.00000505	2.28E-04	3.52E-05	2.12E-04	2.27E-05	6.11E-06	*2.76E-04*	0.12754964	0.76795878	0.08235805	0.02213353
	4,4'-DDT	0.00126667	0.00005	0.0011	2.03E-04	0.64	3.2087E-05	0.00010236	0.000134447	2.9678E-06	0.00000505	1.42E-04	4.99E-05	1.59E-04	4.61E-06	7.85E-06	*2.21E-04*	0.22522535	0.71849534	0.02083187	0.03544745
	Aldrin	0.000335	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	7.8491E-07	0.000002525	1.24E-05	5.66E-05	0.00E+00	4.88E-06	1.57E-05	*7.72E-05*	0.73336343	0	0.06322972	0.20340684
	alpha-Chlordane	0.00380667	2.1729E-05	0.0006	3.90E-04	1.99	1.8655E-05	0.000196021	0.000214676	8.919E-06	2.19459E-06	2.26E-04	9.36E-06	9.84E-05	4.48E-06	1.10E-06	*1.13E-04*	0.0826211	0.86815786	0.03950143	0.00971961
	Aroclor 1248	0.113	0.0005	0.0025		0.57	0.00007462	0	0.00007462	0.00026476	0.0000505	3.90E-04	1.32E-04	0.00E+00	4.68E-04	8.93E-05	*6.89E-04*	0.19139271	0	0.67907992	0.12952737
	Aroclor 1254	0.023825	0.0005	0.0195		0.15	0.00058204	0	0.000582036	5.5822E-05	0.0000505	6.88E-04	3.98E-03	0.00E+00	3.81E-04	3.45E-04	*4.70E-03*	0.84554261	0	0.0810944	0.07336299
	Aroclor 1260	0.11233333	0.0005	0.0215	7.02E-03	0.28	0.00064173	0.003529974	0.004171706	0.0002632	0.0000505	4.49E-03	2.31E-03	1.27E-02	9.49E-04	1.82E-04	*1.62E-02*	0.14307122	0.78699147	0.05867857	0.01125874
	beta-BHC	0.001215	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	2.8467E-06	0.000002525	1.30E-05	2.37E-06	0.00E+00	8.85E-07	7.85E-07	*4.04E-06*	0.58624731	0	0.21926737	0.19448532
	delta-BHC	0.001215	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	2.8467E-06	0.000002525	1.30E-05	5.92E-06	0.00E+00	2.21E-06	1.96E-06	*1.01E-05*	0.58624731	0	0.21926737	0.19448532
	Endosulfan I	0.001395	0.000025	0.0006	2.30E-04	1.21	1.8655E-05	0.000115503	0.000134158	3.2685E-06	0.000002525	1.40E-04	1.55E-05	9.58E-05	2.71E-06	2.09E-06	*1.16E-04*	0.13329613	0.82530751	0.0233544	0.01804196
	Endosulfan Sulfate	0.00266	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	6.2324E-06	0.00000505	3.95E-05	2.34E-05	0.00E+00	5.17E-06	4.19E-06	*3.27E-05*	0.71428868	0	0.15782676	0.12788456
	Endrin Aldehyde	0.00315	0.00005	0.0022	9.68E-04	0.04	6.5666E-05	0.000487078	0.000552744	7.3805E-06	0.00000505	5.65E-04	1.64E-03	1.22E-02	1.84E-04	1.26E-04	*1.41E-02*	0.1161865	0.86181948	0.01305872	0.0089353
	gamma-Chlordane	0.00293667	2.1629E-05	0.0003	2.82E-04	1.99	7.6112E-06	0.000141829	0.00014944	6.8806E-06	2.18449E-06	1.59E-04	3.82E-06	7.12E-05	3.45E-06	1.10E-06	*7.95E-05*	0.04801878	0.89479014	0.04340929	0.01378179
	Inorganics																				
X	Aluminum	9296.66667	0.38611429	47.9000	1.55E+02	41.82	1.4297192	77.85973338	79.28945258	21.78209	0.038997543	1.01E+02	3.42E-02	1.86E+00	5.21E-01	9.33E-04	*2.42E+00*	0.01414016	0.77004567	0.21542848	0.00038569
	Antimony	1.55	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.00363165	6.99786E-05	5.19E-03	2.73E-02	0.00E+00	6.68E-02	1.29E-03	*9.54E-02*	0.28630463	0	0.7002031	0.01349227
X	Arsenic	287.333333	0.02458571	3.7500	15.14	0.05	0.11193	7.620010007	7.731940007	0.34334322	0.002483157	8.08E+00	2.04E+00	1.39E+02	6.26E+00	4.53E-02	*1.47E+02*	0.01385655	0.94333132	0.04250472	0.00030741
	Barium	78.8333333	0.03734286	8.8000	7.69	4.33	0.2626624	3.867731928	4.130394328	0.1847065	0.003771629	4.32E+00	6.07E-02	8.93E-01	4.27E-02	8.71E-04	*9.97E-01*	0.06081736	0.89554206	0.0427673	0.00087329
	Beryllium	0.6233333	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00146047	6.44236E-06	1.65E-03	3.37E-04	0.00E+00	2.75E-03	1.21E-05	*3.10E-03*	0.10880193	0	0.88728413	0.00391395
	Cadmium	5.4	0.00043	0.0570	0.58	0.78	0.00170134	0.291061319	0.292762655	0.0126522	0.00004343	3.05E-01	2.19E-03	3.75E-01	1.63E-02	5.60E-05	*3.94E-01*	0.00556978	0.95286765	0.04142039	0.00014218
	Chromium	506.666667	0.02578571	0.8950	9.47	7.24	0.02671396	4.764023488	4.790737448	1.18712	0.002604357	5.98E+00	3.69E-03	6.58E-01	1.64E-01	3.60E-04	*8.26E-01*	0.00446687	0.79659793	0.19849972	0.00043548
	Cobalt	17.7333333	0.00146857	0.4850	1.58	4.02	0.01447628	0.792471783	0.806948063	0.0415492	0.000148326	8.49E-01	3.60E-03	1.97E-01	1.03E-02	3.69E-05	*2.11E-01*	0.0170581	0.9338077	0.04895942	0.00017478
	Copper	285.666667	0.02154286	54.3500	14.47	12.23	1.6222388	7.279747496	8.901986296	0.669317	0.002175829	9.57E+00	1.33E-01	5.95E-01	5.47E-02	1.78E-04	*7.83E-01*	0.16945133	0.76040773	0.06991366	0.00022728
	Cyanide	0.7425	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0.00173968	0.0002525	9.98E-03	1.54E-04	0.00E+00	3.35E-05	4.87E-06	*1.92E-04*	0.80031334	0	0.17437723	0.02530943
X	Iron	30433.3333	2.401	577.5000	2519.27	2.57	17.23722	1267.573303	1284.810523	71.3053	0.242501	1.36E+03	6.72E+00	4.94E+02	2.78E+01	9.45E-02	*5.29E+02*	0.01270846	0.93454162	0.05257114	0.00017879
X	Lead	274.666667	0.01307286	0.5150	25.05	6.43	0.01537172	12.60306714	12.61843886	0.643544	0.001320358	1.33E+01	2.39E-03	1.96E+00	1.00E-01	2.05E-04	*2.06E+00*	0.00115897	0.95022084	0.04852064	9.955E-05
X	Manganese	859.666667	0.46971429	88.7000	484.77	70.76	2.6475176	243.9148602	246.5623778	2.014199	0.047441143	2.49E+02	3.74E-02	3.45E+00	2.85E-02	6.70E-04	*3.51E+00*	0.01064868	0.98105912	0.00810139	0.00019081
X	Mercury	2.2333333	0.00020393	0.0090	0.08	0.03	0.00026863	0.039363292	0.039631924	0.0052327	2.05968E-05	4.49E-02	1.04E-02	1.53E+00	2.03E-01	8.00E-04	*1.74E+00*	0.00598487	0.87697668	0.11657957	0.00045888
	Nickel	18.6666667	0.00284286	0.0675	0.48	32.17	0.00201474	0.242631091	0.244645831	0.043736	0.000287129	2.89E-01	6.26E-05	7.54E-03	1.36E-03	8.93E-06	*8.97E-03*	0.00697941	0.84051673	0.15150919	0.00099466
	Selenium	2.6666667	0.00085714	0.3300	0.23	0.16	0.00984984	0.115288948	0.125138788	0.006248	8.65714E-05	1.31E-01	6.12E-02	7.17E-01	3.88E-02	5.38E-04	*8.17E-01*	0.0749189	0.87689969	0.04752294	0.00065847
	Silver	0.5533333	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.00129646	0.00002525	2.43E-03	7.58E-06	0.00E+00	8.90E-06	1.73E-07	*1.66E-05*	0.45520894	0	0.53438335	0.01040771
	Thallium	0.6566667	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.00153857	7.86357E-05	3.63E-03	3.35E-02	0.00E+00	2.56E-02	1.31E-03	*6.04E-02*	0.55472744	0	0.42362143	0.02165112
X	Vanadium	32.7666667	0.00187893	0.1375	1.14	0.16	0.0041041	0.573663456	0.577767556	0.0767723	0.000189772	6.55E-01	2.62E-02	3.66E+00	4.90E-01	1.21E-03	*4.18E+00*	0.00626839	0.87618374	0.11725802	0.00028985
	Zinc	1480	0.12778571	28.7500	57.29	128.66	0.85813	28.82779676	29.68592676	3.46764	0.012906357	3.32E+01	6.67E-03	2.24E-01	2.70E-02	1.00E-04	*2.58E-01*	0.02587342	0.86918487	0.10455257	0.00038914

	Mean Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0.049	0.0025			9.730183192	0	0	0	0.00011481	0.0002525	3.67E-04	0.00E+00	0.00E+00	1.18E-05	2.60E-05	*3.77E-05*	0	0	0.31256415	0.68743585
	Acetone	0.199	0.0025			1367.050531	0	0	0	0.00046626	0.0002525	7.19E-04	0.00E+00	0.00E+00	3.41E-07	1.85E-07	*5.26E-07*	0	0	0.64869907	0.35130093
	cis-1,2-Dichloroethene	0.025	0.00058333			2504.114914	0	0	0	5.8575E-05	5.89167E-05	1.17E-04	0.00E+00	0.00E+00	2.34E-08	2.35E-08	*4.69E-08*	0	0	0.49854601	0.50145399
	Tetrachloroethene	0.0365	0.0005			6.09153838	0	0	0	8.552E-05	0.0000505	1.36E-04	0.00E+00	0.00E+00	1.40E-05	8.29E-06	*2.23E-05*	0	0	0.6287297	0.3712703
	Trichloroethene	0.01575	0.0005			3.04576919	0	0	0	3.6902E-05	0.0000505	8.74E-05	0.00E+00	0.00E+00	1.21E-05	1.66E-05	*2.87E-05*	0	0	0.42221167	0.57778833
	Semivolatile Organics																				
	2-Methylnaphthalene	0.195	0.0025			62.53	0	0	0	0.00045689	0.0002525	7.09E-04	0.00E+00	0.00E+00	7.31E-06	4.04E-06	*1.13E-05*	0	0	0.64405788	0.35594212
	Acenaphthylene	0.19433333	0.0025			58.00	0	0	0	0.00045532	0.0002525	7.08E-04	0.00E+00	0.00E+00	7.85E-06	4.35E-06	*1.22E-05*	0	0	0.6432724	0.3567276
	Anthracene	0.213	0.0025			435.11	0	0	0	0.00049906	0.0002525	7.52E-04	0.00E+00	0.00E+00	1.15E-06	5.80E-07	*1.73E-06*	0	0	0.6640317	0.3359683
	Benzo(a)anthracene	0.256	0.0025			0.57	0	0	0	0.00059981	0.0002525	8.52E-04	0.00E+00	0.00E+00	1.06E-03	4.46E-04	*1.51E-03*	0	0	0.70374559	0.29625441
	Benzo(a)pyrene	0.316	0.0025		0.05	0.57	0	0.025226249	0.025226249	0.00074039	0.0002525	2.62E-02	0.00E+00	4.46E-02	1.31E-03	4.46E-04	*4.64E-02*	0	0.96213117	0.02823846	0.00963037
	Benzo(b)fluoranthene	0.658	0.0025		0.05	0.57	0	0.025191762	0.025191762	0.00154169	0.0002525	2.70E-02	0.00E+00	4.45E-02	2.73E-03	4.46E-04	*4.77E-02*	0	0.93351379	0.05712949	0.00935672
	Benzo(g,h,i)perylene	0.31166667	0.0025			58.00	0	0	0	0.00073024	0.0002525	9.83E-04	0.00E+00	0.00E+00	1.26E-05	4.35E-06	*1.69E-05*	0	0	0.743064	0.256936
	Benzo(k)fluoranthene	0.468	0.0025		0.09	0.57	0	0.046860751	0.046860751	0.00109652	0.0002525	4.82E-02	0.00E+00	8.28E-02	1.94E-03	4.46E-04	*8.52E-02*	0	0.97201762	0.02274485	0.00523753
	Carbazole	0.28	0			58.00014758	0	0	0	0.00065604	0	6.56E-04	0.00E+00	0.00E+00	1.13E-05	0.00E+00	*1.13E-05*	0	0	1	0
	Chrysene	0.39	0.0025		0.05	0.57	0	0.022887969	0.022887969	0.00091377	0.0002525	2.41E-02	0.00E+00	4.05E-02	1.62E-03	4.46E-04	*4.25E-02*	0	0.95151499	0.0379879	0.01049711
	Dibenz(a,h)anthracene	0.23666667	0.0025			0.57	0	0	0	0.00055451	0.0002525	8.07E-04	0.00E+00	0.00E+00	9.80E-04	4.46E-04	*1.43E-03*	0	0	0.68711664	0.31288336
	Dibenzofuran	0.28	0.0025			58.00	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.13E-05	4.35E-06	*1.57E-05*	0	0	0.72208158	0.27791842
	Fluoranthene	0.586	0.0025		0.03	54.39	0	0.013929695	0.013929695	0.001373	0.0002525	1.56E-02	0.00E+00	2.56E-04	2.52E-05	4.64E-06	*2.86E-04*	0	0.89550126	0.08826622	0.01623252
	Fluorene	0.21266667	0.0025			54.39	0	0	0	0.00049828	0.0002525	7.51E-04	0.00E+00	0.00E+00	9.16E-06	4.64E-06	*1.38E-05*	0	0	0.66368221	0.33631779
	Indeno(1,2,3-cd)pyrene	0.20725	0.0025		0.09	0.57	0	0.04390269	0.04390269	0.00048559	0.0002525	4.46E-02	0.00E+00	7.76E-02	8.58E-04	4.46E-04	*7.89E-02*	0	0.98346609	0.01087765	0.00565626
	Naphthalene	0.226667	0.0025			60.92	0	0	0	0.00053108	0.0002525	7.84E-04	0.00E+00	0.00E+00	8.72E-06	4.15E-06	*1.29E-05*	0	0	0.67776137	0.32223863
	N-nitrosodiphenylamine	0.1475	0.0025			120.62	0	0	0	0.00034559	0.0002525	5.98E-04	0.00E+00	0.00E+00	2.87E-06	2.09E-06	*4.96E-06*	0	0	0.5778245	0.4221755
	Phenanthrene	0.32375	0.0025		0.09	58.00	0	0.043842856	0.043842856	0.00075855	0.0002525	4.49E-02	0.00E+00	7.56E-04	1.31E-05	4.35E-06	*7.73E-04*	0	0.97745912	0.01691149	0.00562939
	Pyrene	0.546	0.0025		0.03	58.00	0	0.016832317	0.016832317	0.00127928	0.0002525	1.84E-02	0.00E+00	2.90E-04	2.21E-05	4.35E-06	*3.17E-04*	0	0.91658843	0.06966191	0.01374966
	Pesticides and PCBs																				
	4,4'-DDD	0.00195	0.00005	0.0006	1.01E-04	6.84	1.9252E-05	5.06874E-05	6.99393E-05	4.5689E-06	0.00000505	7.96E-05	2.82E-06	7.42E-06	6.68E-07	7.39E-07	*1.16E-05*	0.24198598	0.63711065	0.0574278	0.06347557
	4,4'-DDE	0.001764	0.00005	0.0010	7.66E-05	0.83	2.9102E-05	3.85392E-05	6.7641E-05	4.1331E-06	0.00000505	7.68E-05	3.52E-05	4.66E-05	5.00E-06	6.11E-06	*9.29E-05*	0.37881103	0.50165542	0.05379893	0.06573462
	4,4'-DDT	0.0017075	0.00005	0.0011	2.74E-04	0.64	3.2087E-05	0.000137984	0.000170071	4.0007E-06	0.00000505	1.79E-04	4.99E-05	2.14E-04	6.22E-06	7.85E-06	*2.78E-04*	0.17913338	0.77033844	0.02233499	0.02819319
	Aldrin	0.00046333	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	1.0856E-06	0.000002525	1.27E-05	5.66E-05	0.00E+00	6.75E-06	1.57E-05	*7.91E-05*	0.71601977	0	0.08538385	0.19859638
	alpha-Chlordane	0.001325	2.1729E-05	0.0006	1.36E-04	1.99	1.8655E-05	6.82298E-05	8.68848E-05	3.1045E-06	2.19459E-06	9.22E-05	9.36E-06	3.42E-05	1.56E-06	1.10E-06	*4.63E-05*	0.20236733	0.74014903	0.03367699	0.02380665
	Aroclor 1248	0.02233333	0.0005	0.0025		0.57	0.00007462	0	0.00007462	5.2327E-05	0.0000505	1.77E-04	1.32E-04	0.00E+00	9.25E-05	8.93E-05	*3.14E-04*	0.42051993	0	0.29488805	0.28459202
	Aroclor 1254	0.017867	0.0005	0.0195		0.15	0.00058204	0	0.000582036	4.1862E-05	0.0000505	6.74E-04	3.98E-03	0.00E+00	2.86E-04	3.45E-04	*4.61E-03*	0.86304478	0	0.06207367	0.07488156
	Aroclor 1260	0.02333333	0.0005	0.0215	1.46E-03	0.28	0.00064173	0.000733229	0.001374961	5.467E-05	0.0000505	1.48E-03	2.31E-03	2.64E-03	1.97E-04	1.82E-04	*5.34E-03*	0.43356435	0.49538112	0.03693592	0.0341186
	beta-BHC	0.001038	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	2.432E-06	0.000002525	1.26E-05	2.37E-06	0.00E+00	7.56E-07	7.85E-07	*3.91E-06*	0.60559151	0	0.19350581	0.20090269
	delta-BHC	0.00092667	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	2.1712E-06	0.000002525	1.23E-05	5.92E-06	0.00E+00	1.69E-06	1.96E-06	*9.57E-06*	0.61842693	0	0.17641228	0.20516079
	Endosulfan I	0.0005	0.000025	0.0006	8.23E-05	1.21	1.8655E-05	4.13989E-05	6.00539E-05	1.1715E-06	0.000002525	6.38E-05	1.55E-05	3.43E-05	9.71E-07	2.09E-06	*5.29E-05*	0.29262539	0.6493907	0.01837634	0.03960756
	Endosulfan Sulfate	0.00178667	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	4.1862E-06	0.00000505	3.74E-05	2.34E-05	0.00E+00	3.47E-06	4.19E-06	*3.10E-05*	0.75332429	0	0.11180231	0.1348734
	Endrin Aldehyde	0.00114	0.00005	0.0022	3.50E-04	0.04	6.5666E-05	0.000176276	0.000241941	2.671E-06	0.00000505	2.50E-04	1.64E-03	4.40E-03	6.67E-05	1.26E-04	*6.24E-03*	0.26301749	0.70605668	0.01069852	0.02022731
	gamma-Chlordane	0.000994	2.1629E-05	0.0003	9.54E-05	1.99	7.6112E-06	4.80062E-05	5.56174E-05	2.3289E-06	2.18449E-06	6.01E-05	3.82E-06	2.41E-05	1.17E-06	1.10E-06	*3.02E-05*	0.12657795	0.79836191	0.03873123	0.03632891
	Inorganics																				
X	Aluminum	13136	0.38611429	47.9000	2.19E+02	41.82	1.4297192	110.014212	111.4439312	30.777648	0.038997543	1.42E+02	3.42E-02	2.63E+00	7.36E-01	9.33E-04	*3.40E+00*	0.01005	0.77332888	0.21634699	0.00027413
X	Antimony	39.76875	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.09317818	6.99786E-05	9.47E-02	2.73E-02	0.00E+00	1.71E+00	1.29E-03	*1.74E+00*	0.01567497	0	0.98358634	0.00073869
X	Arsenic	1437.48	0.02458571	3.7500	75.77	0.05	0.11193	38.12161944	38.23354944	1.71768798	0.002483157	4.00E+01	2.04E+00	6.95E+02	3.13E+01	4.53E-02	*7.29E+02*	0.00280149	0.95414442	0.04299194	6.2151E-05
	Barium	52.44	0.03734286	8.8000	5.11	4.33	0.2626624	2.57281855	2.83548095	0.12286692	0.003771629	2.96E+00	6.07E-02	5.94E-01	2.84E-02	8.71E-04	*6.84E-01*	0.0886738	0.86857352	0.04147939	0.00127329
	Beryllium	0.94875	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00222292	6.44236E-06	2.41E-03	3.37E-04	0.00E+00	4.19E-03	1.21E-05	*4.54E-03*	0.07435815	0	0.92296696	0.0026749
	Cadmium	6.44	0.00043	0.0570	0.69	0.78	0.00170134	0.347117573	0.348818909	0.01508892	0.00004343	3.64E-01	2.19E-03	4.48E-01	1.95E-02	5.60E-05	*4.69E-01*	0.00467463	0.95374742	0.04145863	0.00011933
	Chromium	550.22	0.02578571	0.8950	10.28	7.24	0.02671396	5.173541454	5.200255414	1.28916546	0.002604357	6.49E+00	3.69E-03	7.15E-01	1.78E-01	3.60E-04	*8.97E-01*	0.00411489	0.79690717	0.19857678	0.00040116
	Cobalt	25.78	0.00146857	0.4850	2.29	4.02	0.01447628	1.152063304	1.166539584	0.06040254	0.000148326	1.23E+00	3.60E-03	2.87E-01	1.50E-02	3.69E-05	*3.05E-01*	0.01179724	0.93885769	0.0492242	0.00012088
X	Copper	642.62	0.02154286	54.3500	32.55	12.23	1.6222388	16.37611903	17.99835783	1.50565866	0.002175829	1.95E+01	1.33E-01	1.34E+00	1.23E-01	1.78E-04	*1.59E+00*	0.08316532	0.83953438	0.07718875	0.00011155
	Cyanide	0.575	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0.00134723	0.0002525	9.58E-03	1.54E-04	0.00E+00	2.60E-05	4.87E-06	*1.85E-04*	0.83308492	0	0.14056927	0.02634581
X	Iron	56406	2.401	577.5000	4669.28	2.57	17.23722	2349.356179	2366.593399	132.159258	0.242501	2.50E+03	6.72E+00	9.16E+02	5.15E+01	9.45E-02	*9.74E+02*	0.00689766	0.94012034	0.05288496	9.7039E-05
X	Lead	386.54	0.01307286	0.5150	35.25	6.43	0.01537172	17.7363698	17.75174152	0.90566322	0.001320358	1.87E+01	2.39E-03	2.76E+00	1.41E-01	2.05E-04	*2.90E+00*	0.00082384	0.95056708	0.04853832	7.0764E-05
X	Manganese	519	0.46971429	88.7000	292.67	70.76	2.6475176	147.2568582	149.9043758	1.216017	0.047441143	1.51E+02	3.74E-02	2.08E+00	1.72E-02	6.70E-04	*2.14E+00*	0.01751376	0.97412825	0.00804415	0.00031383
X	Mercury	10.075	0.00020393	0.0090	0.35	0.03	0.00026863	0.17757545	0.177844082	0.02360573	2.05968E-05	2.01E-01	1.04E-02	6.90E+00	9.17E-01	8.00E-04	*7.83E+00*	0.00133336	0.8813972	0.11716721	0.00010223
	Nickel	15.66	0.00284286	0.0675	0.40	32.17	0.00201474	0.203550154	0.205564894	0.03669138	0.000287129	2.43E-01	6.26E-05	6.33E-03	1.14E-03	8.93E-06	*7.54E-03*	0.00830672	0.83923187	0.15127758	0.00118382
X	Selenium	8.72	0.00085714	0.3300	0.75	0.16	0.00984984	0.376994857	0.386844697	0.02043096	8.65714E-05	4.07E-01	6.12E-02	2.34E+00	1.27E-01	5.38E-04	*2.53E+00*	0.02417956	0.92545364	0.05015428	0.00021252
	Silver	0.8825	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.0020677	0.00002525	3.20E-03	7.58E-06	0.00E+00	1.42E-05	1.73E-07	*2.19E-05*	0.3454064	0	0.64669637	0.00789723
	Thallium	0.85	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.00199155	7.86357E-05	4.08E-03	3.35E-02	0.00E+00	3.31E-02	1.31E-03	*6.79E-02*	0.49321338	0	0.48753641	0.01925022
X	Vanadium	50.74	0.00187893	0.1375	1.77	0.16	0.0041041	0.888332159	0.892436259	0.11888382	0.000189772	1.01E+00	2.62E-02	5.67E+00	7.58E-01	1.21E-03	*6.45E+00*	0.0040574	0.87822393	0.11753106	0.00018761
	Zinc	2488	0.12778571	28.7500	96.32	128.66	0.85813	48.46186373	49.31999373	5.829384	0.012906357	5.52E+01	6.67E-03	3.77E-01	4.53E-02	1.00E-04	*4.29E-01*	0.01555646	0.87853258	0.10567699	0.00023397

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0.12033333	0.0025			9.730183192	0	0	0	0.00028194	0.0002525	5.34E-04	0.00E+00	0.00E+00	2.90E-05	2.60E-05	*5.49E-05*	0	0	0.52754373	0.47245627
	Acetone	2.465	0.0025			1367.050531	0	0	0	0.0057755	0.0002525	6.03E-03	0.00E+00	0.00E+00	4.22E-06	1.85E-07	*4.41E-06*	0	0	0.95811211	0.04188789
	cis-1,2-Dichloroethene	0.01716667	0.00058333			2504.114914	0	0	0	4.0222E-05	5.89167E-05	9.91E-05	0.00E+00	0.00E+00	1.61E-08	2.35E-08	*3.96E-08*	0	0	0.40571157	0.59428843
	Tetrachloroethene	0.03783333	0.0005			6.09153838	0	0	0	8.8643E-05	0.0000505	1.39E-04	0.00E+00	0.00E+00	1.46E-05	8.29E-06	*2.28E-05*	0	0	0.63706533	0.36293467
	Trichloroethene	0.02183333	0.0005			3.04576919	0	0	0	5.1155E-05	0.0000505	1.02E-04	0.00E+00	0.00E+00	1.68E-05	1.66E-05	*3.34E-05*	0	0	0.50322412	0.49677588
	Semivolatile Organics																				
	2-Methylnaphthalene	0.07866667	0.0025			62.53	0	0	0	0.00018432	0.0002525	4.37E-04	0.00E+00	0.00E+00	2.95E-06	4.04E-06	*6.99E-06*	0	0	0.42195341	0.57804659
	Acenaphthylene	0.06566667	0.0025			58.00	0	0	0	0.00015386	0.0002525	4.06E-04	0.00E+00	0.00E+00	2.65E-06	4.35E-06	*7.01E-06*	0	0	0.3786252	0.6213748
	Anthracene	0.17966667	0.0025			435.11	0	0	0	0.00042096	0.0002525	6.73E-04	0.00E+00	0.00E+00	9.67E-07	5.80E-07	*1.55E-06*	0	0	0.62506997	0.37493003
	Benzo(a)anthracene	0.825	0.0025			0.57	0	0	0	0.00193298	0.0002525	2.19E-03	0.00E+00	0.00E+00	3.42E-03	4.46E-04	*3.86E-03*	0	0	0.88446448	0.11553552
	Benzo(a)pyrene	0.90833333	0.0025		0.14	0.57	0	0.07251216	0.07251216	0.00212822	0.0002525	7.49E-02	0.00E+00	1.28E-01	3.76E-03	4.46E-04	*1.32E-01*	0	0.9682116	0.02841692	0.00337148
	Benzo(b)fluoranthene	1.66166667	0.0025		0.13	0.57	0	0.063617493	0.063617493	0.00389329	0.0002525	6.78E-02	0.00E+00	1.12E-01	6.88E-03	4.46E-04	*1.20E-01*	0	0.93881959	0.0574542	0.00372621
	Benzo(g,h,i)perylene	0.41166667	0.0025			58.00	0	0	0	0.00096454	0.0002525	1.22E-03	0.00E+00	0.00E+00	1.66E-05	4.35E-06	*2.10E-05*	0	0	0.79252856	0.20747144
	Benzo(k)fluoranthene	1.31	0.0025		0.26	0.57	0	0.13117005	0.13117005	0.00306933	0.0002525	1.34E-01	0.00E+00	2.32E-01	5.43E-03	4.46E-04	*2.38E-01*	0	0.97530089	0.02282168	0.00187744
	Carbazole	0.155	0			58.00014758	0	0	0	0.00036317	0	3.63E-04	0.00E+00	0.00E+00	6.26E-06	0.00E+00	*6.26E-06*	0	0	1	0
	Chrysene	1.01666667	0.0025		0.12	0.57	0	0.059665218	0.059665218	0.00238205	0.0002525	6.23E-02	0.00E+00	1.05E-01	4.21E-03	4.46E-04	*1.10E-01*	0	0.95771172	0.03823529	0.00405298
	Dibenz(a,h)anthracene	0.2175	0.0025			0.57	0	0	0	0.0005096	0.0002525	7.62E-04	0.00E+00	0.00E+00	9.01E-04	4.46E-04	*1.35E-03*	0	0	0.66867974	0.33132026
	Dibenzofuran	0.14	0.0025			58.00	0	0	0	0.00032802	0.0002525	5.81E-04	0.00E+00	0.00E+00	5.66E-06	4.35E-06	*1.00E-05*	0	0	0.56504513	0.43495487
	Fluoranthene	2.18833333	0.0025		0.10	54.39	0	0.052018456	0.052018456	0.00512726	0.0002525	5.74E-02	0.00E+00	9.56E-04	9.43E-05	4.64E-06	*1.06E-03*	0	0.90627297	0.08932794	0.00439909
	Fluorene	0.14233333	0.0025			54.39	0	0	0	0.00033349	0.0002525	5.86E-04	0.00E+00	0.00E+00	6.13E-06	4.64E-06	*1.08E-05*	0	0	0.56910307	0.43089693
	Indeno(1,2,3-cd)pyrene	0.64333333	0.0025		0.27	0.57	0	0.136280163	0.136280163	0.00150733	0.0002525	1.38E-01	0.00E+00	2.41E-01	2.66E-03	4.46E-04	*2.44E-01*	0	0.9872513	0.01091952	0.00182918
	Naphthalene	0.0823333	0.0025			60.92	0	0	0	0.00019291	0.0002525	4.45E-04	0.00E+00	0.00E+00	3.17E-06	4.15E-06	*7.31E-06*	0	0	0.43310266	0.56689734
	N-nitrosodiphenylamine	0.14	0.0025			120.62	0	0	0	0.00032802	0.0002525	5.81E-04	0.00E+00	0.00E+00	2.72E-06	2.09E-06	*4.81E-06*	0	0	0.56504513	0.43495487
	Phenanthrene	0.945	0.0025		0.25	58.00	0	0.127973741	0.127973741	0.00221414	0.0002525	1.30E-01	0.00E+00	2.21E-03	3.82E-05	4.35E-06	*2.25E-03*	0	0.98108994	0.01697431	0.00193575
	Pyrene	1.67166667	0.0025		0.10	58.00	0	0.051534842	0.051534842	0.00391672	0.0002525	5.57E-02	0.00E+00	8.89E-04	6.75E-05	4.35E-06	*9.60E-04*	0	0.92515419	0.07031292	0.00453288
	Pesticides and PCBs																				
	4,4'-DDD	0.05911667	0.00005	0.0006	3.05E-03	6.84	1.9252E-05	0.00153665	0.001555902	0.00013851	0.00000505	1.70E-03	2.82E-06	2.25E-04	2.03E-05	7.39E-07	*2.49E-04*	0.01132827	0.90419775	0.08150246	0.00297153
	4,4'-DDE	0.02783333	0.00005	0.0010	1.21E-03	0.83	2.9102E-05	0.000608092	0.000637194	6.5213E-05	0.00000505	7.07E-04	3.52E-05	7.36E-04	7.89E-05	6.11E-06	*8.56E-04*	0.04113576	0.8595459	0.0921801	0.00713824
	4,4'-DDT	0.00360833	0.00005	0.0011	5.80E-04	0.64	3.2087E-05	0.000291591	0.000323678	8.4543E-06	0.00000505	3.37E-04	4.99E-05	4.53E-04	1.31E-05	7.85E-06	*5.24E-04*	0.09516098	0.8647885	0.02507345	0.01497706
	Aldrin	0.00081667	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	1.9135E-06	0.000002525	1.35E-05	5.66E-05	0.00E+00	1.19E-05	1.57E-05	*8.42E-05*	0.67224778	0	0.14129651	0.18645571
	alpha-Chlordane	0.024925	2.1729E-05	0.0006	2.55E-03	1.99	1.8655E-05	0.001283492	0.001302147	5.8399E-05	2.19459E-06	1.36E-03	9.36E-06	6.44E-04	2.93E-05	1.10E-06	*6.84E-04*	0.01368932	0.941846	0.04285426	0.00161042
	Aroclor 1248	0.06866667	0.0005	0.0025		0.57	0.00007462	0	0.00007462	0.00016089	0.0000505	2.86E-04	1.32E-04	0.00E+00	2.84E-04	8.93E-05	*5.06E-04*	0.26090362	0	0.56252666	0.17656972
	Aroclor 1254	0.016067	0.0005	0.0195		0.15	0.00058204	0	0.000582036	3.7645E-05	0.0000505	6.70E-04	3.98E-03	0.00E+00	2.57E-04	3.45E-04	*4.58E-03*	0.86847585	0	0.05617137	0.07535278
	Aroclor 1260	0.1625	0.0005	0.0215	1.01E-02	0.28	0.00064173	0.005106416	0.005748148	0.00038074	0.0000505	6.18E-03	2.31E-03	1.84E-02	1.37E-03	1.82E-04	*2.23E-02*	0.10385046	0.82636307	0.06161414	0.00817233
	beta-BHC	0.001355	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	3.1748E-06	0.000002525	1.33E-05	2.37E-06	0.00E+00	9.87E-07	7.85E-07	*4.14E-06*	0.57180055	0	0.23850678	0.18969266
	delta-BHC	0.00521	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	1.2207E-05	0.000002525	2.23E-05	5.92E-06	0.00E+00	9.49E-06	1.96E-06	*1.74E-05*	0.34065023	0	0.54634035	0.11300942
	Endosulfan I	0.00047667	0.000025	0.0006	7.84E-05	1.21	1.8655E-05	3.9467E-05	5.8122E-05	1.1168E-06	0.000002525	6.18E-05	1.55E-05	3.27E-05	9.26E-07	2.09E-06	*5.12E-05*	0.30203761	0.63899859	0.01808227	0.04088153
	Endosulfan Sulfate	0.00104333	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	2.4445E-06	0.00000505	3.57E-05	2.34E-05	0.00E+00	2.03E-06	4.19E-06	*2.96E-05*	0.79007442	0	0.06847252	0.14145306
	Endrin Aldehyde	0.00468	0.00005	0.0022	1.44E-03	0.04	6.5666E-05	0.000723659	0.000789324	1.0965E-05	0.00000505	8.05E-04	1.64E-03	1.81E-02	2.74E-04	1.26E-04	*2.01E-02*	0.08153777	0.89857591	0.01361567	0.00627065
	gamma-Chlordane	0.11480833	2.1629E-05	0.0003	1.10E-02	1.99	7.6112E-06	0.005544778	0.00555239	0.000269	2.18449E-06	5.82E-03	3.82E-06	2.78E-03	1.35E-04	1.10E-06	*2.92E-03*	0.00130697	0.95212702	0.0461909	0.00037511
	Inorganics																				
X	Aluminum	21638.3333	0.38611429	47.9000	3.60E+02	41.82	1.4297192	181.2213909	182.6511101	50.698615	0.038997543	2.33E+02	3.42E-02	4.33E+00	1.21E+00	9.33E-04	*5.58E+00*	0.00612591	0.77647878	0.21722821	0.00016709
X	Antimony	23.4	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.0548262	6.99786E-05	5.64E-02	2.73E-02	0.00E+00	1.01E+00	1.29E-03	*1.04E+00*	0.02633751	0	0.97242132	0.00124117
X	Arsenic	1266.81667	0.02458571	3.7500	66.77	0.05	0.11193	33.59566941	33.70759941	2.96815145	0.002483157	3.67E+01	2.04E+00	6.13E+02	5.41E+01	4.53E-02	*6.69E+02*	0.00305167	0.91595657	0.08092406	6.7701E-05
X	Barium	102.983333	0.03734286	8.8000	10.04	4.33	0.2626624	5.052582576	5.315244976	0.24128995	0.003771629	5.56E+00	6.07E-02	1.17E+00	5.57E-02	8.71E-04	*1.28E+00*	0.04723883	0.90868777	0.04339508	0.00067831
	Beryllium	1.3083333	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00306542	6.44236E-06	3.25E-03	3.37E-04	0.00E+00	5.78E-03	1.21E-05	*6.13E-03*	0.05508781	0	0.94293051	0.00198168
	Cadmium	8.2666667	0.00043	0.0570	0.89	0.78	0.00170134	0.445575354	0.44727669	0.0193688	0.00004343	4.67E-01	2.19E-03	5.74E-01	2.50E-02	5.60E-05	*6.02E-01*	0.00364555	0.9547588	0.04150259	9.306E-05
	Chromium	512.866667	0.02578571	0.8950	9.58	7.24	0.02671396	4.822320091	4.849034051	1.2016466	0.002604357	6.05E+00	3.69E-03	6.66E-01	1.66E-01	3.60E-04	*8.36E-01*	0.00441313	0.79664514	0.19851149	0.00043024
	Cobalt	18.9333333	0.00146857	0.4850	1.68	4.02	0.01447628	0.846097693	0.860573973	0.0443608	0.000148326	9.05E-01	3.60E-03	2.10E-01	1.10E-02	3.69E-05	*2.25E-01*	0.01599442	0.93482874	0.04901296	0.00016388
X	Copper	1015.33333	0.02154286	54.3500	51.42	12.23	1.6222388	25.87410836	27.49634716	2.378926	0.002175829	2.99E+01	1.33E-01	2.12E+00	1.94E-01	1.78E-04	*2.44E+00*	0.05429643	0.86600795	0.0796228	7.2825E-05
	Cyanide	0	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	41216.6667	2.401	577.5000	3411.91	2.57	17.23722	1716.707983	1733.945203	96.57065	0.242501	1.83E+03	6.72E+00	6.69E+02	3.76E+01	9.45E-02	*7.14E+02*	0.00941534	0.93770321	0.05274899	0.00013246
X	Lead	871.333333	0.01307286	0.5150	79.46	6.43	0.01537172	39.98108919	39.99646091	2.041534	0.001320358	4.20E+01	2.39E-03	6.21E+00	3.17E-01	2.05E-04	*6.53E+00*	0.00036565	0.95104045	0.04856249	3.1408E-05
X	Manganese	664	0.46971429	88.7000	374.44	70.76	2.6475176	188.3979843	191.0455019	1.555752	0.047441143	1.93E+02	3.74E-02	2.66E+00	2.20E-02	6.70E-04	*2.72E+00*	0.01374272	0.97793543	0.00807559	0.00024626
X	Mercury	7.4716667	0.00020393	0.0090	0.26	0.03	0.00026863	0.131690777	0.131959409	0.01750612	2.05968E-05	1.49E-01	1.04E-02	5.12E+00	6.80E-01	8.00E-04	*5.81E+00*	0.00179704	0.88095655	0.11710863	0.00013778
	Nickel	26.4	0.00284286	0.0675	0.68	32.17	0.00201474	0.343149685	0.345164425	0.0618552	0.000287129	4.07E-01	6.26E-05	1.07E-02	1.92E-03	8.93E-06	*1.27E-02*	0.00494649	0.84248464	0.15186392	0.00070494
X	Selenium	9.8883333	0.00085714	0.3300	0.85	0.16	0.00984984	0.427505825	0.437355665	0.02316836	8.65714E-05	4.61E-01	6.12E-02	2.66E+00	1.44E-01	5.38E-04	*2.86E+00*	0.02138431	0.9281285	0.05029924	0.00018795
	Silver	0.905	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.00212042	0.00002525	3.25E-03	7.58E-06	0.00E+00	1.46E-05	1.73E-07	*2.23E-05*	0.33980371	0	0.65242715	0.00776913
	Thallium	1.576	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.00369257	7.86357E-05	5.79E-03	3.35E-02	0.00E+00	6.14E-02	1.31E-03	*9.62E-02*	0.34821286	0	0.63819632	0.01359082
X	Vanadium	74.75	0.00187893	0.1375	2.60	0.16	0.0041041	1.308687996	1.312792096	0.17513925	0.000189772	1.49E+00	2.62E-02	8.35E+00	1.12E+00	1.21E-03	*9.49E+00*	0.00275791	0.87942304	0.11769153	0.00012752
	Zinc	1681	0.12778571	28.7500	65.08	128.66	0.85813	32.74292321	33.60105321	3.938583	0.012906357	3.76E+01	6.67E-03	2.54E-01	3.06E-02	1.00E-04	*2.92E-01*	0.02285145	0.87192294	0.10488193	0.00034369

	Mean Concentrations																				
	Compound	C_{soil} (mg/Kg)	C_{water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0.00633333	0.0025			9.730183192	0	0	0	1.4839E-05	0.0002525	2.67E-04	0.00E+00	0.00E+00	1.53E-06	2.60E-05	*2.75E-05*	0	0	0.0555063	0.9444937
	Acetone	0.068	0.0025			1367.050531	0	0	0	0.00015932	0.0002525	4.12E-04	0.00E+00	0.00E+00	1.17E-07	1.85E-07	*3.01E-07*	0	0	0.386874	0.613126
	cis-1,2-Dichloroethene	0	0.00058333			2504.114914	0	0	0	0	5.89167E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-08	*2.35E-08*	0	0	0	1
	Tetrachloroethene	0.00633333	0.0005			6.09153838	0	0	0	1.4839E-05	0.0000505	6.53E-05	0.00E+00	0.00E+00	2.44E-06	8.29E-06	*1.07E-05*	0	0	0.22710785	0.77289215
	Trichloroethene	0.00633333	0.0005			3.04576919	0	0	0	1.4839E-05	0.0000505	6.53E-05	0.00E+00	0.00E+00	4.87E-06	1.66E-05	*2.15E-05*	0	0	0.22710785	0.77289215
	Semivolatile Organics																				
	2-Methylnaphthalene	1.08333333	0.0025			62.53	0	0	0	0.00253825	0.0002525	2.79E-03	0.00E+00	0.00E+00	4.06E-05	4.04E-06	*4.46E-05*	0	0	0.90952253	0.09047747
	Acenaphthylene	1.08333333	0.0025			58.00	0	0	0	0.00253825	0.0002525	2.79E-03	0.00E+00	0.00E+00	4.38E-05	4.35E-06	*4.81E-05*	0	0	0.90952253	0.09047747
	Anthracene	0.95333333	0.0025			435.11	0	0	0	0.00223366	0.0002525	2.49E-03	0.00E+00	0.00E+00	5.13E-06	5.80E-07	*5.71E-06*	0	0	0.89843775	0.10156225
	Benzo(a)anthracene	0.96666667	0.0025			0.57	0	0	0	0.0022649	0.0002525	2.52E-03	0.00E+00	0.00E+00	4.00E-03	4.46E-04	*4.45E-03*	0	0	0.8996981	0.1003019
	Benzo(a)pyrene	0.99666667	0.0025		0.16	0.57	0	0.079563802	0.079563802	0.00233519	0.0002525	8.22E-02	0.00E+00	1.41E-01	4.13E-03	4.46E-04	*1.45E-01*	0	0.968501	0.02842541	0.00307359
	Benzo(b)fluoranthene	1.44	0.0025		0.11	0.57	0	0.055130907	0.055130907	0.00337392	0.0002525	5.88E-02	0.00E+00	9.75E-02	5.96E-03	4.46E-04	*1.04E-01*	0	0.9382814	0.05742126	0.00429734
	Benzo(g,h,i)perylene	1.08333333	0.0025			58.00	0	0	0	0.00253825	0.0002525	2.79E-03	0.00E+00	0.00E+00	4.38E-05	4.35E-06	*4.81E-05*	0	0	0.90952253	0.09047747
	Benzo(k)fluoranthene	1.1	0.0025		0.22	0.57	0	0.11014279	0.11014279	0.0025773	0.0002525	1.13E-01	0.00E+00	1.95E-01	4.56E-03	4.46E-04	*2.00E-01*	0	0.97495145	0.0228135	0.00223506
	Carbazole	1.08333333	0			58.00014758	0	0	0	0.00253825	0	2.54E-03	0.00E+00	0.00E+00	4.38E-05	0.00E+00	*4.38E-05*	0	0	1	0
	Chrysene	1.17	0.0025		0.14	0.57	0	0.068663907	0.068663907	0.00274131	0.0002525	7.17E-02	0.00E+00	1.21E-01	4.85E-03	4.46E-04	*1.27E-01*	0	0.95822069	0.03825561	0.0035237
	Dibenz(a,h)anthracene	1.08333333	0.0025			0.57	0	0	0	0.00253825	0.0002525	2.79E-03	0.00E+00	0.00E+00	4.49E-03	4.46E-04	*4.93E-03*	0	0	0.90952253	0.09047747
	Dibenzofuran	1.08333333	0.0025			58.00	0	0	0	0.00253825	0.0002525	2.79E-03	0.00E+00	0.00E+00	4.38E-05	4.35E-06	*4.81E-05*	0	0	0.90952253	0.09047747
	Fluoranthene	2.46666667	0.0025		0.12	54.39	0	0.058634665	0.058634665	0.0057794	0.0002525	6.47E-02	0.00E+00	1.08E-03	1.06E-04	4.64E-06	*1.19E-03*	0	0.90672305	0.08937231	0.00390465
	Fluorene	1.08333333	0.0025			54.39	0	0	0	0.00253825	0.0002525	2.79E-03	0.00E+00	0.00E+00	4.67E-05	4.64E-06	*5.13E-05*	0	0	0.90952253	0.09047747
	Indeno(1,2,3-cd)pyrene	1.08333333	0.0025		0.46	0.57	0	0.229487322	0.229487322	0.00253825	0.0002525	2.32E-01	0.00E+00	4.06E-01	4.49E-03	4.46E-04	*4.11E-01*	0	0.98798531	0.01092764	0.00108706
	Naphthalene	1.08333333	0.0025			60.92	0	0	0	0.00253825	0.0002525	2.79E-03	0.00E+00	0.00E+00	4.17E-05	4.15E-06	*4.58E-05*	0	0	0.90952253	0.09047747
	N-nitrosodiphenylamine	1.08333333	0.0025			120.62	0	0	0	0.00253825	0.0002525	2.79E-03	0.00E+00	0.00E+00	2.10E-05	2.09E-06	*2.31E-05*	0	0	0.90952253	0.09047747
	Phenanthrene	1.50333333	0.0025		0.40	58.00	0	0.203584329	0.203584329	0.00352231	0.0002525	2.07E-01	0.00E+00	3.51E-03	6.07E-05	4.35E-06	*3.58E-03*	0	0.98179579	0.01698652	0.00121769
	Pyrene	1.66666667	0.0025		0.10	58.00	0	0.0513807	0.0513807	0.003905	0.0002525	5.55E-02	0.00E+00	8.86E-04	6.73E-05	4.35E-06	*9.58E-04*	0	0.92514161	0.07031197	0.00454642
	Pesticides and PCBs																				
	4,4'-DDD	0.01056667	0.00005	0.0006	5.46E-04	6.84	1.9252E-05	0.000274665	0.000293917	2.4758E-05	0.00000505	3.24E-04	2.82E-06	4.02E-05	3.62E-06	7.39E-07	*4.74E-05*	0.0594702	0.84845242	0.07647769	0.01559969
	4,4'-DDE	0.01006667	0.00005	0.0010	4.37E-04	0.83	2.9102E-05	0.000219933	0.000249035	2.3586E-05	0.00000505	2.78E-04	3.52E-05	2.66E-04	2.85E-05	6.11E-06	*3.36E-04*	0.10480687	0.79206306	0.08494306	0.01818701
	4,4'-DDT	0.01083333	0.00005	0.0011	1.74E-03	0.64	3.2087E-05	0.000875448	0.000907534	2.5382E-05	0.00000505	9.38E-04	4.99E-05	1.36E-03	3.95E-05	7.85E-06	*1.46E-03*	0.03420868	0.93334614	0.0270612	0.00538399
	Aldrin	0.00566667	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	1.3277E-05	0.000002525	2.49E-05	5.66E-05	0.00E+00	8.26E-05	1.57E-05	*1.55E-04*	0.36552524	0	0.5330921	0.10138266
	alpha-Chlordane	0.00413333	2.1729E-05	0.0006	4.23E-04	1.99	1.8655E-05	0.000212843	0.000231498	9.6844E-06	2.19459E-06	2.43E-04	9.36E-06	1.07E-04	4.86E-06	1.10E-06	*1.22E-04*	0.07665076	0.87454016	0.03979183	0.00901725
	Aroclor 1248	0.10833333	0.0005	0.0025		0.57	0.00007462	0	0.00007462	0.00025382	0.0000505	3.79E-04	1.32E-04	0.00E+00	4.49E-04	8.93E-05	*6.70E-04*	0.19691512	0	0.66982016	0.13326472
	Aroclor 1254	0.10833	0.0005	0.0195		0.15	0.00058204	0	0.000582036	0.00025382	0.0000505	8.86E-04	3.98E-03	0.00E+00	1.73E-03	3.45E-04	*6.06E-03*	0.65666374	0	0.28636123	0.05697503
	Aroclor 1260	0.10833333	0.0005	0.0215	6.77E-03	0.28	0.00064173	0.003404277	0.004046009	0.00025382	0.0000505	4.35E-03	2.31E-03	1.23E-02	9.15E-04	1.82E-04	*1.57E-02*	0.14751327	0.78253234	0.05834609	0.0116083
	beta-BHC	0.00566667	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	1.3277E-05	0.000002525	2.34E-05	2.37E-06	0.00E+00	4.13E-06	7.85E-07	*7.28E-06*	0.32508273	0	0.56707231	0.10784496
	delta-BHC	0.00566667	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	1.3277E-05	0.000002525	2.34E-05	5.92E-06	0.00E+00	1.03E-05	1.96E-06	*1.82E-05*	0.32508273	0	0.56707231	0.10784496
	Endosulfan I	0.0114	0.000025	0.0006	1.88E-03	1.21	1.8655E-05	0.000943896	0.000962551	2.671E-05	0.000002525	9.92E-04	1.55E-05	7.83E-04	2.21E-05	2.09E-06	*8.22E-04*	0.0188095	0.95171318	0.02693141	0.00254591
	Endosulfan Sulfate	0.01083333	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	2.5382E-05	0.00000505	5.86E-05	2.34E-05	0.00E+00	2.10E-05	4.19E-06	*4.86E-05*	0.48101822	0	0.43286142	0.08612036
	Endrin Aldehyde	0.01083333	0.00005	0.0022	3.33E-03	0.04	6.5666E-05	0.001675136	0.001740802	2.5382E-05	0.00000505	1.77E-03	1.64E-03	4.18E-02	6.34E-04	1.26E-04	*4.42E-02*	0.03707336	0.94574512	0.0143304	0.00285112
	gamma-Chlordane	0.00566667	2.1629E-05	0.0003	5.44E-04	1.99	7.6112E-06	0.000273677	0.000281288	1.3277E-05	2.18449E-06	2.97E-04	3.82E-06	1.37E-04	6.66E-06	1.10E-06	*1.49E-04*	0.02564868	0.92224855	0.04474139	0.00736138
	Inorganics																				
	Aluminum	3686.66667	0.38611429	47.9000	6.14E+01	41.82	1.4297192	30.87589284	32.30561204	8.63786	0.038997543	4.10E+01	3.42E-02	7.38E-01	2.07E-01	9.33E-04	*9.80E-01*	0.03488612	0.75339269	0.21076963	0.00095157
	Antimony	0.91	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.00213213	6.99786E-05	3.69E-03	2.73E-02	0.00E+00	3.92E-02	1.29E-03	*6.78E-02*	0.40274457	0	0.57827585	0.01897957
X	Arsenic	61.2	0.02458571	3.7500	3.23	0.05	0.11193	1.623009092	1.734939092	0.07312972	0.002483157	1.81E+00	2.04E+00	2.96E+01	1.33E+00	4.53E-02	*3.30E+01*	0.06182093	0.89641674	0.04039084	0.00137149
	Barium	15.9	0.03734286	8.8000	1.55	4.33	0.2626624	0.780088004	1.042750404	0.0372537	0.003771629	1.08E+00	6.07E-02	1.80E-01	8.60E-03	8.71E-04	*2.50E-01*	0.24235863	0.7197873	0.03437399	0.00348008
	Beryllium	0.135	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00031631	6.44236E-06	5.02E-04	3.37E-04	0.00E+00	5.96E-04	1.21E-05	*9.46E-04*	0.35686605	0	0.63029636	0.01283759
	Cadmium	0.6433333	0.00043	0.0570	0.07	0.78	0.00170134	0.034675822	0.036377158	0.00150733	0.00004343	3.79E-02	2.19E-03	4.47E-02	1.94E-03	5.60E-05	*4.89E-02*	0.04485709	0.91425588	0.03974196	0.00114507
	Chromium	104.033333	0.02578571	0.8950	1.94	7.24	0.02671396	0.978191928	1.004905888	0.2437501	0.002604357	1.25E+00	3.69E-03	1.35E-01	3.37E-02	3.60E-04	*1.73E-01*	0.02134964	0.78176531	0.19480366	0.00208139
	Cobalt	4.1	0.00146857	0.4850	0.36	4.02	0.01447628	0.18322186	0.19769814	0.0096063	0.000148326	2.07E-01	3.60E-03	4.56E-02	2.39E-03	3.69E-05	*5.16E-02*	0.06978109	0.88319796	0.04630596	0.00071498
	Copper	57	0.02154286	54.3500	2.89	12.23	1.6222388	1.452551717	3.074790517	0.133551	0.002175829	3.21E+00	1.33E-01	1.19E-01	1.09E-02	1.78E-04	*2.62E-01*	0.50528891	0.45243541	0.04159797	0.00067772
	Cyanide	0.29	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0.00067947	0.0002525	8.92E-03	1.54E-04	0.00E+00	1.31E-05	4.87E-06	*1.72E-04*	0.89547582	0	0.07620529	0.02831889
X	Iron	14010	2.401	577.5000	1159.74	2.57	17.23722	583.5279946	600.7652146	32.82543	0.242501	6.34E+02	6.72E+00	2.27E+02	1.28E+01	9.45E-02	*2.47E+02*	0.0271952	0.92063345	0.05178876	0.00038259
	Lead	68.3333333	0.01307286	0.5150	6.23	6.43	0.01537172	3.135471798	3.150843518	0.160105	0.001320358	3.31E+00	2.39E-03	4.87E-01	2.49E-02	2.05E-04	*5.15E-01*	0.00464084	0.94662357	0.04833696	0.00039863
	Manganese	132.633333	0.46971429	88.7000	74.79	70.76	2.6475176	37.6323082	40.2798258	0.3107599	0.047441143	4.06E+01	3.74E-02	5.32E-01	4.39E-03	6.70E-04	*5.74E-01*	0.06514877	0.9260368	0.00764702	0.00116741
	Mercury	0.5866667	0.00020393	0.0090	0.02	0.03	0.00026863	0.010340209	0.010608841	0.00137456	2.05968E-05	1.20E-02	1.04E-02	4.02E-01	5.34E-02	8.00E-04	*4.66E-01*	0.02237854	0.8613971	0.11450853	0.00171583
	Nickel	7.3333333	0.00284286	0.0675	0.19	32.17	0.00201474	0.095319356	0.097334096	0.017182	0.000287129	1.15E-01	6.26E-05	2.96E-03	5.34E-04	8.93E-06	*3.57E-03*	0.01754951	0.83028466	0.14966478	0.00250105
	Selenium	0.5483333	0.00085714	0.3300	0.05	0.16	0.00984984	0.023706288	0.033556128	0.00128474	8.65714E-05	3.49E-02	6.12E-02	1.47E-01	7.99E-03	5.38E-04	*2.17E-01*	0.28200861	0.67872954	0.03678325	0.00247861
	Silver	0.1366667	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.00032021	0.00002525	1.45E-03	7.58E-06	0.00E+00	2.20E-06	1.73E-07	*9.95E-06*	0.76172473	0	0.2208595	0.01741576
	Thallium	0.49	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.00114807	7.86357E-05	3.24E-03	3.35E-02	0.00E+00	1.91E-02	1.31E-03	*5.39E-02*	0.62155599	0	0.35418455	0.02425946
X	Vanadium	11.4666667	0.00187893	0.1375	0.40	0.16	0.0041041	0.200753031	0.204857131	0.0268664	0.000189772	2.32E-01	2.62E-02	1.28E+00	1.71E-01	1.21E-03	*1.48E+00*	0.0176967	0.86563827	0.11584674	0.00081829
	Zinc	221	0.12778571	28.7500	8.56	128.66	0.85813	4.304691272	5.162821272	0.517803	0.012906357	5.69E+00	6.67E-03	3.35E-02	4.02E-03	1.00E-04	*4.43E-02*	0.15072019	0.75606711	0.09094585	0.00226685

	Mean Concentrations Compound	C_{soil} (mg/Kg)	C_{water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0	0.0025			9.730183192	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	*2.60E-05*	0	0	0	1
	Acetone	0.25	0.0025			1367.050531	0	0	0	0.00058575	0.0002525	8.38E-04	0.00E+00	0.00E+00	4.28E-07	1.85E-07	*6.13E-07*	0	0	0.69877721	0.30122279
	cis-1,2-Dichloroethene	0.187	0.00058333			2504.114914	0	0	0	0.00043814	5.89167E-05	4.97E-04	0.00E+00	0.00E+00	1.75E-07	2.35E-08	*1.98E-07*	0	0	0.88146916	0.11853084
	Tetrachloroethene	0.068	0.0005			6.09153838	0	0	0	0.00015932	0.0000505	2.10E-04	0.00E+00	0.00E+00	2.62E-05	8.29E-06	*3.44E-05*	0	0	0.7593221	0.2406779
	Trichloroethene	0.09333333	0.0005			3.04576919	0	0	0	0.00021868	0.0000505	2.69E-04	0.00E+00	0.00E+00	7.18E-05	1.66E-05	*8.84E-05*	0	0	0.81239319	0.18760681
	Semivolatile Organics																				
	2-Methylnaphthalene	0.01	0.0025			62.53	0	0	0	0.00002343	0.0002525	2.76E-04	0.00E+00	0.00E+00	3.75E-07	4.04E-06	*4.41E-06*	0	0	0.08491284	0.91508716
	Acenaphthylene	0.007	0.0025			58.00	0	0	0	1.6401E-05	0.0002525	2.69E-04	0.00E+00	0.00E+00	2.83E-07	4.35E-06	*4.64E-06*	0	0	0.06099271	0.93900729
	Anthracene	0.05	0.0025			435.11	0	0	0	0.00011715	0.0002525	3.70E-04	0.00E+00	0.00E+00	2.69E-07	5.80E-07	*8.50E-07*	0	0	0.31692141	0.68307859
	Benzo(a)anthracene	0.2	0.0025			0.57	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	8.28E-04	4.46E-04	*1.27E-03*	0	0	0.64984052	0.35015948
	Benzo(a)pyrene	0.18	0.0025		0.03	0.57	0	0.014369382	0.014369382	0.00042174	0.0002525	1.50E-02	0.00E+00	2.54E-02	7.46E-04	4.46E-04	*2.66E-02*	0	0.95518101	0.02803447	0.01678452
	Benzo(b)fluoranthene	0.44	0.0025		0.03	0.57	0	0.016845555	0.016845555	0.00103092	0.0002525	1.81E-02	0.00E+00	2.98E-02	1.82E-03	4.46E-04	*3.21E-02*	0	0.92920615	0.05686587	0.01392798
	Benzo(g,h,i)perylene	0.15	0.0025			58.00	0	0	0	0.00035145	0.0002525	6.04E-04	0.00E+00	0.00E+00	6.06E-06	4.35E-06	*1.04E-05*	0	0	0.58191903	0.41808097
	Benzo(k)fluoranthene	0.27	0.0025		0.05	0.57	0	0.027035048	0.027035048	0.00063261	0.0002525	2.79E-02	0.00E+00	4.78E-02	1.12E-03	4.46E-04	*4.94E-02*	0	0.96829853	0.02265782	0.00904364
	Carbazole	0	0			58.00014758	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0	0
	Chrysene	0.41	0.0025		0.05	0.57	0	0.024061711	0.024061711	0.00096063	0.0002525	2.53E-02	0.00E+00	4.25E-02	1.70E-03	4.46E-04	*4.47E-02*	0	0.95200247	0.03800736	0.00999017
	Dibenz(a,h)anthracene	0.06	0.0025			0.57	0	0	0	0.00014058	0.0002525	3.93E-04	0.00E+00	0.00E+00	2.49E-04	4.46E-04	*6.95E-04*	0	0	0.35763712	0.64236288
	Dibenzofuran	0	0.0025			58.00	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06	*4.35E-06*	0	0	0	1
	Fluoranthene	0.99	0.0025		0.05	54.39	0	0.023533102	0.023533102	0.00231957	0.0002525	2.61E-02	0.00E+00	4.33E-04	4.26E-05	4.64E-06	*4.80E-04*	0	0.90147278	0.08885481	0.00967241
	Fluorene	0.069	0.0025			54.39	0	0	0	0.00016167	0.0002525	4.14E-04	0.00E+00	0.00E+00	2.97E-06	4.64E-06	*7.61E-06*	0	0	0.39034254	0.60965746
	Indeno(1,2,3-cd)pyrene	0.17	0.0025		0.07	0.57	0	0.036011857	0.036011857	0.00039831	0.0002525	3.67E-02	0.00E+00	6.37E-02	7.04E-04	4.46E-04	*6.48E-02*	0	0.9822487	0.01086419	0.00688711
	Naphthalene	0.015	0.0025			60.92	0	0	0	3.5145E-05	0.0002525	2.88E-04	0.00E+00	0.00E+00	5.77E-07	4.15E-06	*4.72E-06*	0	0	0.12218186	0.87781814
	N-nitrosodiphenylamine	0	0.0025			120.62	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06	*2.09E-06*	0	0	0	1
	Phenanthrene	0.4	0.0025		0.11	58.00	0	0.054168779	0.054168779	0.0009372	0.0002525	5.54E-02	0.00E+00	9.34E-04	1.62E-05	4.35E-06	*9.54E-04*	0	0.97850916	0.01692966	0.00456118
	Pyrene	0.59	0.0025		0.04	58.00	0	0.018188768	0.018188768	0.00138237	0.0002525	1.98E-02	0.00E+00	3.14E-04	2.38E-05	4.35E-06	*3.42E-04*	0	0.91752926	0.06973342	0.01273732
	Pesticides and PCBs																				
	4,4'-DDD	0.0069	0.00005	0.0006	3.56E-04	6.84	1.9252E-05	0.000179355	0.000198607	1.6167E-05	0.00000505	2.20E-04	2.82E-06	2.62E-05	2.37E-06	7.39E-07	*3.22E-05*	0.08757901	0.8159042	0.07354386	0.02297293
	4,4'-DDE	0.0038	0.00005	0.0010	1.65E-04	0.83	2.9102E-05	8.3021E-05	0.000112123	8.9034E-06	0.00000505	1.26E-04	3.52E-05	1.00E-04	1.08E-05	6.11E-06	*1.53E-04*	0.23082714	0.65849849	0.07061922	0.04005515
	4,4'-DDT	0.0018	0.00005	0.0011	2.89E-04	0.64	3.2087E-05	0.000145459	0.000177546	4.2174E-06	0.00000505	1.87E-04	4.99E-05	2.26E-04	6.56E-06	7.85E-06	*2.90E-04*	0.17175787	0.77863423	0.02257552	0.02703238
	Aldrin	0.000085	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	1.9916E-07	0.000002525	1.18E-05	5.66E-05	0.00E+00	1.24E-06	1.57E-05	*7.35E-05*	0.76968192	0	0.01683788	0.2134802
	alpha-Chlordane	0.006	2.1729E-05	0.0006	6.14E-04	1.99	1.8655E-05	0.000308965	0.00032762	1.4058E-05	2.19459E-06	3.44E-04	9.36E-06	1.55E-04	7.05E-06	1.10E-06	*1.73E-04*	0.05424973	0.89848688	0.04088141	0.00638198
	Aroclor 1248	0.043	0.0005	0.0025		0.57	0.00007462	0	0.00007462	0.00010075	0.0000505	2.26E-04	1.32E-04	0.00E+00	1.78E-04	8.93E-05	*3.99E-04*	0.33036849	0	0.44605059	0.22358093
	Aroclor 1254	0.00165	0.0005	0.0195		0.15	0.00058204	0	0.000582036	3.866E-06	0.0000505	6.36E-04	3.98E-03	0.00E+00	2.64E-05	3.45E-04	*4.35E-03*	0.91457294	0	0.0060747	0.07935237
	Aroclor 1260	0.083	0.0005	0.0215	5.18E-03	0.28	0.00064173	0.0026082	0.003249932	0.00019447	0.0000505	3.49E-03	2.31E-03	9.40E-03	7.01E-04	1.82E-04	*1.26E-02*	0.18361951	0.74628723	0.05564364	0.01444962
	beta-BHC	0.000085	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	1.9916E-07	0.000002525	1.03E-05	2.37E-06	0.00E+00	6.19E-08	7.85E-07	*3.21E-06*	0.73642468	0	0.01926922	0.2443061
	delta-BHC	0.000085	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	1.9916E-07	0.000002525	1.03E-05	5.92E-06	0.00E+00	1.55E-07	1.96E-06	*8.03E-06*	0.73642468	0	0.01926922	0.2443061
	Endosulfan I	0.0075875	0.000025	0.0006	1.25E-03	1.21	1.8655E-05	0.000628229	0.000646884	1.7778E-05	0.000002525	6.67E-04	1.55E-05	5.21E-04	1.47E-05	2.09E-06	*5.53E-04*	0.0279607	0.94160927	0.02664549	0.00378455
	Endosulfan Sulfate	0.000165	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	3.866E-07	0.00000505	3.36E-05	2.34E-05	0.00E+00	3.21E-07	4.19E-06	*2.79E-05*	0.83840317	0	0.01149111	0.15010572
	Endrin Aldehyde	0.002	0.00005	0.0022	6.15E-04	0.04	6.5666E-05	0.000309256	0.000374921	4.686E-06	0.00000505	3.85E-04	1.64E-03	7.73E-03	1.17E-04	1.26E-04	*9.61E-03*	0.17071187	0.8039773	0.01218227	0.01312856
	gamma-Chlordane	0.00098	2.1629E-05	0.0003	9.41E-05	1.99	7.6112E-06	4.733E-05	5.49413E-05	2.2961E-06	2.18449E-06	5.94E-05	3.82E-06	2.38E-05	1.15E-06	1.10E-06	*2.98E-05*	0.12808811	0.79650824	0.0386413	0.03676234
	Inorganics																				
X	Aluminum	5960	0.38611429	47.9000	9.92E+01	41.82	1.4297192	49.91509619	51.34481539	13.96428	0.038997543	6.53E+01	3.42E-02	1.19E+00	3.34E-01	9.33E-04	*1.56E+00*	0.02187851	0.76383401	0.2136907	0.00059677
	Antimony	4.6333333	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.0108559	6.99786E-05	1.24E-02	2.73E-02	0.00E+00	2.00E-01	1.29E-03	*2.28E-01*	0.1196487	0	0.87471279	0.00563851
X	Arsenic	166.5	0.02458571	3.7500	8.78	0.05	0.11193	4.415539442	4.527469442	0.19895585	0.002483157	4.73E+00	2.04E+00	8.05E+01	3.63E+00	4.53E-02	*8.63E+01*	0.02366931	0.93373333	0.04207226	0.0005251
	Barium	57.45	0.03734286	8.8000	5.60	4.33	0.2626624	2.818619865	3.081282265	0.13460535	0.003771629	3.22E+00	6.07E-02	6.51E-01	3.11E-02	8.71E-04	*7.44E-01*	0.08158081	0.87544043	0.04180733	0.00117144
	Beryllium	0.93	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00217899	6.44236E-06	2.36E-03	3.37E-04	0.00E+00	4.11E-03	1.21E-05	*4.46E-03*	0.07573967	0	0.92153573	0.00272459
X	Cadmium	28.125	0.00043	0.0570	3.01	0.78	0.00170134	1.515944368	1.517645704	0.06589688	0.00004343	1.58E+00	2.19E-03	1.95E+00	8.50E-02	5.60E-05	*2.04E+00*	0.00107436	0.95728578	0.04161244	2.7425E-05
	Chromium	267.75	0.02578571	0.8950	5.00	7.24	0.02671396	2.517567018	2.544280978	0.62733825	0.002604357	3.17E+00	3.69E-03	3.48E-01	8.67E-02	3.60E-04	*4.39E-01*	0.0084159	0.79312845	0.19763518	0.00082047
	Cobalt	17.8	0.00146857	0.4850	1.58	4.02	0.01447628	0.795451001	0.809927281	0.0417054	0.000148326	8.52E-01	3.60E-03	1.98E-01	1.04E-02	3.69E-05	*2.12E-01*	0.01699531	0.93386797	0.04896259	0.00017414
	Copper	352.25	0.02154286	54.3500	17.84	12.23	1.6222388	8.976514779	10.59875358	0.82532175	0.002175829	1.14E+01	1.33E-01	7.34E-01	6.75E-02	1.78E-04	*9.34E-01*	0.14197472	0.78560454	0.07223032	0.00019042
	Cyanide	0	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	17125	2.401	577.5000	1417.60	2.57	17.23722	713.2703004	730.5075204	40.123875	0.242501	7.71E+02	6.72E+00	2.78E+02	1.56E+01	9.45E-02	*3.01E+02*	0.02236062	0.92527494	0.05204986	0.00031458
	Lead	100.275	0.01307286	0.5150	9.14	6.43	0.01537172	4.601113679	4.616485399	0.23494433	0.001320358	4.85E+00	2.39E-03	7.15E-01	3.65E-02	2.05E-04	*7.54E-01*	0.00316763	0.94814561	0.04841468	0.00027208
X	Manganese	1111.25	0.46971429	88.7000	626.64	70.76	2.6475176	315.2970784	317.944596	2.60365875	0.047441143	3.21E+02	3.74E-02	4.46E+00	3.68E-02	6.70E-04	*4.53E+00*	0.00825812	0.98347259	0.00812132	0.00014798
	Mercury	0.8966667	0.00020393	0.0090	0.03	0.03	0.00026863	0.015804069	0.016072701	0.00210089	2.05968E-05	1.82E-02	1.04E-02	6.14E-01	8.16E-02	8.00E-04	*7.07E-01*	0.01476472	0.86863283	0.1154704	0.00113205
	Nickel	16.625	0.00284286	0.0675	0.43	32.17	0.00201474	0.216093315	0.218108055	0.03895238	0.000287129	2.57E-01	6.26E-05	6.72E-03	1.21E-03	8.93E-06	*8.00E-03*	0.00782887	0.83969444	0.15136097	0.00111572
X	Selenium	5.2333333	0.00085714	0.3300	0.45	0.16	0.00984984	0.226254557	0.236104397	0.0122617	8.65714E-05	2.48E-01	6.12E-02	1.41E+00	7.62E-02	5.38E-04	*1.54E+00*	0.03964473	0.91065457	0.04935226	0.00034844
	Silver	0.29	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.00067947	0.00002525	1.81E-03	7.58E-06	0.00E+00	4.66E-06	1.73E-07	*1.24E-05*	0.61045738	0	0.37558538	0.01395725
	Thallium	2.4	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.0056232	7.86357E-05	7.72E-03	3.35E-02	0.00E+00	9.35E-02	1.31E-03	*1.28E-01*	0.26109249	0	0.72871701	0.01019049
X	Vanadium	19.7	0.00187893	0.1375	0.69	0.16	0.0041041	0.344898375	0.349002475	0.0461571	0.000189772	3.95E-01	2.62E-02	2.20E+00	2.94E-01	1.21E-03	*2.52E+00*	0.01038095	0.87238888	0.11675016	0.00048001
	Zinc	2622.5	0.12778571	28.7500	101.52	128.66	0.85813	51.08168716	51.93981716	6.1445175	0.012906357	5.81E+01	6.67E-03	3.97E-01	4.78E-02	1.00E-04	*4.52E-01*	0.01477058	0.87924463	0.10576264	0.00022215

	Mean Concentrations																				
	Compound	C_{soil} (mg/Kg)	C_{water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Volatile Organics																				
	2-Butanone	0.00866667	0.0025			9.730183192	0	0	0	2.0306E-05	0.0002525	2.73E-04	0.00E+00	0.00E+00	2.09E-06	2.60E-05	*2.80E-05*	0	0	0.07443385	0.92556615
	Acetone	0.0125	0.0025			1367.050531	0	0	0	2.9288E-05	0.0002525	2.82E-04	0.00E+00	0.00E+00	2.14E-08	1.85E-07	*2.06E-07*	0	0	0.1039347	0.8960653
	cis-1,2-Dichloroethene	0	0.0025			2504.114914	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07	*1.01E-07*	0	0	0	1
	Tetrachloroethene	0.00866667	0.0005			6.09153838	0	0	0	2.0306E-05	0.0000505	7.08E-05	0.00E+00	0.00E+00	3.33E-06	8.29E-06	*1.16E-05*	0	0	0.28678361	0.71321639
	Trichloroethene	0.00866667	0.0015			3.04576919	0	0	0	2.0306E-05	0.0001515	1.72E-04	0.00E+00	0.00E+00	6.67E-06	4.97E-05	*5.64E-05*	0	0	0.11819145	0.88180855
	Semivolatile Organics																				
	2-Methylnaphthalene	0.28	0.0025			62.53	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.05E-05	4.04E-06	*1.45E-05*	0	0	0.72208158	0.27791842
	Acenaphthylene	0.28	0.0025			58.00	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.13E-05	4.35E-06	*1.57E-05*	0	0	0.72208158	0.27791842
	Anthracene	0.28	0.0025			435.11	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.51E-06	5.80E-07	*2.09E-06*	0	0	0.72208158	0.27791842
	Benzo(a)anthracene	0.28	0.0025			0.57	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.16E-03	4.46E-04	*1.61E-03*	0	0	0.72208158	0.27791842
	Benzo(a)pyrene	0.28	0.0025		0.04	0.57	0	0.022352372	0.022352372	0.00065604	0.0002525	2.33E-02	0.00E+00	3.95E-02	1.16E-03	4.46E-04	*4.11E-02*	0	0.96094134	0.02820354	0.01085512
	Benzo(b)fluoranthene	0.225	0.0025		0.02	0.57	0	0.008614204	0.008614204	0.00052718	0.0002525	9.39E-03	0.00E+00	1.52E-02	9.32E-04	4.46E-04	*1.66E-02*	0	0.91700181	0.05611899	0.0268792
	Benzo(g,h,i)perylene	0.28	0.0025			58.00	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.13E-05	4.35E-06	*1.57E-05*	0	0	0.72208158	0.27791842
	Benzo(k)fluoranthene	0.225	0.0025		0.04	0.57	0	0.022529207	0.022529207	0.00052718	0.0002525	2.33E-02	0.00E+00	3.98E-02	9.32E-04	4.46E-04	*4.12E-02*	0	0.9665503	0.02261691	0.01083278
	Carbazole	0.28	0			58.00014758	0	0	0	0.00065604	0	6.56E-04	0.00E+00	0.00E+00	1.13E-05	0.00E+00	*1.13E-05*	0	0	1	0
	Chrysene	0.28	0.0025		0.03	0.57	0	0.016432388	0.016432388	0.00065604	0.0002525	1.73E-02	0.00E+00	2.91E-02	1.16E-03	4.46E-04	*3.07E-02*	0	0.94760719	0.03783189	0.01456093
	Dibenz(a,h)anthracene	0.28	0.0025			0.57	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.16E-03	4.46E-04	*1.61E-03*	0	0	0.72208158	0.27791842
	Dibenzofuran	0.28	0.0025			58.00	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.13E-05	4.35E-06	*1.57E-05*	0	0	0.72208158	0.27791842
	Fluoranthene	0.116	0.0025		0.01	54.39	0	0.002757414	0.002757414	0.00027179	0.0002525	3.28E-03	0.00E+00	5.07E-05	5.00E-06	4.64E-06	*6.03E-05*	0	0.840239	0.08281922	0.07694178
	Fluorene	0.28	0.0025			54.39	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.21E-05	4.64E-06	*1.67E-05*	0	0	0.72208158	0.27791842
	Indeno(1,2,3-cd)pyrene	0.28	0.0025		0.12	0.57	0	0.059313646	0.059313646	0.00065604	0.0002525	6.02E-02	0.00E+00	1.05E-01	1.16E-03	4.46E-04	*1.06E-01*	0	0.98491353	0.01089366	0.00419281
	Naphthalene	0.28	0.0025			60.92	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	1.08E-05	4.15E-06	*1.49E-05*	0	0	0.72208158	0.27791842
	N-nitrosodiphenylamine	0.28	0.0025			120.62	0	0	0	0.00065604	0.0002525	9.09E-04	0.00E+00	0.00E+00	5.44E-06	2.09E-06	*7.53E-06*	0	0	0.72208158	0.27791842
	Phenanthrene	0.28	0.0025		0.08	58.00	0	0.037918146	0.037918146	0.00065604	0.0002525	3.88E-02	0.00E+00	6.54E-04	1.13E-05	4.35E-06	*6.69E-04*	0	0.97660011	0.01689663	0.00650326
	Pyrene	0.127	0.0025		0.01	58.00	0	0.003915209	0.003915209	0.00029756	0.0002525	4.47E-03	0.00E+00	6.75E-05	5.13E-06	4.35E-06	*7.70E-05*	0	0.8768135	0.06663897	0.05654753
	Pesticides and PCBs																				
	4,4'-DDD	0.0087	0.00005	0.0033	4.49E-04	6.84	9.8498E-05	0.000226144	0.000324642	2.0384E-05	0.00000505	3.50E-04	1.44E-05	3.31E-05	2.98E-06	7.39E-07	*5.12E-05*	0.28136284	0.64598409	0.05822763	0.01442544
	4,4'-DDE	0.00227333	0.00005	0.0080	9.87E-05	0.83	0.00023878	4.96669E-05	0.000288451	5.3264E-06	0.00000505	2.99E-04	2.89E-04	6.01E-05	6.44E-06	6.11E-06	*3.61E-04*	0.79907011	0.16620609	0.01782441	0.01689939
	4,4'-DDT	0.00297333	0.00005	0.0011	4.78E-04	0.64	3.134E-05	0.000240277	0.000271617	6.9665E-06	0.00000505	2.84E-04	4.87E-05	3.73E-04	1.08E-05	7.85E-06	*4.41E-04*	0.11049607	0.84713758	0.02456169	0.01780466
	Aldrin	0.00143333	0.000025	0.0003		0.16	8.059E-06	0	8.05896E-06	3.3583E-06	0.000002525	1.39E-05	5.01E-05	0.00E+00	2.09E-05	1.57E-05	*8.67E-05*	0.57802394	0	0.24087199	0.18110407
	alpha-Chlordane	0.00107333	0.000025	0.0006	1.10E-04	1.99	1.8506E-05	5.52704E-05	7.37762E-05	2.5148E-06	0.000002525	7.88E-05	9.29E-06	2.77E-05	1.26E-06	1.27E-06	*3.96E-05*	0.234797	0.70125887	0.03190748	0.03203664
	Aroclor 1248	0.028	0.0005	0.0025		0.57	0.00007462	0	0.00007462	6.5604E-05	0.0000505	1.91E-04	1.32E-04	0.00E+00	1.16E-04	8.93E-05	*3.37E-04*	0.39124599	0	0.34397349	0.26478052
	Aroclor 1254	0.028	0.0005	0.0220		0.15	0.00065666	0	0.000656656	6.5604E-05	0.0000505	7.73E-04	4.49E-03	0.00E+00	4.48E-04	3.45E-04	*5.28E-03*	0.84975413	0	0.0848957	0.06535017
	Aroclor 1260	0.028	0.0005	0.0410	1.75E-03	0.28	0.00122377	0.000879875	0.002103643	6.5604E-05	0.0000505	2.22E-03	4.41E-03	3.17E-03	2.36E-04	1.82E-04	*8.00E-03*	0.55130975	0.39638518	0.02955472	0.02275034
	beta-BHC	0.00143333	0.000025	0.0003		3.22	7.462E-06	0	0.000007462	3.3583E-06	0.000002525	1.33E-05	2.32E-06	0.00E+00	1.04E-06	7.85E-07	*4.15E-06*	0.55914817	0	0.25164664	0.18920519
	delta-BHC	0.00118	0.000025	0.0003		1.29	7.462E-06	0	0.000007462	2.7647E-06	0.000002525	1.28E-05	5.80E-06	0.00E+00	2.15E-06	1.96E-06	*9.91E-06*	0.58517504	0	0.21681276	0.19801219
	Endosulfan I	0.00143333	0.000025	0.0003	2.36E-04	1.21	7.462E-06	0.000118677	0.000126139	3.3583E-06	0.000002525	1.32E-04	6.19E-06	9.84E-05	2.78E-06	2.09E-06	*1.09E-04*	0.05652076	0.89891631	0.02543737	0.01912556
	Endosulfan Sulfate	0.0028	0.00005	0.0007		1.21	2.1341E-05	0	2.13413E-05	6.5604E-06	0.00000505	3.30E-05	1.77E-05	0.00E+00	5.44E-06	4.19E-06	*2.73E-05*	0.6476542	0	0.19909128	0.15325452
	Endrin Aldehyde	0.0028	0.00005	0.0030	8.60E-04	0.04	8.8052E-05	0.000432958	0.00052101	6.5604E-06	0.00000505	5.33E-04	2.20E-03	1.08E-02	1.64E-04	1.26E-04	*1.33E-02*	0.16531778	0.81288357	0.01231722	0.00948143
	gamma-Chlordane	0.00043667	0.000025	0.0003	4.19E-05	1.99	7.462E-06	2.10892E-05	2.85512E-05	1.0231E-06	0.000002525	3.21E-05	3.74E-06	1.06E-05	5.13E-07	1.27E-06	*1.61E-05*	0.23246579	0.65699894	0.03187324	0.07866204
	Inorganics																				
	Aluminum	2990	0.14033333	52.7000	4.98E+01	41.82	1.5729896	25.04129826	26.61428786	7.00557	0.014173667	3.36E+01	3.76E-02	5.99E-01	1.68E-01	3.39E-04	*8.04E-01*	0.0467678	0.74452265	0.20828814	0.00042141
	Antimony	0.3366667	0.0006	0.0550		0.05	0.00164164	0	0.00164164	0.00078881	0.0000606	2.49E-03	3.02E-02	0.00E+00	1.45E-02	1.11E-03	*4.58E-02*	0.65901525	0	0.31665766	0.02432709
X	Arsenic	10.9	0.01268333	2.7000	0.57	0.05	0.0805896	0.289065345	0.369654945	0.01302474	0.001281017	3.84E-01	1.47E+00	5.27E+00	2.38E-01	2.34E-02	*7.00E+00*	0.20989023	0.75285139	0.03392206	0.00333632
	Barium	14.7333333	0.03208333	9.9750	1.44	4.33	0.2977338	0.722848841	1.020582641	0.0345202	0.003240417	1.06E+00	6.88E-02	1.67E-01	7.97E-03	7.48E-04	*2.44E-01*	0.28132064	0.68300037	0.03261721	0.00306178
	Beryllium	0.0626667	4.5667E-05	0.0065		0.53	0.00019401	0	0.000194012	0.00014683	4.61234E-06	3.45E-04	3.66E-04	0.00E+00	2.77E-04	8.69E-06	*6.51E-04*	0.56161715	0	0.42503127	0.01335158
	Cadmium	0.2066667	0.00056	0.1105	0.02	0.78	0.0032982	0.011139386	0.01443759	0.00048422	0.00005656	1.50E-02	4.25E-03	1.44E-02	6.24E-04	7.29E-05	*1.93E-02*	0.2201978	0.74369814	0.03232796	0.00377611
	Chromium	20.8666667	0.0062	2.2000	0.39	7.24	0.0656656	0.196202547	0.261868147	0.0488906	0.0006262	3.11E-01	9.07E-03	2.71E-02	6.76E-03	8.65E-05	*4.30E-02*	0.21088238	0.63009644	0.15701016	0.00201102
	Cobalt	4.0333333	0.000985	0.5400	0.36	4.02	0.01611792	0.180242641	0.196360561	0.0094501	0.000099485	2.06E-01	4.01E-03	4.48E-02	2.35E-03	2.47E-05	*5.12E-02*	0.07827647	0.87534609	0.04589429	0.00048315
	Copper	21.4666667	0.00718333	62.2500	1.09	12.23	1.858038	0.54704287	2.40508087	0.0502964	0.000725517	2.46E+00	1.52E-01	4.47E-02	4.11E-03	5.93E-05	*2.01E-01*	0.75649847	0.222728	0.02047813	0.00029539
	Cyanide	0.2533333	0.0025	0.2250		51.90	0.0067158	0	0.0067158	0.00059356	0.0002525	7.56E-03	1.29E-04	0.00E+00	1.14E-05	4.87E-06	*1.46E-04*	0.88811484	0	0.07849391	0.03339126
X	Iron	5606.66667	1.20933333	342.5000	464.12	2.57	10.22294	233.5222667	243.7452067	13.13642	0.122142667	2.57E+02	3.99E+00	9.10E+01	5.12E+00	4.76E-02	*1.00E+02*	0.03977739	0.90863363	0.05111373	0.00047526
	Lead	9.1333333	0.00330833	0.9700	0.83	6.43	0.02895256	0.419082571	0.448035131	0.0213994	0.000334142	4.70E-01	4.50E-03	6.51E-02	3.33E-03	5.19E-05	*7.30E-02*	0.06163153	0.89210413	0.04555306	0.00071129
	Manganese	111.766667	0.5925	120.0000	63.03	70.76	3.58176	31.71176916	35.29352916	0.2618693	0.0598425	3.56E+01	5.06E-02	4.48E-01	3.70E-03	8.46E-04	*5.03E-01*	0.10056818	0.89039884	0.00735273	0.00168025
	Mercury	0.1743333	0.00011583	0.0140	0.01	0.03	0.00041787	0.003072686	0.003490558	0.00040846	1.16992E-05	3.91E-03	1.62E-02	1.19E-01	1.59E-02	4.55E-04	*1.52E-01*	0.10685295	0.78570851	0.10444698	0.00299156
	Nickel	3.8333333	0.00163333	0.1025	0.10	32.17	0.00305942	0.049826027	0.052885447	0.0089815	0.000164967	6.20E-02	9.51E-05	1.55E-03	2.79E-04	5.13E-06	*1.93E-03*	0.0493201	0.80323215	0.14478837	0.00265938
	Selenium	0.2783333	0.00075	0.3950	0.02	0.16	0.01178996	0.012033282	0.023823242	0.00065213	0.00007575	2.46E-02	7.33E-02	7.48E-02	4.05E-03	4.71E-04	*1.53E-01*	0.48022072	0.49013156	0.02656232	0.0030854
	Silver	0.1383333	0.000375	0.0195		145.71	0.00058204	0	0.000582036	0.00032411	0.000037875	9.44E-04	3.99E-06	0.00E+00	2.22E-06	2.60E-07	*6.48E-06*	0.61654663	0	0.34333265	0.04012072
	Thallium	0.325	0.00085	0.1325		0.06	0.00395486	0	0.00395486	0.00076148	0.00008585	4.80E-03	6.58E-02	0.00E+00	1.27E-02	1.43E-03	*7.99E-02*	0.82355428	0	0.15856844	0.01787728
	Vanadium	7.0666667	0.00093333	0.1575	0.25	0.16	0.00470106	0.123719891	0.128420951	0.0165572	9.42667E-05	1.45E-01	3.00E-02	7.89E-01	1.06E-01	6.01E-04	*9.25E-01*	0.03240492	0.8528147	0.11413059	0.00064979
	Zinc	89.9666667	0.05855	27.7500	3.48	128.66	0.828282	1.752392421	2.580674421	0.2107919	0.00591355	2.80E+00	6.44E-03	1.36E-02	1.64E-03	4.60E-05	*2.17E-02*	0.29609207	0.62644063	0.07535333	0.00211396

	Mean Concentrations Compound	C_{soil} (mg/Kg)	C_{water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0.06466667	0.0025			9.730183192	0	0	0	0.00015151	0.0002525	4.04E-04	0.00E+00	0.00E+00	1.56E-05	2.60E-05	*4.15E-05*	0	0	0.37502166	0.62497834
	Acetone	0.243	0.0025			1367.050531	0	0	0	0.00056935	0.0002525	8.22E-04	0.00E+00	0.00E+00	4.16E-07	1.85E-07	*6.01E-07*	0	0	0.69276595	0.30723405
	cis-1,2-Dichloroethene	0.0375	0.00058333			2504.114914	0	0	0	8.7863E-05	5.89167E-05	1.47E-04	0.00E+00	0.00E+00	3.51E-08	2.35E-08	*5.86E-08*	0	0	0.59860336	0.40139664
	Tetrachloroethene	0.0565	0.0005			6.09153838	0	0	0	0.00013238	0.0000505	1.83E-04	0.00E+00	0.00E+00	2.17E-05	8.29E-06	*3.00E-05*	0	0	0.72386189	0.27613811
	Trichloroethene	0.0225	0.0005			3.04576919	0	0	0	5.2718E-05	0.0000505	1.03E-04	0.00E+00	0.00E+00	1.73E-05	1.66E-05	*3.39E-05*	0	0	0.51074188	0.48925812
	Semivolatile Organics																				
	2-Methylnaphthalene	0.1972	0.0025			62.53	0	0	0	0.00046204	0.0002525	7.15E-04	0.00E+00	0.00E+00	7.39E-06	4.04E-06	*1.14E-05*	0	0	0.6466256	0.3533744
	Acenaphthylene	0.1978	0.0025			58.00	0	0	0	0.00046345	0.0002525	7.16E-04	0.00E+00	0.00E+00	7.99E-06	4.35E-06	*1.23E-05*	0	0	0.64731947	0.35268053
	Anthracene	0.246	0.0025			435.11	0	0	0	0.00057638	0.0002525	8.29E-04	0.00E+00	0.00E+00	1.32E-06	5.80E-07	*1.90E-06*	0	0	0.69537133	0.30462867
	Benzo(a)anthracene	0.75	0.0025			0.57	0	0	0	0.00175725	0.0002525	2.01E-03	0.00E+00	0.00E+00	3.11E-03	4.46E-04	*3.55E-03*	0	0	0.87436248	0.12563752
	Benzo(a)pyrene	1.13625	0.0025		0.18	0.57	0	0.090706725	0.090706725	0.00266223	0.0002525	9.36E-02	0.00E+00	1.60E-01	4.71E-03	4.46E-04	*1.66E-01*	0	0.96886682	0.02843615	0.00269703
	Benzo(b)fluoranthene	1.1	0.0025		0.08	0.57	0	0.042113887	0.042113887	0.0025773	0.0002525	4.49E-02	0.00E+00	7.45E-02	4.56E-03	4.46E-04	*7.95E-02*	0	0.93703676	0.05734509	0.00561814
	Benzo(g,h,i)perylene	0.79	0.0025			58.00	0	0	0	0.00185097	0.0002525	2.10E-03	0.00E+00	0.00E+00	3.19E-05	4.35E-06	*3.63E-05*	0	0	0.87996026	0.12003974
	Benzo(k)fluoranthene	0.588	0.0025		0.12	0.57	0	0.058876328	0.058876328	0.00137768	0.0002525	6.05E-02	0.00E+00	1.04E-01	2.44E-03	4.46E-04	*1.07E-01*	0	0.97305771	0.02276919	0.0041731
	Carbazole	0.31666667	0			58.00014758	0	0	0	0.00074195	0	7.42E-04	0.00E+00	0.00E+00	1.28E-05	0.00E+00	*1.28E-05*	0	0	1	0
	Chrysene	1.03	0.0025		0.12	0.57	0	0.060447713	0.060447713	0.00241329	0.0002525	6.31E-02	0.00E+00	1.07E-01	4.27E-03	4.46E-04	*1.12E-01*	0	0.95776197	0.0382373	0.00400073
	Dibenz(a,h)anthracene	0.358	0.0025			0.57	0	0	0	0.00083879	0.0002525	1.09E-03	0.00E+00	0.00E+00	1.48E-03	4.46E-04	*1.93E-03*	0	0	0.7686233	0.2313767
	Dibenzofuran	0.31666667	0.0025			58.00	0	0	0	0.00074195	0.0002525	9.94E-04	0.00E+00	0.00E+00	1.28E-05	4.35E-06	*1.71E-05*	0	0	0.7460908	0.2539092
	Fluoranthene	1.613	0.0025		0.08	54.39	0	0.038342317	0.038342317	0.00377926	0.0002525	4.24E-02	0.00E+00	7.05E-04	6.95E-05	4.64E-06	*7.79E-04*	0	0.90485317	0.089188	0.00595883
	Fluorene	0.2308	0.0025			54.39	0	0	0	0.00054076	0.0002525	7.93E-04	0.00E+00	0.00E+00	9.94E-06	4.64E-06	*1.46E-05*	0	0	0.68169503	0.31830497
	Indeno(1,2,3-cd)pyrene	0.77	0.0025		0.32	0.57	0	0.163112527	0.163112527	0.00180411	0.0002525	1.65E-01	0.00E+00	2.88E-01	3.19E-03	4.46E-04	*2.92E-01*	0	0.98754846	0.0109228	0.00152874
	Naphthalene	0.2026	0.0025			60.92	0	0	0	0.00047469	0.0002525	7.27E-04	0.00E+00	0.00E+00	7.79E-06	4.15E-06	*1.19E-05*	0	0	0.65277386	0.34722614
	N-nitrosodiphenylamine	0.305	0.0025			120.62	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	5.92E-06	2.09E-06	*8.02E-06*	0	0	0.73891419	0.26108581
	Phenanthrene	0.71	0.0025		0.19	58.00	0	0.096149583	0.096149583	0.00166353	0.0002525	9.81E-02	0.00E+00	1.66E-03	2.87E-05	4.35E-06	*1.69E-03*	0	0.98046175	0.01696344	0.00257481
	Pyrene	1.26	0.0025		0.08	58.00	0	0.038843809	0.038843809	0.00295218	0.0002525	4.20E-02	0.00E+00	6.70E-04	5.09E-05	4.35E-06	*7.25E-04*	0	0.92378608	0.07020894	0.00600497
	Pesticides and PCBs																				
	4,4'-DDD	0.00701667	0.00005	0.0006	3.62E-04	6.84	1.9252E-05	0.000182388	0.00020164	1.644E-05	0.00000505	2.23E-04	2.82E-06	2.67E-05	2.41E-06	7.39E-07	*3.26E-05*	0.08628142	0.81740672	0.0736793	0.02263256
	4,4'-DDE	0.01117167	0.00005	0.0010	4.85E-04	0.83	2.9102E-05	0.000244074	0.000273176	2.6175E-05	0.00000505	3.04E-04	3.52E-05	2.95E-04	3.17E-05	6.11E-06	*3.68E-04*	0.09560338	0.80181753	0.08598915	0.01658994
	4,4'-DDT	0.001642	0.00005	0.0011	2.64E-04	0.64	3.2087E-05	0.000132691	0.000164778	3.8472E-06	0.00000505	1.74E-04	4.99E-05	2.06E-04	5.98E-06	7.85E-06	*2.70E-04*	0.18475112	0.76401974	0.02215179	0.02907735
	Aldrin	0.000963	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	2.2563E-06	0.000002525	1.39E-05	5.66E-05	0.00E+00	1.40E-05	1.57E-05	*8.63E-05*	0.65564807	0	0.16250034	0.18185159
	alpha-Chlordane	0.00617	2.1729E-05	0.0006	6.31E-04	1.99	1.8655E-05	0.000317719	0.000336374	1.4456E-05	2.19459E-06	3.53E-04	9.36E-06	1.59E-04	7.25E-06	1.10E-06	*1.77E-04*	0.05284328	0.89999037	0.04094982	0.00621652
	Aroclor 1248	0.0642	0.0005	0.0025		0.57	0.00007462	0	0.00007462	0.00015042	0.0000505	2.76E-04	1.32E-04	0.00E+00	2.66E-04	8.93E-05	*4.87E-04*	0.27081309	0	0.54591084	0.18327608
	Aroclor 1254	0.01887	0.0005	0.0195		0.15	0.00058204	0	0.000582036	4.4212E-05	0.0000505	6.77E-04	3.98E-03	0.00E+00	3.02E-04	3.45E-04	*4.62E-03*	0.86004783	0	0.06533064	0.07462153
	Aroclor 1260	0.0687	0.0005	0.0215	4.29E-03	0.28	0.00064173	0.002158835	0.002800567	0.00016096	0.0000505	3.01E-03	2.31E-03	7.78E-03	5.80E-04	1.82E-04	*1.09E-02*	0.2130562	0.71673733	0.05344038	0.01676609
	beta-BHC	0.000963	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	2.2563E-06	0.000002525	1.24E-05	2.37E-06	0.00E+00	7.01E-07	7.85E-07	*3.85E-06*	0.61417873	0	0.18206981	0.20375146
	delta-BHC	0.000963	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	2.2563E-06	0.000002525	1.24E-05	5.92E-06	0.00E+00	1.75E-06	1.96E-06	*9.63E-06*	0.61417873	0	0.18206981	0.20375146
	Endosulfan I	0.000963	0.000025	0.0006	1.58E-04	1.21	1.8655E-05	7.97344E-05	9.83894E-05	2.2563E-06	0.000002525	1.03E-04	1.55E-05	6.61E-05	1.87E-06	2.09E-06	*8.55E-05*	0.18081687	0.77283945	0.02186967	0.02447401
	Endosulfan Sulfate	0.001935	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	4.5337E-06	0.00000505	3.78E-05	2.34E-05	0.00E+00	3.76E-06	4.19E-06	*3.13E-05*	0.74639618	0	0.11997082	0.13363301
	Endrin Aldehyde	0.00302	0.00005	0.0022	9.28E-04	0.04	6.5666E-05	0.000466976	0.000532642	7.0759E-06	0.00000505	5.45E-04	1.64E-03	1.17E-02	1.77E-04	1.26E-04	*1.36E-02*	0.12053868	0.85720255	0.01298876	0.00927
	gamma-Chlordane	0.005842	2.1629E-05	0.0003	5.61E-04	1.99	7.6112E-06	0.000282145	0.000289756	1.3688E-05	2.18449E-06	3.06E-04	3.82E-06	1.42E-04	6.87E-06	1.10E-06	*1.53E-04*	0.02490357	0.92316314	0.04478576	0.00714753
	Inorganics																				
X	Aluminum	14317.1429	0.38611429	47.9000	2.38E+02	41.82	1.4297192	119.9063025	121.3360217	33.5450657	0.038997543	1.55E+02	3.42E-02	2.87E+00	8.02E-01	9.33E-04	*3.70E+00*	0.00922875	0.7739881	0.21653142	0.00025173
	Antimony	10.5428571	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.02470191	6.99786E-05	2.63E-02	2.73E-02	0.00E+00	4.54E-01	1.29E-03	*4.83E-01*	0.05655435	0	0.94078049	0.00266516
X	Arsenic	721.128571	0.02458571	3.7500	38.01	0.05	0.11193	19.12415405	19.23608405	0.86169816	0.002483157	2.01E+01	2.04E+00	3.49E+02	1.57E+01	4.53E-02	*3.67E+02*	0.00556858	0.95143789	0.04286999	0.00012354
X	Barium	81.7714286	0.03734286	8.8000	7.97	4.33	0.2626624	4.011881167	4.274543567	0.19159046	0.003771629	4.47E+00	6.07E-02	9.26E-01	4.42E-02	8.71E-04	*1.03E+00*	0.0587624	0.89753151	0.0428623	0.00084378
	Beryllium	1.2557143	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00294214	6.44236E-06	3.13E-03	3.37E-04	0.00E+00	5.54E-03	1.21E-05	*5.89E-03*	0.05725926	0	0.94068095	0.00205979
	Cadmium	11.0857143	0.00043	0.0570	1.19	0.78	0.00170134	0.597522708	0.599224044	0.02597383	0.00004343	6.25E-01	2.19E-03	7.70E-01	3.35E-02	5.60E-05	*8.06E-01*	0.00272109	0.95566736	0.04154209	6.9461E-05
X	Chromium	1719	0.02578571	0.8950	32.12	7.24	0.02671396	16.16320337	16.18991733	4.027617	0.002604357	2.02E+01	3.69E-03	2.23E+00	5.57E-01	3.60E-04	*2.79E+00*	0.00132116	0.79936165	0.1991884	0.0001288
	Cobalt	26.5571429	0.00146857	0.4850	2.36	4.02	0.01447628	1.186792467	1.201268747	0.06222339	0.000148326	1.26E+00	3.60E-03	2.95E-01	1.55E-02	3.69E-05	*3.14E-01*	0.01145601	0.93918524	0.04924137	0.00011738
X	Copper	838.285714	0.02154286	54.3500	42.46	12.23	1.6222388	21.36233954	22.98457834	1.96410343	0.002175829	2.50E+01	1.33E-01	1.75E+00	1.61E-01	1.78E-04	*2.04E+00*	0.06501736	0.85617656	0.07871887	8.7205E-05
	Cyanide	0.6	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0.0014058	0.0002525	9.64E-03	1.54E-04	0.00E+00	2.71E-05	4.87E-06	*1.86E-04*	0.82802428	0	0.14578995	0.02618577
X	Iron	55680	2.401	577.5000	4609.18	2.57	17.23722	2319.117683	2336.354903	130.45824	0.242501	2.47E+03	6.72E+00	9.04E+02	5.09E+01	9.45E-02	*9.62E+02*	0.00698696	0.94003461	0.05288014	9.8296E-05
X	Lead	353.771429	0.01307286	0.5150	32.26	6.43	0.01537172	16.23278543	16.24815715	0.82888646	0.001320358	1.71E+01	2.39E-03	2.52E+00	1.29E-01	2.05E-04	*2.65E+00*	0.00090007	0.95048832	0.0485343	7.7312E-05
X	Manganese	846.285714	0.46971429	88.7000	477.23	70.76	2.6475176	240.1182571	242.7657747	1.98284743	0.047441143	2.45E+02	3.74E-02	3.39E+00	2.80E-02	6.70E-04	*3.46E+00*	0.0108152	0.98089101	0.0081	0.0001938
X	Mercury	3.7342843	0.00020393	0.0090	0.13	0.03	0.00026863	0.065818086	0.066086718	0.00874943	2.05968E-05	7.49E-02	1.04E-02	2.56E+00	3.40E-01	8.00E-04	*2.91E+00*	0.00358861	0.87925394	0.1168823	0.00027515
	Nickel	22.6142857	0.00284286	0.0675	0.58	32.17	0.00201474	0.293942614	0.295957354	0.05298527	0.000287129	3.49E-01	6.26E-05	9.14E-03	1.65E-03	8.93E-06	*1.09E-02*	0.0057691	0.84168835	0.15172038	0.00082218
X	Selenium	5.4	0.00085714	0.3300	0.46	0.16	0.00984984	0.233460118	0.243309958	0.0126522	8.65714E-05	2.56E-01	6.12E-02	1.45E+00	7.87E-02	5.38E-04	*1.59E+00*	0.03846862	0.91178003	0.04941325	0.00033811
	Silver	0.501	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.00117384	0.00002525	2.30E-03	7.58E-06	0.00E+00	8.06E-06	1.73E-07	*1.58E-05*	0.47944036	0	0.50959792	0.01096173
	Thallium	0.7	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.0016401	7.86357E-05	3.73E-03	3.35E-02	0.00E+00	2.73E-02	1.31E-03	*6.21E-02*	0.53964192	0	0.43929575	0.02106233
X	Vanadium	46.0142857	0.00187893	0.1375	1.60	0.16	0.0041041	0.805596566	0.809700666	0.10781147	0.000189772	9.18E-01	2.62E-02	5.14E+00	6.88E-01	1.21E-03	*5.85E+00*	0.00447215	0.87784122	0.11747984	0.00020679
	Zinc	2367.14286	0.12778571	28.7500	91.64	128.66	0.85813	46.10777917	46.96590917	5.54621571	0.012906357	5.25E+01	6.67E-03	3.58E-01	4.31E-02	1.00E-04	*4.08E-01*	0.01633754	0.87782488	0.10559186	0.00024572

	Mean Concentrations Compound	C_{soil} (mg/Kg)	C_{water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0.225	0.0025			9.730183192	0	0	0	0.000527175	0.0002525	7.80E-04	0.00E+00	0.00E+00	5.42E-05	2.60E-05	*8.01E-05*	0	0	0.67614711	0.32385289
	Acetone	0.31	0.0025			1367.050531	0	0	0	0.00072633	0.0002525	9.79E-04	0.00E+00	0.00E+00	5.31E-07	1.85E-07	*7.16E-07*	0	0	0	0
	cis-1,2-Dichloroethene	0	0.00058333			2504.114914	0	0	0	0	5.89167E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-08	*2.35E-08*	0	0	0	1
	Tetrachloroethene	0	0.0005			6.09153838	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06	*8.29E-06*	0	0	0	1
	Trichloroethene	0	0.0005			3.04576919	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	*1.66E-05*	0	0	0	1
	Semivolatile Organics																				
	2-Methylnaphthalene	0.2	0.0025			62.53	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	7.49E-06	4.04E-06	*1.15E-05*	0	0	0.64984052	0.35015948
	Acenaphthylene	0.2	0.0025			58.00	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	8.08E-06	4.35E-06	*1.24E-05*	0	0	0.64984052	0.35015948
	Anthracene	0.2	0.0025			435.11	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	1.08E-06	5.80E-07	*1.66E-06*	0	0	0.64984052	0.35015948
	Benzo(a)anthracene	0.215	0.0025			0.57	0	0	0	0.000503745	0.0002525	7.56E-04	0.00E+00	0.00E+00	8.91E-04	4.46E-04	*1.34E-03*	0	0	0.66611349	0.33388651
	Benzo(a)pyrene	0.25833333	0.0025		0.04	0.57	0	0.020622725	0.020622725	0.000605275	0.0002525	2.15E-02	0.00E+00	3.65E-02	1.07E-03	4.46E-04	*3.80E-02*	0	0.96006727	0.02817788	0.01175485
	Benzo(b)fluoranthene	0.68166667	0.0025		0.05	0.57	0	0.026097848	0.026097848	0.001597145	0.0002525	2.79E-02	0.00E+00	4.61E-02	2.82E-03	4.46E-04	*4.94E-02*	0	0.93381714	0.05714806	0.0090348
	Benzo(g,h,i)perylene	0.2	0.0025			58.00	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	8.08E-06	4.35E-06	*1.24E-05*	0	0	0.64984052	0.35015948
	Benzo(k)fluoranthene	0.66333333	0.0025		0.13	0.57	0	0.06641944	0.06641944	0.00155419	0.0002525	6.82E-02	0.00E+00	1.17E-01	2.75E-03	4.46E-04	*1.21E-01*	0	0.97351909	0.02277998	0.00370093
	Carbazole	0.2	0			58.00014758	0	0	0	0.0004686	0	4.69E-04	0.00E+00	0.00E+00	8.08E-06	0.00E+00	*8.08E-06*	0	0	1	0
	Chrysene	0.29166667	0.0025		0.03	0.57	0	0.017117071	0.017117071	0.000683375	0.0002525	1.81E-02	0.00E+00	3.03E-02	1.21E-03	4.46E-04	*3.19E-02*	0	0.94815943	0.03785393	0.01398664
	Dibenz(a,h)anthracene	0.2	0.0025			0.57	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	8.28E-04	4.46E-04	*1.27E-03*	0	0	0.64984052	0.35015948
	Dibenzofuran	0.2	0.0025			58.00	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	8.08E-06	4.35E-06	*1.24E-05*	0	0	0.64984052	0.35015948
	Fluoranthene	0.40333333	0.0025		0.02	54.39	0	0.00958756	0.00958756	0.00094501	0.0002525	1.08E-02	0.00E+00	1.76E-04	1.74E-05	4.64E-06	*1.98E-04*	0	0.88896595	0.08762205	0.02341199
	Fluorene	0.2	0.0025			54.39	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	8.62E-06	4.64E-06	*1.33E-05*	0	0	0.64984052	0.35015948
	Indeno(1,2,3-cd)pyrene	0.19	0.0025		0.08	0.57	0	0.040248546	0.040248546	0.00044517	0.0002525	4.09E-02	0.00E+00	7.12E-02	7.87E-04	4.46E-04	*7.24E-02*	0	0.98296131	0.01087207	0.00616663
	Naphthalene	0.2	0.0025			60.92	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	7.69E-06	4.15E-06	*1.18E-05*	0	0	0.64984052	0.35015948
	N-nitrosodiphenylamine	0	0.0025			120.62	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06	*2.09E-06*	0	0	0	0
	Phenanthrene	0.2	0.0025		0.05	58.00	0	0.02708439	0.02708439	0.0004686	0.0002525	2.78E-02	0.00E+00	4.67E-04	8.08E-06	4.35E-06	*4.79E-04*	0	0.97406627	0.01685279	0.00908094
	Pyrene	0.34166667	0.0025		0.02	58.00	0	0.010533043	0.010533043	0.000800525	0.0002525	1.16E-02	0.00E+00	1.82E-04	1.38E-05	4.35E-06	*2.00E-04*	0	0.90911283	0.06909376	0.02179342
	Pesticides and PCBs																				
	4,4'-DDD	0.0056375	0.00005	0.0006	2.91E-04	6.84	1.9252E-05	0.000146538	0.00016579	1.32087E-05	0.00000505	1.84E-04	2.82E-06	2.14E-05	1.93E-06	7.39E-07	*2.69E-05*	0.10460233	0.79619227	0.07176707	0.02743834
	4,4'-DDE	0.009275	0.00005	0.0010	4.03E-04	0.83	2.9102E-05	0.000202637	0.000231738	2.17313E-05	0.00000505	2.59E-04	3.52E-05	2.45E-04	2.63E-05	6.11E-06	*3.13E-04*	0.11257087	0.78383427	0.08406058	0.01953429
	4,4'-DDT	0.00225	0.00005	0.0011	3.61E-04	0.64	3.2087E-05	0.000181824	0.00021391	5.27175E-06	0.00000505	2.24E-04	4.99E-05	2.83E-04	8.19E-06	7.85E-06	*3.49E-04*	0.1430955	0.81087296	0.02351024	0.02252131
	Aldrin	0.000735	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	1.72211E-06	0.000002525	1.34E-05	5.66E-05	0.00E+00	1.07E-05	1.57E-05	*8.30E-05*	0.68188255	0	0.12898943	0.18912802
	alpha-Chlordane	0.0030375	2.1729E-05	0.0006	3.11E-04	1.99	1.8655E-05	0.000156414	0.000175069	7.11686E-06	2.19459E-06	1.84E-04	9.36E-06	7.85E-05	3.57E-06	1.10E-06	*9.25E-05*	0.10117691	0.84832168	0.03859888	0.01190253
	Aroclor 1248	0.0155	0.0005	0.0025		0.57	0.00007462	0	0.00007462	3.63165E-05	0.0000505	1.61E-04	1.32E-04	0.00E+00	6.42E-05	8.93E-05	*2.85E-04*	0.46222509	0	0.22495842	0.31281649
	Aroclor 1254	0.0155	0.0005	0.0195		0.15	0.00058204	0	0.000582036	3.63165E-05	0.0000505	6.69E-04	3.98E-03	0.00E+00	2.48E-04	3.45E-04	*4.57E-03*	0.87020083	0	0.05429672	0.07550245
	Aroclor 1260	0.0155	0.0005	0.0215	9.68E-04	0.28	0.00064173	0.000487073	0.001128805	3.63165E-05	0.0000505	1.22E-03	2.31E-03	1.76E-03	1.31E-04	1.82E-04	*4.38E-03*	0.52790424	0.40067842	0.02987483	0.04154252
	beta-BHC	0.00178333	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	4.17835E-06	0.000002525	1.43E-05	2.37E-06	0.00E+00	1.30E-06	7.85E-07	*4.45E-06*	0.53171205	0	0.29189449	0.17639346
	delta-BHC	0.0008	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	1.8744E-06	0.000002525	1.20E-05	5.92E-06	0.00E+00	1.46E-06	1.96E-06	*9.33E-06*	0.63370811	0	0.15606163	0.21023026
	Endosulfan I	0.00086167	0.000025	0.0006	1.42E-04	1.21	1.8655E-05	7.13442E-05	8.99992E-05	2.01889E-06	0.000002525	9.45E-05	1.55E-05	5.91E-05	1.67E-06	2.09E-06	*7.84E-05*	0.19731746	0.754621	0.02135413	0.0267074
	Endosulfan Sulfate	0.00155	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	3.63165E-06	0.00000505	3.69E-05	2.34E-05	0.00E+00	3.01E-06	4.19E-06	*3.06E-05*	0.76464846	0	0.09845069	0.13690085
	Endrin Aldehyde	0.00185	0.00005	0.0022	5.69E-04	0.04	6.5666E-05	0.000286062	0.000351727	4.33455E-06	0.00000505	3.61E-04	1.64E-03	7.15E-03	1.08E-04	1.26E-04	*9.02E-03*	0.18184283	0.79216924	0.01200334	0.01398459
	gamma-Chlordane	0.003225	2.1629E-05	0.0003	3.10E-04	1.99	7.6112E-06	0.000155754	0.000163366	7.55618E-06	2.18449E-06	1.73E-04	3.82E-06	7.82E-05	3.79E-06	1.10E-06	*8.69E-05*	0.04396857	0.89976161	0.04365047	0.01261934
	Inorganics																				
X	Aluminum	11462.5	0.38611429	47.9000	1.91E+02	41.82	1.4297192	95.99862251	97.42834171	26.8566375	0.038997543	1.24E+02	3.42E-02	2.30E+00	6.42E-01	9.33E-04	*2.97E+00*	0.01149995	0.77216499	0.21602138	0.00031368
	Antimony	13.1625	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.030839738	6.99786E-05	3.24E-02	2.73E-02	0.00E+00	5.67E-01	1.29E-03	*5.96E-01*	0.04583898	0	0.95200083	0.00216019
X	Arsenic	2517.5	0.02458571	3.7500	132.69	0.05	0.11193	66.76348675	66.87541675	3.008236275	0.002483157	6.99E+01	2.04E+00	1.22E+03	5.49E+01	4.53E-02	*1.27E+03*	0.00160161	0.95531804	0.04304482	3.5531E-05
X	Barium	105.9	0.03734286	8.8000	10.33	4.33	0.2626624	5.195680482	5.458342882	0.2481237	0.003771629	5.71E+00	6.07E-02	1.20E+00	5.73E-02	8.71E-04	*1.32E+00*	0.0459985	0.90988857	0.04345243	0.0006605
	Beryllium	1.2266667	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00287408	6.44236E-06	3.06E-03	3.37E-04	0.00E+00	5.42E-03	1.21E-05	*5.76E-03*	0.05853294	0	0.93936144	0.00210561
	Cadmium	12.8375	0.00043	0.0570	1.38	0.78	0.00170134	0.691944385	0.693645721	0.030078263	0.00004343	7.24E-01	2.19E-03	8.92E-01	3.88E-02	5.60E-05	*9.33E-01*	0.00235067	0.95603142	0.04155791	6.0005E-05
X	Chromium	1208.675	0.02578571	0.8950	22.59	7.24	0.02671396	11.36478176	11.39149572	2.831925525	0.002604357	1.42E+01	3.69E-03	1.57E+00	3.91E-01	3.60E-04	*1.97E+00*	0.00187782	0.79887258	0.19906653	0.00018307
	Cobalt	27.9375	0.00146857	0.4850	2.48	4.02	0.01447628	1.248478222	1.262954502	0.065457563	0.000148326	1.33E+00	3.60E-03	3.11E-01	1.63E-02	3.69E-05	*3.30E-01*	0.01089622	0.9397226	0.04926954	0.00011164
X	Copper	655.9	0.02154286	54.3500	33.22	12.23	1.6222388	16.71453809	18.33677689	1.5367737	0.002175829	1.99E+01	1.33E-01	1.37E+00	1.26E-01	1.78E-04	*1.62E+00*	0.08161909	0.84095231	0.07731912	0.00010947
	Cyanide	0	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	131325	2.401	577.5000	10871.06	2.57	17.23722	5469.793997	5487.031217	307.694475	0.242501	5.79E+03	6.72E+00	2.13E+03	1.20E+02	9.45E-02	*2.26E+03*	0.00297452	0.9438868	0.05309684	4.1847E-05
X	Lead	301.7	0.01307286	0.5150	27.51	6.43	0.01537172	13.84349037	13.85886209	0.7068831	0.001320358	1.46E+01	2.39E-03	2.15E+00	1.10E-01	2.05E-04	*2.26E+00*	0.00105524	0.95032801	0.04852612	9.064E-05
X	Manganese	1067.75	0.46971429	88.7000	602.11	70.76	2.6475176	302.9547406	305.6022582	2.50173825	0.047441143	3.08E+02	3.74E-02	4.28E+00	3.54E-02	6.70E-04	*4.35E+00*	0.00859161	0.9831359	0.00811854	0.00015395
X	Mercury	2.30875	0.00020393	0.0090	0.08	0.03	0.00026863	0.040692538	0.04096117	0.005409401	2.05968E-05	4.64E-02	1.04E-02	1.58E+00	2.10E-01	8.00E-04	*1.80E+00*	0.00579058	0.87716132	0.11660412	0.00044398
	Nickel	16.3375	0.00284286	0.0675	0.42	32.17	0.00201474	0.212356363	0.214371103	0.038278763	0.000287129	2.53E-01	6.26E-05	6.60E-03	1.19E-03	8.93E-06	*7.86E-03*	0.00796538	0.83956229	0.15133714	0.00113518
X	Selenium	6.2875	0.00085714	0.3300	0.54	0.16	0.00984984	0.27182972	0.28167956	0.014731613	8.65714E-05	2.96E-01	6.12E-02	1.69E+00	9.16E-02	5.38E-04	*1.84E+00*	0.03322062	0.91680198	0.04968541	0.00029198
	Silver	0.5	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.0011715	0.00002525	2.30E-03	7.58E-06	0.00E+00	8.04E-06	1.73E-07	*1.58E-05*	0.47992852	0	0.50909859	0.01097289
	Thallium	0.55	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.00128865	7.86357E-05	3.38E-03	3.35E-02	0.00E+00	2.14E-02	1.31E-03	*5.62E-02*	0.59571989	0	0.38102904	0.02325107
X	Vanadium	46.6125	0.00187893	0.1375	1.62	0.16	0.0041041	0.816069822	0.820173922	0.109213088	0.000189772	9.30E-01	2.62E-02	5.21E+00	6.97E-01	1.21E-03	*5.93E+00*	0.00441502	0.87789394	0.11748689	0.00020415
	Zinc	2127.5	0.12778571	28.7500	82.36	128.66	0.85813	41.43995784	42.29808784	4.9847325	0.012906357	4.73E+01	6.67E-03	3.22E-01	3.87E-02	1.00E-04	*3.68E-01*	0.01814392	0.8761882	0.10539499	0.00027289

Table E.1-19. Exposure Calculations for Muskrat - Station 20

	Mean Concentrations Compound	C_{soil} (mg/Kg)	C_{water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0.1075	0.0025			9.730183192	0	0	0	0.00025187	0.0002525	5.04E-04	0.00E+00	0.00E+00	2.59E-05	2.60E-05	*5.18E-05*	0	0	0.49937794	0.50062206
	Acetone	0.342	0.0025			1367.050531	0	0	0	0.00080131	0.0002525	1.05E-03	0.00E+00	0.00E+00	5.86E-07	1.85E-07	*7.71E-07*	0	0	0.76039233	0.23960767
	cis-1,2-Dichloroethene	0.562	0.00058333			2504.114914	0	0	0	0.00131677	5.89167E-05	1.38E-03	0.00E+00	0.00E+00	5.26E-07	2.35E-08	*5.49E-07*	0	0	0.95717278	0.04282722
	Tetrachloroethene	0.395	0.0005			6.09153838	0	0	0	0.00092549	0.0000505	9.76E-04	0.00E+00	0.00E+00	1.52E-04	8.29E-06	*1.60E-04*	0	0	0.9482574	0.0517426
	Trichloroethene	2.025	0.0005			3.04576919	0	0	0	0.00474458	0.0000505	4.80E-03	0.00E+00	0.00E+00	1.56E-03	1.66E-05	*1.57E-03*	0	0	0.98946836	0.01053164
	Semivolatile Organics																				
	2-Methylnaphthalene	0.013	0.0025			62.53	0	0	0	3.0459E-05	0.0002525	2.83E-04	0.00E+00	0.00E+00	4.87E-07	4.04E-06	*4.53E-06*	0	0	0.10764457	0.89235543
	Acenaphthylene	0.006	0.0025			58.00	0	0	0	1.4058E-05	0.0002525	2.67E-04	0.00E+00	0.00E+00	2.42E-07	4.35E-06	*4.60E-06*	0	0	0.05273899	0.94726101
	Anthracene	0.026	0.0025			435.11	0	0	0	6.0918E-05	0.0002525	3.13E-04	0.00E+00	0.00E+00	1.40E-07	5.80E-07	*7.20E-07*	0	0	0.19436663	0.80563337
	Benzo(a)anthracene	0.77	0.0025			0.57	0	0	0	0.00180411	0.0002525	2.06E-03	0.00E+00	0.00E+00	3.19E-03	4.46E-04	*3.64E-03*	0	0	0.87722514	0.12277486
	Benzo(a)pyrene	0.74	0.0025		0.12	0.57	0	0.059074127	0.059074127	0.00173382	0.0002525	6.11E-02	0.00E+00	1.04E-01	3.07E-03	4.46E-04	*1.08E-01*	0	0.96746961	0.02839514	0.00413525
	Benzo(b)fluoranthene	2.16125	0.0025		0.16	0.57	0	0.082744217	0.082744217	0.00506381	0.0002525	8.81E-02	0.00E+00	1.46E-01	8.95E-03	4.46E-04	*1.56E-01*	0	0.93962892	0.05750373	0.00286735
	Benzo(g,h,i)perylene	0.21	0.0025			58.00	0	0	0	0.00049203	0.0002525	7.45E-04	0.00E+00	0.00E+00	8.48E-06	4.35E-06	*1.28E-05*	0	0	0.66085987	0.33914013
	Benzo(k)fluoranthene	0.37	0.0025		0.07	0.57	0	0.037048029	0.037048029	0.00086691	0.0002525	3.82E-02	0.00E+00	6.55E-02	1.53E-03	4.46E-04	*6.75E-02*	0	0.97067107	0.02271334	0.00661559
	Carbazole	0	0			58.00014758	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0	0
	Chrysene	1.1	0.0025		0.13	0.57	0	0.06455581	0.06455581	0.0025773	0.0002525	6.74E-02	0.00E+00	1.14E-01	4.56E-03	4.46E-04	*1.19E-01*	0	0.95800587	0.03824704	0.00374709
	Dibenz(a,h)anthracene	0.097	0.0025			0.57	0	0	0	0.00022727	0.0002525	4.80E-04	0.00E+00	0.00E+00	4.02E-04	4.46E-04	*8.48E-04*	0	0	0.47370725	0.52629275
	Dibenzofuran	0	0.0025			58.00	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06	*4.35E-06*	0	0	0	1
	Fluoranthene	1.8475	0.0025		0.09	54.39	0	0.043916572	0.043916572	0.00432869	0.0002525	4.85E-02	0.00E+00	8.07E-04	7.96E-05	4.64E-06	*8.92E-04*	0	0.90553807	0.08925551	0.00520643
	Fluorene	0.036	0.0025			54.39	0	0	0	8.4348E-05	0.0002525	3.37E-04	0.00E+00	0.00E+00	1.55E-06	4.64E-06	*6.19E-06*	0	0	0.25040374	0.74959626
	Indeno(1,2,3-cd)pyrene	0.52	0.0025		0.22	0.57	0	0.110153914	0.110153914	0.00121836	0.0002525	1.12E-01	0.00E+00	1.95E-01	2.15E-03	4.46E-04	*1.97E-01*	0	0.98682318	0.01091478	0.00226204
	Naphthalene	0.014	0.0025			60.92	0	0	0	3.2802E-05	0.0002525	2.85E-04	0.00E+00	0.00E+00	5.38E-07	4.15E-06	*4.68E-06*	0	0	0.11497291	0.88502709
	N-nitrosodiphenylamine	0	0.0025			120.62	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06	*2.09E-06*	0	0	0	1
	Phenanthrene	0.59333333	0.0025		0.16	58.00	0	0.080350356	0.080350356	0.00139018	0.0002525	8.20E-02	0.00E+00	1.39E-03	2.40E-05	4.35E-06	*1.41E-03*	0	0.97996562	0.01695485	0.00307953
	Pyrene	1.48	0.0025		0.09	58.00	0	0.045626061	0.045626061	0.00346764	0.0002525	4.93E-02	0.00E+00	7.87E-04	5.98E-05	4.35E-06	*8.51E-04*	0	0.92461142	0.07027167	0.00511691
	Pesticides and PCBs																				
	4,4'-DDD	0.0201	0.00005	0.0006	1.04E-03	6.84	1.9252E-05	0.00052247	0.000541722	4.7094E-05	0.00000505	5.94E-04	2.82E-06	7.64E-05	6.89E-06	7.39E-07	*8.69E-05*	0.03241803	0.87977714	0.07930124	0.0085036
	4,4'-DDE	0.01985	0.00005	0.0010	8.62E-04	0.83	2.9102E-05	0.000433675	0.000462777	4.6509E-05	0.00000505	5.14E-04	3.52E-05	5.25E-04	5.63E-05	6.11E-06	*6.22E-04*	0.05658134	0.84317565	0.09042451	0.00981849
	4,4'-DDT	0.0046	0.00005	0.0011	7.39E-04	0.64	3.2087E-05	0.000371729	0.000403815	1.0778E-05	0.00000505	4.20E-04	4.99E-05	5.78E-04	1.68E-05	7.85E-06	*6.52E-04*	0.07646168	0.88582102	0.02568326	0.01203404
	Aldrin	0	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	0	0.000002525	0.00E+00	5.66E-05	0.00E+00	0.00E+00	1.57E-05	*7.23E-05*	0.78286369	0	0	0.21713631
	alpha-Chlordane	0.029375	2.1729E-05	0.0006	3.01E-03	1.99	1.8655E-05	0.001512642	0.001531297	6.8826E-05	2.19459E-06	1.60E-03	9.36E-06	7.59E-04	3.45E-05	1.10E-06	*8.04E-04*	0.01164252	0.94403403	0.04295382	0.00136963
	Aroclor 1248	0.028	0.0005	0.0025		0.57	0.00007462	0	0.00007462	6.5604E-05	0.0000505	1.91E-04	1.32E-04	0.00E+00	1.16E-04	8.93E-05	*3.37E-04*	0.39124599	0	0.34397349	0.26478052
	Aroclor 1254	0.00155	0.0005	0.0195		0.15	0.00058204	0	0.000582036	3.6317E-06	0.0000505	6.36E-04	3.98E-03	0.00E+00	2.48E-05	3.45E-04	*4.35E-03*	0.91490977	0	0.00570864	0.07938159
	Aroclor 1260	0.079	0.0005	0.0215	4.93E-03	0.28	0.00064173	0.002482504	0.003124236	0.0001851	0.0000505	3.36E-03	2.31E-03	8.95E-03	6.67E-04	1.82E-04	*1.21E-02*	0.19100118	0.73887717	0.05509114	0.01503051
	beta-BHC	0.00008	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	1.8744E-07	0.000002525	1.03E-05	2.37E-06	0.00E+00	5.83E-08	7.85E-07	*3.21E-06*	0.73726036	0	0.01815632	0.24458333
	delta-BHC	0.00008	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	1.8744E-07	0.000002525	1.03E-05	5.92E-06	0.00E+00	1.46E-07	1.96E-06	*8.02E-06*	0.73726036	0	0.01815632	0.24458333
	Endosulfan I	0.02669333	0.000025	0.0006	4.39E-03	1.21	1.8655E-05	0.002210152	0.002228807	6.2542E-05	0.000002525	2.29E-03	1.55E-05	1.83E-03	5.18E-05	2.09E-06	*1.90E-03*	0.00813253	0.96350171	0.027265	0.00110076
	Endosulfan Sulfate	0.000155	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	3.6317E-07	0.00000505	3.36E-05	2.34E-05	0.00E+00	3.01E-07	4.19E-06	*2.79E-05*	0.83898746	0	0.0108022	0.15021033
	Endrin Aldehyde	0.0013	0.00005	0.0022	4.00E-04	0.04	6.5666E-05	0.000201016	0.000266682	3.0459E-06	0.00000505	2.75E-04	1.64E-03	5.02E-03	7.61E-05	1.26E-04	*6.86E-03*	0.23897706	0.7315595	0.01108496	0.01837848
	gamma-Chlordane	0.00935	2.1629E-05	0.0003	8.97E-04	1.99	7.6112E-06	0.000451567	0.000459178	2.1907E-05	2.18449E-06	4.83E-04	3.82E-06	2.27E-04	1.10E-05	1.10E-06	*2.43E-04*	0.01574946	0.93439945	0.04533087	0.00452022
	Inorganics																				
X	Aluminum	22112.5	0.38611429	47.9000	3.68E+02	41.82	1.4297192	185.1925444	186.6222636	51.8095875	0.038997543	2.38E+02	3.42E-02	4.43E+00	1.24E+00	9.33E-04	*5.70E+00*	0.00599536	0.77658358	0.21725753	0.00016353
	Antimony	4.3625	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.01022134	6.99786E-05	1.18E-02	2.73E-02	0.00E+00	1.88E-01	1.29E-03	*2.17E-01*	0.12609595	0	0.8679617	0.00594235
X	Arsenic	283.125	0.02458571	3.7500	14.92	0.05	0.11193	7.508406033	7.620336033	0.33831456	0.002483157	7.96E+00	2.04E+00	1.37E+02	6.17E+00	4.53E-02	*1.45E+02*	0.01405956	0.94313276	0.04249578	0.00031191
X	Barium	91.1125	0.03734286	8.8000	8.88	4.33	0.2626624	4.470174107	4.732836507	0.21347659	0.003771629	4.95E+00	6.07E-02	1.03E+00	4.93E-02	8.71E-04	*1.14E+00*	0.0530622	0.90305002	0.04312585	0.00076193
	Beryllium	1.6375	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.00383666	6.44236E-06	4.02E-03	3.37E-04	0.00E+00	7.23E-03	1.21E-05	*7.58E-03*	0.04452497	0	0.95387333	0.0016017
X	Cadmium	16.0625	0.00043	0.0570	1.72	0.78	0.00170134	0.865772673	0.867474009	0.03763444	0.00004343	9.05E-01	2.19E-03	1.12E+00	4.85E-02	5.60E-05	*1.17E+00*	0.00187961	0.95649437	0.04157804	4.7981E-05
X	Chromium	1462.5	0.02578571	0.8950	27.33	7.24	0.02671396	13.75141648	13.77813044	3.4266375	0.002604357	1.72E+01	3.69E-03	1.90E+00	4.73E-01	3.60E-04	*2.38E+00*	0.00155247	0.79915842	0.19913776	0.00015135
	Cobalt	35.475	0.00146857	0.4850	3.15	4.02	0.01447628	1.58531597	1.59979225	0.08311793	0.000148326	1.68E+00	3.60E-03	3.94E-01	2.07E-02	3.69E-05	*4.19E-01*	0.00860117	0.94192565	0.04938505	8.8129E-05
X	Copper	1013.25	0.02154286	54.3500	51.32	12.23	1.6222388	25.82101803	27.44325683	2.37404475	0.002175829	2.98E+01	1.33E-01	2.11E+00	1.94E-01	1.78E-04	*2.44E+00*	0.05440199	0.86591115	0.0796139	7.2967E-05
	Cyanide	0	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	30325	2.401	577.5000	2510.30	2.57	17.23722	1263.06113	1280.29835	71.051475	0.242501	1.35E+03	6.72E+00	4.92E+02	2.77E+01	9.45E-02	*5.27E+02*	0.01275327	0.9344986	0.05256872	0.00017942
X	Lead	769.875	0.01307286	0.5150	70.21	6.43	0.01537172	35.32567832	35.34105004	1.80381713	0.001320358	3.71E+01	2.39E-03	5.49E+00	2.80E-01	2.05E-04	*5.77E+00*	0.00041382	0.95099069	0.04855995	3.5545E-05
X	Manganese	729.125	0.46971429	88.7000	411.16	70.76	2.6475176	206.8760246	209.5235422	1.70833988	0.047441143	2.11E+02	3.74E-02	2.92E+00	2.41E-02	6.70E-04	*2.99E+00*	0.01253089	0.97915888	0.00808569	0.00022454
X	Mercury	2.05	0.00020393	0.0090	0.07	0.03	0.00026863	0.036131977	0.036400609	0.00480315	2.05968E-05	4.12E-02	1.04E-02	1.40E+00	1.87E-01	8.00E-04	*1.60E+00*	0.00651634	0.8764716	0.11651243	0.00049963
	Nickel	42.6125	0.00284286	0.0675	1.10	32.17	0.00201474	0.553881286	0.555896026	0.09984109	0.000287129	6.56E-01	6.26E-05	1.72E-02	3.10E-03	8.93E-06	*2.04E-02*	0.00307114	0.84430003	0.15219116	0.00043768
X	Selenium	7.075	0.00085714	0.3300	0.61	0.16	0.00984984	0.305875987	0.315725827	0.01657673	8.65714E-05	3.32E-01	6.12E-02	1.90E+00	1.03E-01	5.38E-04	*2.07E+00*	0.02963346	0.92023465	0.04987144	0.00026045
	Silver	0.945	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.00221414	0.00002525	3.34E-03	7.58E-06	0.00E+00	1.52E-05	1.73E-07	*2.29E-05*	0.33027959	0	0.66216904	0.00755138
	Thallium	2.31	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.00541233	7.86357E-05	7.51E-03	3.35E-02	0.00E+00	9.00E-02	1.31E-03	*1.25E-01*	0.26842779	0	0.72109542	0.01047679
X	Vanadium	77.25	0.00187893	0.1375	2.69	0.16	0.0041041	1.352456825	1.356560925	0.18099675	0.000189772	1.54E+00	2.62E-02	8.63E+00	1.15E+00	1.21E-03	*9.81E+00*	0.0026689	0.87950517	0.11770252	0.00012341
	Zinc	2725	0.12778571	28.7500	105.49	128.66	0.85813	53.07820686	53.93633686	6.384675	0.012906357	6.03E+01	6.67E-03	4.13E-01	4.96E-02	1.00E-04	*4.69E-01*	0.01422301	0.87974076	0.10582232	0.00021392

	Mean Concentrations Compound	C_{soil} (mg/Kg)	C_{water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0	0.0025			9.730183192	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	*2.60E-05*	0	0	0	1
	Acetone	0	0.0025			1367.050531	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-07	*1.85E-07*	0	0	0	1
	cis-1,2-Dichloroethene	0.038	0.00058333			2504.114914	0	0	0	8.9034E-05	5.89167E-05	1.48E-04	0.00E+00	0.00E+00	3.56E-08	2.35E-08	*5.91E-08*	0	0	0.60178169	0.39821831
	Tetrachloroethene	0.0375	0.0005			6.09153838	0	0	0	8.7863E-05	0.0000505	1.38E-04	0.00E+00	0.00E+00	1.44E-05	8.29E-06	*2.27E-05*	0	0	0.63501671	0.36498329
	Trichloroethene	0.019	0.0005			3.04576919	0	0	0	4.4517E-05	0.0000505	9.50E-05	0.00E+00	0.00E+00	1.46E-05	1.66E-05	*3.12E-05*	0	0	0.46851616	0.53148384
	Semivolatile Organics																				
	2-Methylnaphthalene	0.14	0.0025			62.53	0	0	0	0.00032802	0.0002525	5.81E-04	0.00E+00	0.00E+00	5.25E-06	4.04E-06	*9.28E-06*	0	0	0.56504513	0.43495487
	Acenaphthylene	0.038	0.0025			58.00	0	0	0	8.9034E-05	0.0002525	3.42E-04	0.00E+00	0.00E+00	1.54E-06	4.35E-06	*5.89E-06*	0	0	0.26068854	0.73931146
	Anthracene	0.42	0.0025			435.11	0	0	0	0.00098406	0.0002525	1.24E-03	0.00E+00	0.00E+00	2.26E-06	5.80E-07	*2.84E-06*	0	0	0.79580449	0.20419551
	Benzo(a)anthracene	0.39	0.0025			0.57	0	0	0	0.00091377	0.0002525	1.17E-03	0.00E+00	0.00E+00	1.62E-03	4.46E-04	*2.06E-03*	0	0	0.78349782	0.21650218
	Benzo(a)pyrene	0.89	0.0025		0.14	0.57	0	0.071048612	0.071048612	0.00208527	0.0002525	7.34E-02	0.00E+00	1.26E-01	3.69E-03	4.46E-04	*1.30E-01*	0	0.96814436	0.02841494	0.00344069
	Benzo(b)fluoranthene	1.60666667	0.0025		0.12	0.57	0	0.061511799	0.061511799	0.00376442	0.0002525	6.55E-02	0.00E+00	1.09E-01	6.66E-03	4.46E-04	*1.16E-01*	0	0.93869985	0.05744687	0.00385327
	Benzo(g,h,i)perylene	0.71	0.0025			58.00	0	0	0	0.00166353	0.0002525	1.92E-03	0.00E+00	0.00E+00	2.87E-05	4.35E-06	*3.30E-05*	0	0	0.86821709	0.13178291
	Benzo(k)fluoranthene	0.0335	0.0025		0.01	0.57	0	0.003354349	0.003354349	7.8491E-05	0.0002525	3.69E-03	0.00E+00	5.93E-03	1.39E-04	4.46E-04	*6.52E-03*	0	0.91018723	0.02129804	0.06851473
	Carbazole	0	0			58.00014758	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0	0
	Chrysene	0.94	0.0025		0.11	0.57	0	0.055165874	0.055165874	0.00220242	0.0002525	5.76E-02	0.00E+00	9.75E-02	3.89E-03	4.46E-04	*1.02E-01*	0	0.95739524	0.03822266	0.0043821
	Dibenz(a,h)anthracene	0.24	0.0025			0.57	0	0	0	0.00056232	0.0002525	8.15E-04	0.00E+00	0.00E+00	9.94E-04	4.46E-04	*1.44E-03*	0	0	0.69011561	0.30988439
	Dibenzofuran	0	0.0025			58.00	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06	*4.35E-06*	0	0	0	1
	Fluoranthene	1.62333333	0.0025		0.08	54.39	0	0.038587948	0.038587948	0.00380347	0.0002525	4.26E-02	0.00E+00	7.09E-04	6.99E-05	4.64E-06	*7.84E-04*	0	0.90488749	0.08919138	0.00592113
	Fluorene	0.24	0.0025			54.39	0	0	0	0.00056232	0.0002525	8.15E-04	0.00E+00	0.00E+00	1.03E-05	4.64E-06	*1.50E-05*	0	0	0.69011561	0.30988439
	Indeno(1,2,3-cd)pyrene	0.62	0.0025		0.26	0.57	0	0.131337359	0.131337359	0.00145266	0.0002525	1.33E-01	0.00E+00	2.32E-01	2.57E-03	4.46E-04	*2.35E-01*	0	0.98718335	0.01091876	0.00189789
	Naphthalene	1.9	0.0025			60.92	0	0	0	0.0044517	0.0002525	4.70E-03	0.00E+00	0.00E+00	7.31E-05	4.15E-06	*7.72E-05*	0	0	0.94632456	0.05367544
	N-nitrosodiphenylamine	0	0.0025			120.62	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06	*2.09E-06*	0	0	0	1
	Phenanthrene	0.6	0.0025		0.16	58.00	0	0.081253169	0.081253169	0.0014058	0.0002525	8.29E-02	0.00E+00	1.40E-03	2.42E-05	4.35E-06	*1.43E-03*	0	0.97999915	0.01695543	0.00304542
	Pyrene	1.44	0.0025		0.09	58.00	0	0.044392925	0.044392925	0.00337392	0.0002525	4.80E-02	0.00E+00	7.65E-04	5.82E-05	4.35E-06	*8.28E-04*	0	0.92448002	0.07026168	0.0052583
	Pesticides and PCBs																				
	4,4'-DDD	0.03	0.00005	0.0006	1.55E-03	6.84	1.9252E-05	0.000779805	0.000799057	0.00007029	0.00000505	8.74E-04	2.82E-06	1.14E-04	1.03E-05	7.39E-07	*1.28E-04*	0.0220174	0.8918204	0.08038679	0.00577541
	4,4'-DDE	0.031	0.00005	0.0010	1.35E-03	0.83	2.9102E-05	0.000677276	0.000706378	7.2633E-05	0.00000505	7.84E-04	3.52E-05	8.19E-04	8.79E-05	6.11E-06	*9.48E-04*	0.03711675	0.86380551	0.09263692	0.00644082
	4,4'-DDT	0.0044	0.00005	0.0011	7.07E-04	0.64	3.2087E-05	0.000355566	0.000387653	1.0309E-05	0.00000505	4.03E-04	4.99E-05	5.53E-04	1.60E-05	7.85E-06	*6.26E-04*	0.07961694	0.88227205	0.02558037	0.01253064
	Aldrin	0.0008	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	1.8744E-06	0.000002525	1.35E-05	5.66E-05	0.00E+00	1.17E-05	1.57E-05	*8.40E-05*	0.67419189	0	0.13881319	0.18699493
	alpha-Chlordane	0.05033333	2.1729E-05	0.0006	5.15E-03	1.99	1.8655E-05	0.002591874	0.002610529	0.00011793	2.19459E-06	2.73E-03	9.36E-06	1.30E-03	5.92E-05	1.10E-06	*1.37E-03*	0.0068317	0.9491768	0.04318782	0.00080369
	Aroclor 1248	0.24	0.0005	0.0025		0.57	0.00007462	0	0.00007462	0.00056232	0.0000505	6.87E-04	1.32E-04	0.00E+00	9.94E-04	8.93E-05	*1.22E-03*	0.10854766	0	0.81799139	0.07346096
	Aroclor 1254	0.0016	0.0005	0.0195		0.15	0.00058204	0	0.000582036	3.7488E-06	0.0000505	6.36E-04	3.98E-03	0.00E+00	2.56E-05	3.45E-04	*4.35E-03*	0.91474132	0	0.0058917	0.07936698
	Aroclor 1260	0.42	0.0005	0.0215	2.62E-02	0.28	0.00064173	0.013198121	0.013839853	0.00098406	0.0000505	1.49E-02	2.31E-03	4.76E-02	3.55E-03	1.82E-04	*5.36E-02*	0.04314335	0.88730365	0.06615791	0.00339509
	beta-BHC	0.0008	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	1.8744E-06	0.000002525	1.20E-05	2.37E-06	0.00E+00	5.83E-07	7.85E-07	*3.73E-06*	0.63370811	0	0.15606163	0.21023026
	delta-BHC	0.0018	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	4.2174E-06	0.000002525	1.44E-05	5.92E-06	0.00E+00	3.28E-06	1.96E-06	*1.12E-05*	0.53026549	0	0.29382094	0.17591357
	Endosulfan I	0.03545	0.000025	0.0006	5.83E-03	1.21	1.8655E-05	0.002935185	0.00295384	8.3059E-05	0.000002525	3.04E-03	1.55E-05	2.43E-03	6.89E-05	2.09E-06	*2.52E-03*	0.00613767	0.96570425	0.02732733	0.00083075
	Endosulfan Sulfate	0.0016	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	3.7488E-06	0.00000505	3.70E-05	2.34E-05	0.00E+00	3.11E-06	4.19E-06	*3.07E-05*	0.76222775	0	0.10130479	0.13646745
	Endrin Aldehyde	0.009	0.00005	0.0022	2.77E-03	0.04	6.5666E-05	0.001391652	0.001457317	2.1087E-05	0.00000505	1.48E-03	1.64E-03	3.48E-02	5.27E-04	1.26E-04	*3.71E-02*	0.04426534	0.93811565	0.0142148	0.00340422
	gamma-Chlordane	0.033	2.1629E-05	0.0003	3.17E-03	1.99	7.6112E-06	0.001593767	0.001601378	7.7319E-05	2.18449E-06	1.68E-03	3.82E-06	8.00E-04	3.88E-05	1.10E-06	*8.43E-04*	0.00452812	0.94817318	0.04599908	0.00129961
	Inorganics																				
X	Aluminum	13647.5	0.38611429	47.9000	2.27E+02	41.82	1.4297192	114.2980328	115.727752	31.9760925	0.038997543	1.48E+02	3.42E-02	2.73E+00	7.65E-01	9.33E-04	*3.53E+00*	0.00967708	0.77362823	0.21643074	0.00026396
	Antimony	2	0.00069286	0.0498		0.05	0.00148494	0	0.001484938	0.004686	6.99786E-05	6.24E-03	2.73E-02	0.00E+00	8.62E-02	1.29E-03	*1.15E-01*	0.23793588	0	0.75085125	0.01121287
X	Arsenic	175.25	0.02458571	3.7500	9.24	0.05	0.11193	4.64758731	4.75951731	0.20941148	0.002483157	4.97E+00	2.04E+00	8.48E+01	3.82E+00	4.53E-02	*9.07E+01*	0.02251473	0.93486264	0.04212314	0.00049949
X	Barium	127.575	0.03734286	8.8000	12.44	4.33	0.2626624	6.259102337	6.521764737	0.29890823	0.003771629	6.82E+00	6.07E-02	1.45E+00	6.90E-02	8.71E-04	*1.58E+00*	0.03848847	0.91715923	0.04379964	0.00055266
	Beryllium	0.9	6.3786E-05	0.0060		0.53	0.00017909	0	0.000179088	0.0021087	6.44236E-06	2.29E-03	3.37E-04	0.00E+00	3.97E-03	1.21E-05	*4.32E-03*	0.07806016	0	0.91913177	0.00280807
X	Cadmium	17.675	0.00043	0.0570	1.89	0.78	0.00170134	0.952686816	0.954388152	0.04141253	0.00004343	9.96E-01	2.19E-03	1.23E+00	5.34E-02	5.60E-05	*1.28E+00*	0.00170844	0.9566626	0.04158535	4.3611E-05
X	Chromium	2399.75	0.02578571	0.8950	44.85	7.24	0.02671396	22.56407638	22.59079034	5.62261425	0.002604357	2.82E+01	3.69E-03	3.12E+00	7.77E-01	3.60E-04	*3.90E+00*	0.00094677	0.79969057	0.19927036	9.2301E-05
	Cobalt	23.125	0.00146857	0.4850	2.05	4.02	0.01447628	1.033415978	1.047892258	0.05418188	0.000148326	1.10E+00	3.60E-03	2.57E-01	1.35E-02	3.69E-05	*2.74E-01*	0.01313372	0.93757478	0.04915693	0.00013457
X	Copper	457	0.02154286	54.3500	23.15	12.23	1.6222388	11.6458971	13.2681359	1.070751	0.002175829	1.43E+01	1.33E-01	9.52E-01	8.75E-02	1.78E-04	*1.17E+00*	0.11311845	0.81206653	0.0746633	0.00015172
	Cyanide	0	0.0025	0.2675		51.90	0.00798434	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	21950	2.401	577.5000	1817.02	2.57	17.23722	914.2355091	931.4727291	51.42885	0.242501	9.83E+02	6.72E+00	3.56E+02	2.00E+01	9.45E-02	*3.83E+02*	0.01753275	0.92991	0.05231059	0.00024666
X	Lead	526.75	0.01307286	0.5150	48.04	6.43	0.01537172	24.16989908	24.1852708	1.23417525	0.001320358	2.54E+01	2.39E-03	3.76E+00	1.92E-01	2.05E-04	*3.95E+00*	0.00060469	0.95079348	0.04854988	5.194E-05
	Manganese	207.75	0.46971429	88.7000	117.15	70.76	2.6475176	58.94530308	61.59282068	0.48675825	0.047441143	6.21E+01	3.74E-02	8.33E-01	6.88E-03	6.70E-04	*8.78E-01*	0.04261459	0.9487869	0.00783489	0.00076362
X	Mercury	9.5375	0.00020393	0.0090	0.33	0.03	0.00026863	0.168101822	0.168370454	0.02234636	2.05968E-05	1.91E-01	1.04E-02	6.53E+00	8.68E-01	8.00E-04	*7.41E+00*	0.00140839	0.8813259	0.11715773	0.00010799
	Nickel	32.7	0.00284286	0.0675	0.84	32.17	0.00201474	0.425037678	0.427052418	0.0766161	0.000287129	5.04E-01	6.26E-05	1.32E-02	2.38E-03	8.93E-06	*1.57E-02*	0.00399785	0.84340295	0.15202945	0.00056975
	Selenium	3.2333333	0.00085714	0.3300	0.28	0.16	0.00984984	0.139787847	0.149637687	0.0075757	8.65714E-05	1.57E-01	6.12E-02	8.69E-01	4.71E-02	5.38E-04	*9.78E-01*	0.0626182	0.88867059	0.04816085	0.00055036
	Silver	0.3	0.00025	0.0370		145.71	0.00110438	0	0.001104376	0.0007029	0.00002525	1.83E-03	7.58E-06	0.00E+00	4.82E-06	1.73E-07	*1.26E-05*	0.6026523	0	0.38356891	0.01377879
	Thallium	0.22	0.00077857	0.0675		0.06	0.00201474	0	0.00201474	0.00051546	7.86357E-05	2.61E-03	3.35E-02	0.00E+00	8.57E-03	1.31E-03	*4.34E-02*	0.77227554	0	0.19758239	0.03014207
X	Vanadium	53.625	0.00187893	0.1375	1.87	0.16	0.0041041	0.938841388	0.942945488	0.12564338	0.000189772	1.07E+00	2.62E-02	5.99E+00	8.01E-01	1.21E-03	*6.82E+00*	0.00383999	0.87842455	0.1175579	0.00017756
	Zinc	3562.5	0.12778571	28.7500	137.91	128.66	0.85813	69.39123374	70.24936374	8.3469375	0.012906357	7.86E+01	6.67E-03	5.39E-01	6.49E-02	1.00E-04	*6.11E-01*	0.01091641	0.88273672	0.10618269	0.00016418

Table E.1-21. Exposure Calculatioins for Muskrat - Station AM

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Aluminum	7500	0.14033333	52.7	1.25E+02	41.82	1.5729896	62.81262105	64.38561065	17.5725	0.014173667	8.20E+01	3.76E-02	1.50E+00	4.20E-01	3.39E-04	*1.96E+00*	0.01918929	0.76626657	0.21437124	0.00017291
	Antimony	2	0.0006	0.1		0.05	0.0016416	0	0.00164164	0.004686	0.0000606	6.39E-03	3.02E-02	0.00E+00	8.62E-02	1.11E-03	*1.17E-01*	0.25697845	0	0.73353537	0.00948618
X	Arsenic	121	0.01268333	2.7	6.38	0.05	0.0805896	3.208890525	3.289480125	0.1445865	0.001281017	3.44E+00	1.47E+00	5.85E+01	2.64E+00	2.34E-02	*6.27E+01*	0.02345894	0.93408028	0.04208789	0.00037289
	Barium	58.4	0.03208333	10.0	5.69	4.33	0.2977338	2.865228897	3.162962697	0.1368312	0.003240417	3.30E+00	6.88E-02	6.62E-01	3.16E-02	7.48E-04	*7.63E-01*	0.09013948	0.86745357	0.04142591	0.00098104
	Beryllium	0.64	4.5667E-05	0.0		0.53	0.000194	0	0.000194012	0.0014995	4.61234E-06	1.70E-03	3.66E-04	0.00E+00	2.83E-03	8.69E-06	*3.20E-03*	0.11424942	0	0.88303448	0.0027161
	Cadmium	3.9	0.00056	0.1	0.42	0.78	0.0032982	0.210210952	0.213509156	0.0091377	0.00005656	2.23E-01	4.25E-03	2.71E-01	1.18E-02	7.29E-05	*2.87E-01*	0.01480985	0.94390538	0.0410308	0.00025397
	Chromium	322	0.0062	2.2	6.02	7.24	0.0656656	3.027662296	3.093327896	0.754446	0.0006262	3.85E+00	9.07E-03	4.18E-01	1.04E-01	8.65E-05	*5.32E-01*	0.01706309	0.78673273	0.19604147	0.00016272
	Cobalt	20.3	0.000985	0.5	1.80	4.02	0.0161179	0.907171648	0.923289568	0.0475629	0.000099485	9.71E-01	4.01E-03	2.26E-01	1.18E-02	2.47E-05	*2.41E-01*	0.01660012	0.93431157	0.04898584	0.00010246
	Copper	197	0.00718333	62.3	9.98	12.23	1.858038	5.020222601	6.878260601	0.461571	0.000725517	7.34E+00	1.52E-01	4.10E-01	3.77E-02	5.93E-05	*6.00E-01*	0.25311948	0.68390212	0.06287956	9.8837E-05
	Cyanide	0.85	0.0025	0.2		51.90	0.0067158	0	0.0067158	0.0019916	0.0002525	8.96E-03	1.29E-04	0.00E+00	3.84E-05	4.87E-06	*1.73E-04*	0.7495438	0	0.22227493	0.02818128
X	Iron	23400	1.20933333	342.5	1937.05	2.57	10.22294	974.6291987	984.8521387	54.8262	0.122142667	1.04E+03	3.99E+00	3.80E+02	2.14E+01	4.76E-02	*4.05E+02*	0.00983164	0.93732328	0.05272762	0.00011747
X	Lead	150	0.00330833	1.0	13.68	6.43	0.0289526	6.882742976	6.911695536	0.35145	0.000334142	7.26E+00	4.50E-03	1.07E+00	5.46E-02	5.19E-05	*1.13E+00*	0.00398605	0.94758205	0.0483859	4.6003E-05
X	Manganese	1140	0.5925	120.0	642.86	70.76	3.58176	323.4543707	327.0361307	2.67102	0.0598425	3.30E+02	5.06E-02	4.57E+00	3.77E-02	8.46E-04	*4.66E+00*	0.01086149	0.98085732	0.00809972	0.00018147
X	Mercury	1.9	0.00011583	0.0	0.07	0.03	0.0004179	0.033488174	0.033906046	0.0044517	1.16992E-05	3.84E-02	1.62E-02	1.30E+00	1.73E-01	4.55E-04	*1.49E+00*	0.01089075	0.87278234	0.11602201	0.00030491
	Nickel	18	0.00163333	0.1	0.47	32.17	0.0030594	0.233965694	0.237025114	0.042174	0.000164967	2.79E-01	9.51E-05	7.27E-03	1.31E-03	5.13E-06	*8.69E-03*	0.01095137	0.83749383	0.15096429	0.00059051
	Selenium	1.1	0.00075	0.4	0.09	0.16	0.01179	0.047556691	0.059346651	0.0025773	0.00007575	6.20E-02	7.33E-02	2.96E-01	1.60E-02	4.71E-04	*3.85E-01*	0.19016156	0.7670471	0.04156956	0.00122178
	Silver	0.21	0.000375	0.0		145.71	0.000582	0	0.000582036	0.000492	0.000037875	1.11E-03	3.99E-06	0.00E+00	3.38E-06	2.60E-07	*7.63E-06*	0.52344144	0	0.4424965	0.03406206
	Thallium	0.44	0.00085	0.1		0.06	0.0039549	0	0.00395486	0.0010309	0.00008585	5.07E-03	6.58E-02	0.00E+00	1.71E-02	1.43E-03	*8.43E-02*	0.77980058	0	0.20327193	0.0169275
X	Vanadium	26.9	0.00093333	0.2	0.94	0.16	0.0047011	0.470952603	0.475653663	0.0630267	9.42667E-05	5.39E-01	3.00E-02	3.00E+00	4.02E-01	6.01E-04	*3.44E+00*	0.00872547	0.874118	0.11698157	0.00017496
	Zinc	941	0.05855	27.8	36.43	128.66	0.828282	18.32902483	19.15730683	2.204763	0.00591355	2.14E+01	6.44E-03	1.42E-01	1.71E-02	4.60E-05	*1.66E-01*	0.03876276	0.85777981	0.10318068	0.00027675

Table E.1-22. Exposure Calculatioins for Muskrat - Station AS

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 3	Reach 3																	
	Inorganics																				
X	Aluminum	17250	0.129	58.3	2.87E+02	41.82	1.7411333	144.4690284	146.2101617	40.41675	0.013029	1.87E+02	4.16E-02	3.45E+00	9.67E-01	3.12E-04	*4.46E+00*	0.00932884	0.77405205	0.21654931	6.9808E-05
	Antimony	2.525	0.0013	0.0		0.05	0.001368	0	0.001368032	0.0059161	0.0001313	7.42E-03	2.52E-02	0.00E+00	1.09E-01	2.41E-03	*1.36E-01*	0.18448512	0	0.7978085	0.01770638
X	Arsenic	116	0.00695	1.5	6.11	0.05	0.0457669	3.076291743	3.122058676	0.271788	0.00070195	3.39E+00	8.35E-01	5.61E+01	4.96E+00	1.28E-02	*6.19E+01*	0.01348248	0.90624471	0.08006602	0.00020679
X	Barium	102.425	0.0339	14.0	9.99	4.33	0.4168771	5.02518955	5.442066618	0.2399818	0.0034239	5.69E+00	9.63E-02	1.16E+00	5.54E-02	7.91E-04	*1.31E+00*	0.07332321	0.88386493	0.04220965	0.00060222
	Beryllium	0.9975	0.00005	0.0		0.53	0.0001189	0	0.000118894	0.0023371	0.00000505	2.46E-03	2.24E-04	0.00E+00	4.40E-03	9.52E-06	*4.64E-03*	0.04830938	0	0.94963868	0.00205194
	Cadmium	11.95	0.0000495	0.0	1.28	0.78	0.0013879	0.644107918	0.64549585	0.0279989	4.9995E-06	6.73E-01	1.79E-03	8.30E-01	3.61E-02	6.45E-06	*8.68E-01*	0.00206078	0.95635962	0.04157218	7.4232E-06
X	Chromium	747.25	0.0031	0.9	13.96	7.24	0.0265647	7.026151088	7.052715808	1.7508068	0.0003131	8.80E+00	3.67E-03	9.71E-01	2.42E-01	4.33E-05	*1.22E+00*	0.0030174	0.7980784	0.19886863	3.5564E-05
	Cobalt	20.35	0.00048	0.4	1.81	4.02	0.0118397	0.909406061	0.921245768	0.0476801	0.00004848	9.69E-01	2.94E-03	2.26E-01	1.19E-02	1.21E-05	*2.41E-01*	0.0122188	0.93852444	0.04920672	5.0032E-05
X	Copper	510.25	0.0036	41.2	25.84	12.23	1.2297376	13.00288621	14.23262381	1.1955158	0.0003636	1.54E+01	1.01E-01	1.06E+00	9.77E-02	2.97E-05	*1.26E+00*	0.07970557	0.84278339	0.07748747	2.3567E-05
	Cyanide	2.65	0.0025	0.2		51.90	0.0073625	0	0.007362508	0.006209	0.0002525	1.38E-02	1.42E-04	0.00E+00	1.20E-04	4.87E-06	*2.66E-04*	0.53259044	0	0.44914417	0.01826539
X	Iron	28525	1.92	277.3	2361.29	2.57	8.2778453	1188.089654	1196.367499	66.834075	0.19392	1.26E+03	3.23E+00	4.63E+02	2.61E+01	7.56E-02	*4.93E+02*	0.00655206	0.94039409	0.05290036	0.00015349
X	Lead	572.5	0.0043	1.0	52.21	6.43	0.030246	26.26913569	26.29938166	1.3413675	0.0004343	2.76E+01	4.70E-03	4.08E+00	2.09E-01	6.75E-05	*4.30E+00*	0.00109424	0.95036219	0.04852786	1.5712E-05
X	Manganese	381.25	0.585	98.3	214.99	70.76	2.9340584	108.1727884	111.1068468	0.8932688	0.059085	1.12E+02	4.15E-02	1.53E+00	1.26E-02	8.35E-04	*1.58E+00*	0.02618311	0.96531822	0.0079714	0.00052727
X	Mercury	3.075	0.00022	0.0	0.11	0.03	0.000194	0.054197966	0.054391978	0.0072047	0.00002222	6.16E-02	7.54E-03	2.11E+00	2.80E-01	8.63E-04	*2.39E+00*	0.00314858	0.87956692	0.1169239	0.0003606
	Nickel	37.2	0.0017	0.1	0.96	32.17	0.0029351	0.483529102	0.486464154	0.0871596	0.0001717	5.74E-01	9.12E-05	1.50E-02	2.71E-03	5.34E-06	*1.78E-02*	0.00511515	0.84268549	0.15190012	0.00029924
	Selenium	1.875	0.00075	0.4	0.16	0.16	0.0128346	0.081062541	0.093897181	0.0043931	0.00007575	9.84E-02	7.98E-02	5.04E-01	2.73E-02	4.71E-04	*6.12E-01*	0.13047834	0.82409059	0.04466099	0.00077008
	Silver	0.6825	0.00037	0.0		145.71	0.0008158	0	0.000815844	0.0015991	0.00003737	2.45E-03	5.60E-06	0.00E+00	1.10E-05	2.56E-07	*1.68E-05*	0.33268377	0	0.65207755	0.01523868
	Thallium	1.075	0.00085	0.1		0.06	0.0019401	0	0.00194012	0.0025187	0.00008585	4.54E-03	3.23E-02	0.00E+00	4.19E-02	1.43E-03	*7.56E-02*	0.42689773	0	0.55421211	0.01889016
X	Vanadium	65.8	0.0019	0.2	2.29	0.16	0.005895	1.151995587	1.157890567	0.1541694	0.0001919	1.31E+00	3.76E-02	7.35E+00	9.83E-01	1.22E-03	*8.37E+00*	0.00449226	0.87787689	0.11748461	0.00014624
	Zinc	2187.5	0.0189	23.9	84.68	128.66	0.7143621	42.6086523	43.32301443	5.1253125	0.0019089	4.85E+01	5.55E-03	3.31E-01	3.98E-02	1.48E-05	*3.77E-01*	0.01474424	0.87943127	0.10578509	3.9399E-05

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0	0.0025			9.730183192	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	*2.60E-05*	0	0	0	1
	Acetone	0	0.0025			1367.050531	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-07	*1.85E-07*	0	0	0	1
	cis-1,2-Dichloroethene	0.417	0.00058333			2504.114914	0	0	0	0.000977031	5.89167E-05	1.04E-03	0.00E+00	0.00E+00	3.90E-07	2.35E-08	*4.14E-07*	0	0	0.94312776	0.05687224
	Tetrachloroethene	0.1545	0.0005			6.09153838	0	0	0	0.000361994	0.0000505	4.12E-04	0.00E+00	0.00E+00	5.94E-05	8.29E-06	*6.77E-05*	0	0	0.87757383	0.12242617
	Trichloroethene	0.053	0.0005			3.04576919	0	0	0	0.000124179	0.0000505	1.75E-04	0.00E+00	0.00E+00	4.08E-05	1.66E-05	*5.74E-05*	0	0	0.71089828	0.28910172
	Semivolatile Organics																				
	2-Methylnaphthalene	0.013	0.0025			62.53	0	0	0	0.000030459	0.0002525	2.83E-04	0.00E+00	0.00E+00	4.87E-07	4.04E-06	*4.53E-06*	0	0	0.10764457	0.89235543
	Acenaphthylene	0.019	0.0025			58.00	0	0	0	0.000044517	0.0002525	2.97E-04	0.00E+00	0.00E+00	7.68E-07	4.35E-06	*5.12E-06*	0	0	0.14988031	0.85011969
	Anthracene	0.069	0.0025			435.11	0	0	0	0.000161667	0.0002525	4.14E-04	0.00E+00	0.00E+00	3.72E-07	5.80E-07	*9.52E-07*	0	0	0.39034254	0.60965746
	Benzo(a)anthracene	0.56	0.0025			0.57	0	0	0	0.00131208	0.0002525	1.56E-03	0.00E+00	0.00E+00	2.32E-03	4.46E-04	*2.77E-03*	0	0	0.83861484	0.16138516
	Benzo(a)pyrene	1	0.0025		0.16	0.57	0	0.079829901	0.079829901	0.002343	0.0002525	8.24E-02	0.00E+00	1.41E-01	4.14E-03	4.46E-04	*1.46E-01*	0	0.96851092	0.0284257	0.00306338
	Benzo(b)fluoranthene	1.5	0.0025		0.11	0.57	0	0.057428028	0.057428028	0.0035145	0.0002525	6.12E-02	0.00E+00	1.02E-01	6.21E-03	4.46E-04	*1.08E-01*	0	0.93844271	0.05743114	0.00412615
	Benzo(g,h,i)perylene	0.64	0.0025			58.00	0	0	0	0.00149952	0.0002525	1.75E-03	0.00E+00	0.00E+00	2.59E-05	4.35E-06	*3.02E-05*	0	0	0.85588064	0.14411936
	Benzo(k)fluoranthene	0.72	0.0025		0.14	0.57	0	0.072093462	0.072093462	0.00168696	0.0002525	7.40E-02	0.00E+00	1.27E-01	2.98E-03	4.46E-04	*1.31E-01*	0	0.97380274	0.02278662	0.00341064
	Carbazole	0	0			58.00014758	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*				
	Chrysene	0.85	0.0025		0.10	0.57	0	0.049884035	0.049884035	0.00199155	0.0002525	5.21E-02	0.00E+00	8.82E-02	3.52E-03	4.46E-04	*9.22E-02*	0	0.95695123	0.03820493	0.00484384
	Dibenz(a,h)anthracene	0.32	0.0025			0.57	0	0	0	0.00074976	0.0002525	1.00E-03	0.00E+00	0.00E+00	1.33E-03	4.46E-04	*1.77E-03*	0	0	0.74806936	0.25193064
	Dibenzofuran	0	0.0025			58.00	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06	*4.35E-06*	0	0	0	1
	Fluoranthene	1.2	0.0025		0.06	54.39	0	0.028524972	0.028524972	0.0028116	0.0002525	3.16E-02	0.00E+00	5.24E-04	5.17E-05	4.64E-06	*5.81E-04*	0	0.90300127	0.08900546	0.00799327
	Fluorene	0.047	0.0025			54.39	0	0	0	0.000110121	0.0002525	3.63E-04	0.00E+00	0.00E+00	2.02E-06	4.64E-06	*6.67E-06*	0	0	0.3036807	0.6963193
	Indeno(1,2,3-cd)pyrene	0.74	0.0025		0.31	0.57	0	0.156757493	0.156757493	0.00173382	0.0002525	1.59E-01	0.00E+00	2.77E-01	3.07E-03	4.46E-04	*2.81E-01*	0	0.98748726	0.01092213	0.00159061
	Naphthalene	0.026	0.0025			60.92	0	0	0	0.000060918	0.0002525	3.13E-04	0.00E+00	0.00E+00	1.00E-06	4.15E-06	*5.15E-06*	0	0	0.19436663	0.80563337
	N-nitrosodiphenylamine	0	0.0025			120.62	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06	*2.09E-06*	0	0	0	1
	Phenanthrene	0.57	0.0025		0.15	58.00	0	0.077190511	0.077190511	0.00133551	0.0002525	7.88E-02	0.00E+00	1.33E-03	2.30E-05	4.35E-06	*1.36E-03*	0	0.97984209	0.01695272	0.00320519
	Pyrene	1	0.0025		0.06	58.00	0	0.03082842	0.03082842	0.002343	0.0002525	3.34E-02	0.00E+00	5.32E-04	4.04E-05	4.35E-06	*5.76E-04*	0	0.92234603	0.0700995	0.00755447
	Pesticides and PCBs																				
	4,4'-DDD	0.017	0.00005	0.0006	8.78E-04	6.84	1.9252E-05	0.00044189	0.000461142	0.000039831	0.00000505	5.06E-04	2.82E-06	6.46E-05	5.83E-06	7.39E-07	*7.40E-05*	0.03804564	0.87326071	0.07871386	0.00997979
	4,4'-DDE	0.004	0.00005	0.0010	1.74E-04	0.83	2.91018E-05	8.73905E-05	0.000116492	0.000009372	0.00000505	1.31E-04	3.52E-05	1.06E-04	1.13E-05	6.11E-06	*1.58E-04*	0.22229659	0.66753972	0.07158883	0.03857486
	4,4'-DDT	0.0013	0.00005	0.0011	2.09E-04	0.64	3.20866E-05	0.000105054	0.00013714	3.0459E-06	0.00000505	1.45E-04	4.99E-05	1.63E-04	4.73E-06	7.85E-06	*2.26E-04*	0.220927	0.72333001	0.02097204	0.03477094
	Aldrin	0.000085	0.000025	0.0003		0.16	9.10364E-06	0	9.10364E-06	1.99155E-07	0.000002525	1.18E-05	5.66E-05	0.00E+00	1.24E-06	1.57E-05	*7.35E-05*	0.76968192	0	0.01683788	0.2134802
	alpha-Chlordane	0.0024	2.1729E-05	0.0006	2.46E-04	1.99	0.000018655	0.000123586	0.000142241	5.6232E-06	2.19459E-06	1.50E-04	9.36E-06	6.20E-05	2.82E-06	1.10E-06	*7.53E-05*	0.12431792	0.82358392	0.03747331	0.01462486
	Aroclor 1248	0.028	0.0005	0.0025		0.57	0.00007462	0	0.00007462	0.000065604	0.0000505	1.91E-04	1.32E-04	0.00E+00	1.16E-04	8.93E-05	*3.37E-04*	0.39124599	0	0.34397349	0.26478052
	Aroclor 1254	0.00165	0.0005	0.0195		0.15	0.000582036	0	0.000582036	3.86595E-06	0.0000505	6.36E-04	3.98E-03	0.00E+00	2.64E-05	3.45E-04	*4.35E-03*	0.91457294	0	0.0060747	0.07935237
	Aroclor 1260	0.058	0.0005	0.0215	3.62E-03	0.28	0.000641732	0.001822598	0.00246433	0.000135894	0.0000505	2.65E-03	2.31E-03	6.57E-03	4.90E-04	1.82E-04	*9.55E-03*	0.24209691	0.68758493	0.05126676	0.0190514
	beta-BHC	0.000085	0.000025	0.0003		3.22	7.61124E-06	0	7.61124E-06	1.99155E-07	0.000002525	1.03E-05	2.37E-06	0.00E+00	6.19E-08	7.85E-07	*3.21E-06*	0.73642468	0	0.01926922	0.2443061
	delta-BHC	0.000085	0.000025	0.0003		1.29	7.61124E-06	0	7.61124E-06	1.99155E-07	0.000002525	1.03E-05	5.92E-06	0.00E+00	1.55E-07	1.96E-06	*8.03E-06*	0.73642468	0	0.01926922	0.2443061
	Endosulfan I	0.000085	0.000025	0.0006	1.40E-05	1.21	0.000018655	7.03782E-06	2.56928E-05	1.99155E-07	0.000002525	2.84E-05	1.55E-05	5.83E-06	1.65E-07	2.09E-06	*2.36E-05*	0.65647379	0.24766257	0.00700831	0.08885534
	Endosulfan Sulfate	0.000165	0.00005	0.0009		1.21	2.82064E-05	0	2.82064E-05	3.86595E-07	0.00000505	3.36E-05	2.34E-05	0.00E+00	3.21E-07	4.19E-06	*2.79E-05*	0.83840317	0	0.01149111	0.15010572
	Endrin Aldehyde	0.0018	0.00005	0.0022	5.53E-04	0.04	6.56656E-05	0.00027833	0.000343996	4.2174E-06	0.00000505	3.53E-04	1.64E-03	6.95E-03	1.05E-04	1.26E-04	*8.82E-03*	0.18588288	0.78788343	0.0119384	0.01429529
	gamma-Chlordane	0.0017	2.1629E-05	0.0003	1.63E-04	1.99	7.61124E-06	8.21031E-05	8.97144E-05	3.9831E-06	2.18449E-06	9.59E-05	3.82E-06	4.12E-05	2.00E-06	1.10E-06	*4.81E-05*	0.07938136	0.85629383	0.04154171	0.0227831
	Inorganics																				
X	Aluminum	18558.3333	0.38611429	47.9	3.09E+02	41.82	1.4297192	155.4263412	156.8560604	43.482175	0.038997543	2.00E+02	3.42E-02	3.72E+00	1.04E+00	9.33E-04	*4.79E+00*	0.00713514	0.77566867	0.21700157	0.00019462
	Antimony	22.4416667	0.00069286	0.0		0.05	0.001484938	0	0.001484938	0.052580825	6.99786E-05	5.41E-02	2.73E-02	0.00E+00	9.67E-01	1.29E-03	*9.95E-01*	0.0274299	0	0.97127745	0.00129265
X	Arsenic	1238.66667	0.02458571	3.8	65.29	0.05	0.11193	32.84913827	32.96106827	2.902196	0.002483157	3.59E+01	2.04E+00	5.99E+02	5.29E+01	4.53E-02	*6.54E+02*	0.0031208	0.91589164	0.08091832	6.9235E-05
X	Barium	129.283333	0.03734286	8.8	12.61	4.33	0.2626624	6.342916822	6.605579222	0.30291085	0.003771629	6.91E+00	6.07E-02	1.46E+00	7.00E-02	8.71E-04	*1.60E+00*	0.03799949	0.91763262	0.04382225	0.00054564
	Beryllium	1.3916667	6.3786E-05	0.0		0.53	0.000179088	0	0.000179088	0.003260675	6.44236E-06	3.45E-03	3.37E-04	0.00E+00	6.14E-03	1.21E-05	*6.49E-03*	0.05196672	0	0.94616387	0.00186941
	Cadmium	10.575	0.00043	0.1	1.13	0.78	0.001701336	0.569995082	0.571696418	0.024777225	0.00004343	5.97E-01	2.19E-03	7.35E-01	3.19E-02	5.60E-05	*7.69E-01*	0.00285212	0.95553859	0.04153649	7.2806E-05
X	Chromium	1518.16667	0.02578571	0.9	28.37	7.24	0.02671396	14.27483222	14.30154618	3.5570645	0.002604357	1.79E+01	3.69E-03	1.97E+00	4.91E-01	3.60E-04	*2.47E+00*	0.00149564	0.79920835	0.1991502	0.00014581
	Cobalt	39.8416667	0.00146857	0.5	3.54	4.02	0.01447628	1.780454701	1.794930981	0.093349025	0.000148326	1.89E+00	3.60E-03	4.43E-01	2.32E-02	3.69E-05	*4.70E-01*	0.00766578	0.94282355	0.04943212	7.8544E-05
X	Copper	898.666667	0.02154286	54.4	45.52	12.23	1.6222388	22.9010493	24.5232881	2.105576	0.002175829	2.66E+01	1.33E-01	1.87E+00	1.72E-01	1.78E-04	*2.18E+00*	0.06091534	0.85993823	0.07906473	8.1703E-05
	Cyanide	0	0.0025	0.3		51.90	0.00798434	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	111725	2.401	577.5	9248.57	2.57	17.23722	4653.437916	4670.675136	261.771675	0.242501	4.93E+03	6.72E+00	1.81E+03	1.02E+02	9.45E-02	*1.92E+03*	0.00349449	0.9433876	0.05306875	4.9162E-05
X	Lead	606.75	0.01307286	0.5	55.33	6.43	0.01537172	27.84069534	27.85606706	1.42161525	0.001320358	2.93E+01	2.39E-03	4.33E+00	2.21E-01	2.05E-04	*4.55E+00*	0.00052501	0.95087581	0.04855409	4.5096E-05
X	Manganese	1035.5	0.46971429	88.7	583.93	70.76	2.6475176	293.8043867	296.4519043	2.4261765	0.047441143	2.99E+02	3.74E-02	4.15E+00	3.43E-02	6.70E-04	*4.22E+00*	0.00885678	0.98286819	0.00811632	0.00015871
X	Mercury	6.6	0.00020393	0.0	0.23	0.03	0.000268632	0.116327342	0.116595974	0.0154638	2.05968E-05	1.32E-01	1.04E-02	4.52E+00	6.01E-01	8.00E-04	*5.13E+00*	0.00203385	0.88073149	0.11707871	0.00015594
	Nickel	36.1833333	0.00284286	0.1	0.93	32.17	0.00201474	0.470314372	0.472329112	0.08477755	0.000287129	5.57E-01	6.26E-05	1.46E-02	2.64E-03	8.93E-06	*1.73E-02*	0.00361457	0.84377397	0.15209633	0.00051513
X	Selenium	9.9	0.00085714	0.3	0.85	0.16	0.00984984	0.428010216	0.437860056	0.0231957	8.65714E-05	4.61E-01	6.12E-02	2.66E+00	1.44E-01	5.38E-04	*2.87E+00*	0.02135965	0.92815209	0.05030052	0.00018773
	Silver	1.48	0.00025	0.0		145.71	0.001104376	0	0.001104376	0.00346764	0.00002525	4.60E-03	7.58E-06	0.00E+00	2.38E-05	1.73E-07	*3.16E-05*	0.24022452	0	0.75428309	0.00549239
	Thallium	8.2083333	0.00077857	0.1		0.06	0.00201474	0	0.00201474	0.019232125	7.86357E-05	2.13E-02	3.35E-02	0.00E+00	3.20E-01	1.31E-03	*3.55E-01*	0.09447562	0	0.90183697	0.0036874
X	Vanadium	80.5666667	0.00187893	0.1	2.80	0.16	0.0041041	1.410523472	1.414627572	0.1887677	0.000189772	1.60E+00	2.62E-02	9.00E+00	1.20E+00	1.21E-03	*1.02E+01*	0.00255933	0.87960628	0.11771605	0.00011834
	Zinc	2101.66667	0.12778571	28.8	81.36	128.66	0.85813	40.93676994	41.79489994	4.924205	0.012906357	4.67E+01	6.67E-03	3.18E-01	3.83E-02	1.00E-04	*3.63E-01*	0.01836279	0.8759899	0.10537113	0.00027618

Table E.1-24. Exposure Calculatioins for Muskrat - Station CB-01

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Aluminum	11886	0.14033333	52.7	1.98E+02	41.82	1.5729896	99.54544184	101.1184314	27.848898	0.014173667	1.29E+02	3.76E-02	2.38E+00	6.66E-01	3.39E-04	*3.08E+00*	0.01219547	0.77178075	0.21591389	0.00010989
	Antimony	1.244	0.0006	0.1		0.05	0.0016416	0	0.00164164	0.0029147	0.0000606	4.62E-03	3.02E-02	0.00E+00	5.36E-02	1.11E-03	*8.49E-02*	0.35556946	0	0.63130494	0.0131256
X	Arsenic	41.265	0.01268333	2.7	2.17	0.05	0.0805896	1.094337748	1.174927348	0.0493088	0.001281017	1.23E+00	1.47E+00	2.00E+01	8.99E-01	2.34E-02	*2.24E+01*	0.06575967	0.89295996	0.04023508	0.00104529
	Barium	40.225	0.03208333	10.0	3.92	4.33	0.2977338	1.973524527	2.271258327	0.0942472	0.003240417	2.37E+00	6.88E-02	4.56E-01	2.18E-02	7.48E-04	*5.47E-01*	0.12569259	0.83315163	0.03978779	0.00136799
	Beryllium	1.007	4.5667E-05	0.0		0.53	0.000194	0	0.000194012	0.0023594	4.61234E-06	2.56E-03	3.66E-04	0.00E+00	4.45E-03	8.69E-06	*4.82E-03*	0.07584444	0	0.92235247	0.00180308
	Cadmium	5.17	0.00056	0.1	0.55	0.78	0.0032982	0.278664263	0.281962467	0.0121133	0.00005656	2.94E-01	4.25E-03	3.59E-01	1.56E-02	7.29E-05	*3.79E-01*	0.01121333	0.94741117	0.0411832	0.00019229
	Chromium	217.25	0.0062	2.2	4.06	7.24	0.0656656	2.042731782	2.108397382	0.5090168	0.0006262	2.62E+00	9.07E-03	2.82E-01	7.03E-02	8.65E-05	*3.62E-01*	0.02508197	0.78025222	0.19442663	0.00023919
	Cobalt	6.044	0.000985	0.5	0.54	4.02	0.0161179	0.270095834	0.286213754	0.0141611	0.000099485	3.00E-01	4.01E-03	6.72E-02	3.52E-03	2.47E-05	*7.47E-02*	0.05364159	0.8988982	0.04712912	0.00033109
X	Copper	389.02	0.00718333	62.3	19.70	12.23	1.858038	9.913538053	11.77157605	0.9114739	0.000725517	1.27E+01	1.52E-01	8.10E-01	7.45E-02	5.93E-05	*1.04E+00*	0.14648935	0.78159205	0.0718614	5.72E-05
	Cyanide	0	0.0025	0.2		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	11059	1.20933333	342.5	915.46	2.57	10.22294	460.6164235	470.8393635	25.911237	0.122142667	4.97E+02	3.99E+00	1.80E+02	1.01E+01	4.76E-02	*1.94E+02*	0.02057456	0.92703097	0.05214864	0.00024582
X	Lead	317.41	0.00330833	1.0	28.95	6.43	0.0289526	14.56434299	14.59329555	0.7436916	0.000334142	1.53E+01	4.50E-03	2.26E+00	1.16E-01	5.19E-05	*2.38E+00*	0.00188772	0.94960148	0.04848902	2.1786E-05
X	Manganese	338.345	0.5925	120.0	190.80	70.76	3.58176	95.99927109	99.58103109	0.7927423	0.0598425	1.00E+02	5.06E-02	1.36E+00	1.12E-02	8.46E-04	*1.42E+00*	0.03566296	0.955848	0.0078932	0.00059584
X	Mercury	1.532	0.00011583	0.0	0.05	0.03	0.0004179	0.027002044	0.027419916	0.0035895	1.16992E-05	3.10E-02	1.62E-02	1.05E+00	1.39E-01	4.55E-04	*1.21E+00*	0.01347058	0.87044146	0.11571082	0.00037714
	Nickel	9.175	0.00163333	0.1	0.24	32.17	0.0030594	0.119257514	0.122316934	0.021497	0.000164967	1.44E-01	9.51E-05	3.71E-03	6.68E-04	5.13E-06	*4.48E-03*	0.02124908	0.8282984	0.14930675	0.00114577
X	Selenium	3.71	0.00075	0.4	0.32	0.16	0.01179	0.160395747	0.172185707	0.0086925	0.00007575	1.81E-01	7.33E-02	9.97E-01	5.40E-02	4.71E-04	*1.13E+00*	0.06515446	0.88638968	0.04803724	0.00041861
	Silver	0.3265	0.000375	0.0		145.71	0.000582	0	0.000582036	0.000765	0.000037875	1.38E-03	3.99E-06	0.00E+00	5.25E-06	2.60E-07	*9.50E-06*	0.42027279	0	0.55237867	0.02734854
	Thallium	1.0455	0.00085	0.1		0.06	0.0039549	0	0.00395486	0.0024496	0.00008585	6.49E-03	6.58E-02	0.00E+00	4.07E-02	1.43E-03	*1.08E-01*	0.60934779	0	0.37742481	0.0132274
X	Vanadium	53.55	0.00093333	0.2	1.86	0.16	0.0047011	0.937528323	0.942229383	0.1254677	9.42667E-05	1.07E+00	3.00E-02	5.98E+00	8.00E-01	6.01E-04	*6.81E+00*	0.0044026	0.87800708	0.11750203	8.8282E-05
	Zinc	422.06	0.05855	27.8	16.34	128.66	0.828282	8.220986418	9.049268418	0.9888866	0.00591355	1.00E+01	6.44E-03	6.39E-02	7.69E-03	4.60E-05	*7.81E-02*	0.08246479	0.81849167	0.09845478	0.00058876

Table E.1-25. Exposure Calculatioins for Muskrat - Station CB-02

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Aluminum	4438.5	0.14033333	52.7	7.39E+01	41.82	1.5729896	37.17250914	38.74549874	10.399406	0.014173667	4.92E+01	3.76E-02	8.89E-01	2.49E-01	3.39E-04	*1.18E+00*	0.03199795	0.75616775	0.21154598	0.00028832
	Antimony	1.539	0.0006	0.1		0.05	0.0016416	0	0.00164164	0.0036059	0.0000606	5.31E-03	3.02E-02	0.00E+00	6.63E-02	1.11E-03	*9.76E-02*	0.30926975	0	0.67931378	0.01141648
X	Arsenic	27.105	0.01268333	2.7	1.43	0.05	0.0805896	0.718817997	0.799407597	0.0323886	0.001281017	8.33E-01	1.47E+00	1.31E+01	5.91E-01	2.34E-02	*1.52E+01*	0.09673725	0.86284681	0.03887824	0.00153769
X	Barium	78.5	0.03208333	10.0	7.65	4.33	0.2977338	3.851377883	4.149111683	0.1839255	0.003240417	4.34E+00	6.88E-02	8.89E-01	4.25E-02	7.48E-04	*1.00E+00*	0.06866115	0.88817604	0.04241553	0.00074728
	Beryllium	0.287	4.5667E-05	0.0		0.53	0.000194	0	0.000194012	0.0006724	4.61234E-06	8.71E-04	3.66E-04	0.00E+00	1.27E-03	8.69E-06	*1.64E-03*	0.22272956	0	0.77197539	0.00529505
	Cadmium	3.091	0.00056	0.1	0.33	0.78	0.0032982	0.166605655	0.169903859	0.0072422	0.00005656	1.77E-01	4.25E-03	2.15E-01	9.34E-03	7.29E-05	*2.28E-01*	0.01861261	0.94019853	0.04086967	0.00031918
	Chromium	106.06	0.0062	2.2	1.98	7.24	0.0656656	0.997248022	1.062913622	0.2484986	0.0006262	1.31E+00	9.07E-03	1.38E-01	3.43E-02	8.65E-05	*1.81E-01*	0.05004854	0.76007533	0.18939886	0.00047727
	Cobalt	4.235	0.000985	0.5	0.38	4.02	0.0161179	0.189254775	0.205372695	0.0099226	0.000099485	2.15E-01	4.01E-03	4.71E-02	2.47E-03	2.47E-05	*5.36E-02*	0.07482967	0.8786414	0.04606706	0.00046187
	Copper	75.275	0.00718333	62.3	3.81	12.23	1.858038	1.918260184	3.776298184	0.1763693	0.000725517	3.95E+00	1.52E-01	1.57E-01	1.44E-02	5.93E-05	*3.23E-01*	0.46998565	0.48521869	0.04461214	0.00018352
	Cyanide	0	0.0025	0.2		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	5913.5	1.20933333	342.5	489.52	2.57	10.22294	246.3021268	256.5250668	13.855331	0.122142667	2.71E+02	3.99E+00	9.60E+01	5.40E+00	4.76E-02	*1.05E+02*	0.0377924	0.91053536	0.0512207	0.00045154
	Lead	118.855	0.00330833	1.0	10.84	6.43	0.0289526	5.453656109	5.482608669	0.2784773	0.000334142	5.76E+00	4.50E-03	8.48E-01	4.33E-02	5.19E-05	*8.96E-01*	0.00502525	0.94658193	0.04833483	5.7996E-05
	Manganese	55.99	0.5925	120.0	31.57	70.76	3.58176	15.88614931	19.46790931	0.1311846	0.0598425	1.97E+01	5.06E-02	2.24E-01	1.85E-03	8.46E-04	*2.78E-01*	0.182195	0.80808794	0.00667302	0.00304404
	Mercury	0.2405	0.00011583	0.0	0.01	0.03	0.0004179	0.004238898	0.00465677	0.0005635	1.16992E-05	5.23E-03	1.62E-02	1.65E-01	2.19E-02	4.55E-04	*2.03E-01*	0.0798691	0.81019301	0.10770179	0.0022361
	Nickel	8.275	0.00163333	0.1	0.21	32.17	0.0030594	0.107559229	0.110618649	0.0193883	0.000164967	1.30E-01	9.51E-05	3.34E-03	6.03E-04	5.13E-06	*4.05E-03*	0.02350291	0.82628582	0.14894397	0.0012673
	Selenium	1.4485	0.00075	0.4	0.12	0.16	0.01179	0.062623515	0.074413475	0.0033938	0.00007575	7.79E-02	7.33E-02	3.89E-01	2.11E-02	4.71E-04	*4.84E-01*	0.15138029	0.80407106	0.04357604	0.00097261
	Silver	0	0.000375	0.0		145.71	0.000582	0	0.000582036	0	0.000037875	6.20E-04	3.99E-06	0.00E+00	0.00E+00	2.60E-07	*4.25E-06*	0.93890252	0	0	0.06109748
	Thallium	0.428	0.00085	0.1		0.06	0.0039549	0	0.00395486	0.0010028	0.00008585	5.04E-03	6.58E-02	0.00E+00	1.67E-02	1.43E-03	*8.39E-02*	0.78414772	0	0.19883042	0.01702186
X	Vanadium	26.65	0.00093333	0.2	0.93	0.16	0.0047011	0.46657572	0.47127678	0.062441	9.42667E-05	5.34E-01	3.00E-02	2.98E+00	3.98E-01	6.01E-04	*3.40E+00*	0.00880658	0.87404503	0.1169718	0.00017659
	Zinc	249.95	0.05855	27.8	9.68	128.66	0.828282	4.868586351	5.696868351	0.5856329	0.00591355	6.29E+00	6.44E-03	3.78E-02	4.55E-03	4.60E-05	*4.89E-02*	0.13171555	0.77421521	0.09312885	0.00094039

Table E.1-26. Exposure Calculatioins for Muskrat - Station CB-03

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Aluminum	9264.1667	0.14033333	52.7	1.54E+02	41.82	1.5729896	77.58754536	79.16053496	21.705943	0.014173667	1.01E+02	3.76E-02	1.86E+00	5.19E-01	3.39E-04	*2.41E+00*	0.01559258	0.76910235	0.21516458	0.0001405
	Antimony	1.5320833	0.0006	0.1		0.05	0.0016416	0	0.00164164	0.0035897	0.0000606	5.29E-03	3.02E-02	0.00E+00	6.60E-02	1.11E-03	*9.73E-02*	0.31021685	0	0.67833171	0.01145144
X	Arsenic	272.48333	0.01268333	2.7	14.36	0.05	0.0805896	7.226191624	7.306781224	0.3255985	0.001281017	7.63E+00	1.47E+00	1.32E+02	5.94E+00	2.34E-02	*1.39E+02*	0.01055714	0.94662205	0.042653	0.00016781
	Barium	51.5125	0.03208333	10.0	5.02	4.33	0.2977338	2.527313417	2.825047217	0.1206938	0.003240417	2.95E+00	6.88E-02	5.84E-01	2.79E-02	7.48E-04	*6.81E-01*	0.10096157	0.85701232	0.04092728	0.00109883
	Beryllium	0.5408333	4.5667E-05	0.0		0.53	0.000194	0	0.000194012	0.0012672	4.61234E-06	1.47E-03	3.66E-04	0.00E+00	2.39E-03	8.69E-06	*2.76E-03*	0.13235941	0	0.86449394	0.00314664
	Cadmium	7.3891667	0.00056	0.1	0.79	0.78	0.0032982	0.39827789	0.401576094	0.0173128	0.00005656	4.19E-01	4.25E-03	5.13E-01	2.23E-02	7.29E-05	*5.40E-01*	0.00787263	0.95066761	0.04132475	0.00013501
	Chromium	456.72917	0.0062	2.2	8.54	7.24	0.0656656	4.294477259	4.360142859	1.0701164	0.0006262	5.43E+00	9.07E-03	5.93E-01	1.48E-01	8.65E-05	*7.50E-01*	0.01209114	0.79075084	0.19704272	0.0001153
	Cobalt	19.245833	0.000985	0.5	1.71	4.02	0.0161179	0.860062774	0.876180694	0.045093	0.000099485	9.21E-01	4.01E-03	2.14E-01	1.12E-02	2.47E-05	*2.29E-01*	0.01749337	0.93345759	0.04894107	0.00010797
	Copper	269.00417	0.00718333	62.3	13.62	12.23	1.858038	6.855130952	8.713168952	0.6302768	0.000725517	9.34E+00	1.52E-01	5.60E-01	5.15E-02	5.93E-05	*7.64E-01*	0.1988446	0.73362643	0.06745133	7.7644E-05
	Cyanide	0	0.0025	0.2		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	30995.833	1.20933333	342.5	2565.83	2.57	10.22294	1291.001889	1301.224829	72.623237	0.122142667	1.37E+03	3.99E+00	5.03E+02	2.83E+01	4.76E-02	*5.36E+02*	0.00744044	0.93961418	0.05285649	8.8898E-05
X	Lead	196.40833	0.00330833	1.0	17.91	6.43	0.0289526	9.012187176	9.041139736	0.4601847	0.000334142	9.50E+00	4.50E-03	1.40E+00	7.15E-02	5.19E-05	*1.48E+00*	0.00304711	0.94848569	0.04843204	3.5167E-05
X	Manganese	283.05	0.5925	120.0	159.61	70.76	3.58176	80.31031546	83.89207546	0.6631862	0.0598425	8.46E+01	5.06E-02	1.13E+00	9.37E-03	8.46E-04	*1.20E+00*	0.04233003	0.94912506	0.00783768	0.00070723
	Mercury	1.2177917	0.00011583	0.0	0.04	0.03	0.0004179	0.021464011	0.021881883	0.0028533	1.16992E-05	2.47E-02	1.62E-02	8.34E-01	1.11E-01	4.55E-04	*9.62E-01*	0.01688585	0.86734252	0.11529887	0.00047275
	Nickel	25.55	0.00163333	0.1	0.66	32.17	0.0030594	0.332101305	0.335160725	0.0598637	0.000164967	3.95E-01	9.51E-05	1.03E-02	1.86E-03	5.13E-06	*1.23E-02*	0.00774166	0.84035997	0.15148093	0.00041744
X	Selenium	3.7809091	0.00075	0.4	0.32	0.16	0.01179	0.163461386	0.175251346	0.0088587	0.00007575	1.84E-01	7.33E-02	1.02E+00	5.51E-02	4.71E-04	*1.15E+00*	0.06401124	0.8874811	0.04809639	0.00041127
	Silver	0.51375	0.000375	0.0		145.71	0.000582	0	0.000582036	0.0012037	0.000037875	1.82E-03	3.99E-06	0.00E+00	8.26E-06	2.60E-07	*1.25E-05*	0.31916391	0	0.66006704	0.02076905
	Thallium	0.7054545	0.00085	0.1		0.06	0.0039549	0	0.00395486	0.0016529	0.00008585	5.69E-03	6.58E-02	0.00E+00	2.75E-02	1.43E-03	*9.47E-02*	0.69461624	0	0.2903054	0.01507836
X	Vanadium	47.029167	0.00093333	0.2	1.64	0.16	0.0047011	0.823364627	0.828065687	0.1101893	9.42667E-05	9.38E-01	3.00E-02	5.25E+00	7.03E-01	6.01E-04	*5.99E+00*	0.00500993	0.8774607	0.11742891	0.00010046
	Zinc	1147.75	0.05855	27.8	44.43	128.66	0.828282	22.35615117	23.18443317	2.6891783	0.00591355	2.59E+01	6.44E-03	1.74E-01	2.09E-02	4.60E-05	*2.01E-01*	0.0320053	0.86385477	0.10391142	0.0002285

Table E.1-27. Exposure Calculatioins for Muskrat - Station CB-04

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Aluminum	9437	0.14033333	52.7	1.57E+02	41.82	1.5729896	79.03502731	80.60801691	22.110891	0.014173667	1.03E+02	3.76E-02	1.89E+00	5.29E-01	3.39E-04	*2.46E+00*	0.01531142	0.76932402	0.21522659	0.00013797
	Antimony	3.552	0.0006	0.1		0.05	0.0016416	0	0.00164164	0.0083223	0.0000606	1.00E-02	3.02E-02	0.00E+00	1.53E-01	1.11E-03	*1.84E-01*	0.16376154	0	0.83019332	0.00604514
X	Arsenic	111.5	0.01268333	2.7	5.88	0.05	0.0805896	2.956952839	3.037542439	0.1332347	0.001281017	3.17E+00	1.47E+00	5.39E+01	2.43E+00	2.34E-02	*5.79E+01*	0.02540609	0.93218746	0.0420026	0.00040384
	Barium	61.155	0.03208333	10.0	5.96	4.33	0.2977338	3.000395089	3.298128889	0.1432862	0.003240417	3.44E+00	6.88E-02	6.93E-01	3.31E-02	7.48E-04	*7.95E-01*	0.08643355	0.87102908	0.04159666	0.00094071
	Beryllium	0.622	4.5667E-05	0.0		0.53	0.000194	0	0.000194012	0.0014573	4.61234E-06	1.66E-03	3.66E-04	0.00E+00	2.75E-03	8.69E-06	*3.12E-03*	0.1171591	0	0.88005562	0.00278528
	Cadmium	3.954	0.00056	0.1	0.42	0.78	0.0032982	0.213121566	0.21641977	0.0092642	0.00005656	2.26E-01	4.25E-03	2.75E-01	1.19E-02	7.29E-05	*2.91E-01*	0.0146106	0.94409961	0.04103925	0.00025055
	Chromium	167.14	0.0062	2.2	3.12	7.24	0.0656656	1.57156359	1.63722919	0.391609	0.0006262	2.03E+00	9.07E-03	2.17E-01	5.41E-02	8.65E-05	*2.80E-01*	0.03235612	0.77437356	0.19296176	0.00030855
	Cobalt	8.765	0.000985	0.5	0.78	4.02	0.0161179	0.391692586	0.407810506	0.0205364	0.000099485	4.28E-01	4.01E-03	9.74E-02	5.11E-03	2.47E-05	*1.07E-01*	0.03761946	0.9142161	0.04793224	0.0002322
	Copper	184.6	0.00718333	62.3	9.35	12.23	1.858038	4.704228895	6.562266895	0.4325178	0.000725517	7.00E+00	1.52E-01	3.85E-01	3.54E-02	5.93E-05	*5.72E-01*	0.26560436	0.67246402	0.06182791	0.00010371
	Cyanide	0	0.0025	0.2		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	23967	1.20933333	342.5	1983.98	2.57	10.22294	998.2452139	1008.468154	56.154681	0.122142667	1.06E+03	3.99E+00	3.89E+02	2.19E+01	4.76E-02	*4.15E+02*	0.0096013	0.93754395	0.05274003	0.00011472
X	Lead	208.46	0.00330833	1.0	19.01	6.43	0.0289526	9.565177338	9.594129898	0.4884218	0.000334142	1.01E+01	4.50E-03	1.49E+00	7.59E-02	5.19E-05	*1.57E+00*	0.00287146	0.94865473	0.04844067	3.3139E-05
X	Manganese	403.9	0.5925	120.0	227.76	70.76	3.58176	114.5993161	118.1810761	0.9463377	0.0598425	1.19E+02	5.06E-02	1.62E+00	1.34E-02	8.46E-04	*1.68E+00*	0.03005153	0.96150645	0.00793992	0.00050209
	Mercury	0.727	0.00011583	0.0	0.03	0.03	0.0004179	0.012813633	0.013231505	0.0017034	1.16992E-05	1.49E-02	1.62E-02	4.98E-01	6.62E-02	4.55E-04	*5.81E-01*	0.02795773	0.85729617	0.11396337	0.00078273
	Nickel	41.315	0.00163333	0.1	1.07	32.17	0.0030594	0.537016259	0.540075679	0.096801	0.000164967	6.37E-01	9.51E-05	1.67E-02	3.01E-03	5.13E-06	*1.98E-02*	0.00480254	0.84298448	0.15195402	0.00025896
	Selenium	3.024	0.00075	0.4	0.26	0.16	0.01179	0.130737666	0.142527626	0.0070852	0.00007575	1.50E-01	7.33E-02	8.13E-01	4.41E-02	4.71E-04	*9.31E-01*	0.07876324	0.87339757	0.04733314	0.00050605
	Silver	1.317	0.000375	0.0		145.71	0.000582	0	0.000582036	0.0030857	0.000037875	3.71E-03	3.99E-06	0.00E+00	2.12E-05	2.60E-07	*2.54E-05*	0.15706752	0	0.83271158	0.0102209
	Thallium	1.1295	0.00085	0.1		0.06	0.0039549	0	0.00395486	0.0026464	0.00008585	6.69E-03	6.58E-02	0.00E+00	4.40E-02	1.43E-03	*1.11E-01*	0.59141379	0	0.39574812	0.0128381
X	Vanadium	55.305	0.00093333	0.2	1.92	0.16	0.0047011	0.968254041	0.972955101	0.1295796	9.42667E-05	1.10E+00	3.00E-02	6.18E+00	8.27E-01	6.01E-04	*7.03E+00*	0.0042635	0.87813222	0.11751878	8.5493E-05
	Zinc	1397.45	0.05855	27.8	54.10	128.66	0.828282	27.21986796	28.04814996	3.2742254	0.00591355	3.13E+01	6.44E-03	2.12E-01	2.54E-02	4.60E-05	*2.43E-01*	0.02643879	0.86885907	0.10451338	0.00018876

Table E.1-28. Exposure Calculatioins for Muskrat - Station CB-06

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Aluminum	7194.5	0.14033333	52.7000	1.20E+02	41.82	1.5729896	60.25405362	61.82704322	16.856714	0.014173667	7.87E+01	3.76E-02	1.44E+00	4.03E-01	3.39E-04	*1.88E+00*	0.01998769	0.76563708	0.21419513	0.0001801
	Antimony	1.72	0.0006	0.0550		0.05	0.0016416	0	0.00164164	0.00403	0.0000606	5.73E-03	3.02E-02	0.00E+00	7.41E-02	1.11E-03	*1.05E-01*	0.28638917	0	0.70303897	0.01057186
X	Arsenic	98.04	0.01268333	2.7000	5.17	0.05	0.0805896	2.599996918	2.680586518	0.1171509	0.001281017	2.80E+00	1.47E+00	4.74E+01	2.14E+00	2.34E-02	*5.11E+01*	0.02879209	0.92889595	0.04185429	0.00045767
	Barium	40.295	0.03208333	9.9750	3.93	4.33	0.2977338	1.976958877	2.274692677	0.0944112	0.003240417	2.37E+00	6.88E-02	4.57E-01	2.18E-02	7.48E-04	*5.48E-01*	0.12550194	0.83333557	0.03979658	0.00136591
	Beryllium	0.273	4.5667E-05	0.0065		0.53	0.000194	0	0.000194012	0.0006396	4.61234E-06	8.38E-04	3.66E-04	0.00E+00	1.21E-03	8.69E-06	*1.58E-03*	0.23144517	0	0.76305258	0.00550225
	Cadmium	8.583	0.00056	0.1105	0.92	0.78	0.0032982	0.462625796	0.465924	0.02011	0.00005656	4.86E-01	4.25E-03	5.96E-01	2.59E-02	7.29E-05	*6.27E-01*	0.00678516	0.95172765	0.04137083	0.00011636
	Chromium	280.29	0.0062	2.2000	5.24	7.24	0.0656656	2.635476599	2.701142199	0.6567195	0.0006262	3.36E+00	9.07E-03	3.64E-01	9.07E-02	8.65E-05	*4.64E-01*	0.01955213	0.78472119	0.19554022	0.00018645
	Cobalt	9.18	0.000985	0.5400	0.82	4.02	0.0161179	0.410238213	0.426356133	0.0215087	0.000099485	4.48E-01	4.01E-03	1.02E-01	5.35E-03	2.47E-05	*1.11E-01*	0.03598036	0.91578315	0.0480144	0.00022208
	Copper	179.6	0.00718333	62.2500	9.10	12.23	1.858038	4.576812077	6.434850077	0.4208028	0.000725517	6.86E+00	1.52E-01	3.74E-01	3.44E-02	5.93E-05	*5.61E-01*	0.27099409	0.66752618	0.06137392	0.00010582
	Cyanide	0	0.0025	0.2250		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	12693	1.20933333	342.5000	1050.72	2.57	10.22294	528.6738641	538.8968041	29.739699	0.122142667	5.69E+02	3.99E+00	2.06E+02	1.16E+01	4.76E-02	*2.22E+02*	0.01797413	0.92952233	0.05228879	0.00021475
X	Lead	136.96	0.00330833	0.9700	12.49	6.43	0.0289526	6.284403186	6.313355746	0.3208973	0.000334142	6.63E+00	4.50E-03	9.77E-01	4.99E-02	5.19E-05	*1.03E+00*	0.00436388	0.94721842	0.04836733	5.0364E-05
	Manganese	78.815	0.5925	120.0000	44.44	70.76	3.58176	22.36233002	25.94409002	0.1846635	0.0598425	2.62E+01	5.06E-02	3.16E-01	2.61E-03	8.46E-04	*3.70E-01*	0.13676793	0.85389572	0.0070513	0.00228506
	Mercury	0.231	0.00011583	0.0140	0.01	0.03	0.0004179	0.004071457	0.004489329	0.0005412	1.16992E-05	5.04E-03	1.62E-02	1.58E-01	2.10E-02	4.55E-04	*1.96E-01*	0.08287393	0.8074665	0.10733934	0.00232022
	Nickel	18.625	0.00163333	0.1025	0.48	32.17	0.0030594	0.242089503	0.245148923	0.0436384	0.000164967	2.89E-01	9.51E-05	7.53E-03	1.36E-03	5.13E-06	*8.98E-03*	0.01058798	0.83781833	0.15102278	0.00057091
	Selenium	1.39	0.00075	0.3950	0.12	0.16	0.01179	0.060094364	0.071884324	0.0032568	0.00007575	7.52E-02	7.33E-02	3.74E-01	2.02E-02	4.71E-04	*4.68E-01*	0.15674627	0.79894822	0.04329841	0.00100709
	Silver	0.1295	0.000375	0.0195		145.71	0.000582	0	0.000582036	0.0003034	0.000037875	9.23E-04	3.99E-06	0.00E+00	2.08E-06	2.60E-07	*6.34E-06*	0.63036652	0	0.32861346	0.04102003
	Thallium	3.215	0.00085	0.1325		0.06	0.0039549	0	0.00395486	0.0075327	0.00008585	1.16E-02	6.58E-02	0.00E+00	1.25E-01	1.43E-03	*1.92E-01*	0.34171818	0	0.65086398	0.00741784
X	Vanadium	53.025	0.00093333	0.1575	1.85	0.16	0.0047011	0.928336869	0.933037929	0.1242376	9.42667E-05	1.06E+00	3.00E-02	5.92E+00	7.92E-01	6.01E-04	*6.74E+00*	0.00444599	0.87796804	0.11749681	8.9152E-05
	Zinc	1420.5	0.05855	27.7500	54.99	128.66	0.828282	27.66884141	28.49712341	3.3282315	0.00591355	3.18E+01	6.44E-03	2.15E-01	2.59E-02	4.60E-05	*2.47E-01*	0.02602102	0.86923465	0.10455856	0.00018578

Table E.1-29. Exposure Calculatioins for Muskrat - Station NRSE

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Aluminum	6652	0.38611429	47.900	1.11E+02	41.82	1.4297192	55.71060736	57.14032656	15.585636	0.038997543	7.28E+01	3.42E-02	1.33E+00	3.73E-01	9.33E-04	*1.74E+00*	0.01964846	0.7656241	0.2141915	0.00053594
	Antimony	0.92	0.00069286	0.050		0.05	0.0014849	0	0.001484938	0.0021556	6.99786E-05	3.71E-03	2.73E-02	0.00E+00	3.96E-02	1.29E-03	*6.82E-02*	0.40020142	0	0.58093885	
X	Arsenic	165.8	0.02458571	3.750	8.74	0.05	0.11193	4.396975612	4.508905612	0.1981194	0.002483157	4.71E+00	2.04E+00	8.02E+01	3.61E+00	4.53E-02	*8.59E+01*	0.02376681	0.93363796	0.04206796	0.00052726
	Barium	41.18	0.03734286	8.800	4.02	4.33	0.2626624	2.020378869	2.283041269	0.0964847	0.003771629	2.38E+00	6.07E-02	4.67E-01	2.23E-02	8.71E-04	*5.50E-01*	0.11020965	0.84772411	0.04048371	0.00158253
	Beryllium	0.502	6.3786E-05	0.006		0.53	0.0001791	0	0.000179088	0.0011762	6.44236E-06	1.36E-03	3.37E-04	0.00E+00	2.22E-03	1.21E-05	*2.57E-03*	0.13151638	0	0.86375257	0.00473106
	Cadmium	1.339	0.00043	0.057	0.14	0.78	0.0017013	0.072172427	0.073873763	0.0031373	0.00004343	7.71E-02	2.19E-03	9.30E-02	4.04E-03	5.60E-05	*9.93E-02*	0.02207965	0.93664166	0.04071506	0.00056363
	Chromium	186.2	0.02578571	0.895	3.48	7.24	0.026714	1.750778632	1.777492592	0.4362666	0.002604357	2.22E+00	3.69E-03	2.42E-01	6.03E-02	3.60E-04	*3.06E-01*	0.01205306	0.78993297	0.19683892	0.00117506
	Cobalt	6.44	0.00146857	0.485	0.57	4.02	0.0144763	0.287792385	0.302268665	0.0150889	0.000148326	3.18E-01	3.60E-03	7.16E-02	3.75E-03	3.69E-05	*7.90E-02*	0.04559373	0.90641583	0.04752327	0.00046716
	Copper	202.06	0.02154286	54.350	10.23	12.23	1.6222388	5.149168421	6.771407221	0.4734266	0.002175829	7.25E+00	1.33E-01	4.21E-01	3.87E-02	1.78E-04	*5.92E-01*	0.22384941	0.71052319	0.06532716	0.00030024
	Cyanide	0	0.0025	0.268		51.90	0.0079843	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	19420	2.401	577.500	1607.58	2.57	17.23722	808.8589333	826.0961533	45.50106	0.242501	8.72E+02	6.72E+00	3.15E+02	1.77E+01	9.45E-02	*3.40E+02*	0.01977109	0.92776106	0.05218971	0.00027815
X	Lead	161.36	0.01307286	0.515	14.72	6.43	0.0153717	7.403996044	7.419367764	0.3780665	0.001320358	7.80E+00	2.39E-03	1.15E+00	5.88E-02	2.05E-04	*1.21E+00*	0.00197105	0.94938185	0.0484778	0.0001693
	Manganese	163.88	0.46971429	88.700	92.41	70.76	2.6475176	46.49798444	49.14550204	0.3839708	0.047441143	4.96E+01	3.74E-02	6.57E-01	5.43E-03	6.70E-04	*7.01E-01*	0.05340223	0.9378959	0.00774495	0.00095692
X	Mercury	2.634	0.00020393	0.009	0.09	0.03	0.0002686	0.046425185	0.046693817	0.0061715	2.05968E-05	5.29E-02	1.04E-02	1.80E+00	2.40E-01	8.00E-04	*2.06E+00*	0.00507947	0.87783712	0.11669396	0.00038946
	Nickel	10.78	0.00284286	0.068	0.28	32.17	0.0020147	0.140119455	0.142134195	0.0252575	0.000287129	1.68E-01	6.26E-05	4.36E-03	7.85E-04	8.93E-06	*5.21E-03*	0.01201547	0.83564173	0.15063043	0.00171237
	Selenium	1.752	0.00085714	0.330	0.15	0.16	0.0098498	0.075744838	0.085594678	0.0041049	8.65714E-05	8.98E-02	6.12E-02	4.71E-01	2.55E-02	5.38E-04	*5.58E-01*	0.10970329	0.8436135	0.04571902	0.0009642
	Silver	1.512	0.00025	0.037		145.71	0.0011044	0	0.001104376	0.0035426	0.00002525	4.67E-03	7.58E-06	0.00E+00	2.43E-05	1.73E-07	*3.21E-05*	0.23636961	0	0.75822614	0.00540426
	Thallium	0.93	0.00077857	0.068		0.06	0.0020147	0	0.00201474	0.002179	7.86357E-05	4.27E-03	3.35E-02	0.00E+00	3.62E-02	1.31E-03	*7.10E-02*	0.4715748	0	0.51001954	0.01840566
X	Vanadium	23.62	0.00187893	0.138	0.82	0.16	0.0041041	0.413527899	0.417631999	0.0553417	0.000189772	4.73E-01	2.62E-02	2.64E+00	3.53E-01	1.21E-03	*3.02E+00*	0.00867375	0.8739642	0.11696098	0.00040107
	Zinc	342.6	0.12778571	28.750	13.26	128.66	0.85813	6.673245384	7.531375384	0.8027118	0.012906357	8.35E+00	6.67E-03	5.19E-02	6.24E-03	1.00E-04	*6.49E-02*	0.10280708	0.79947892	0.09616778	0.00154623

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0	0.0025			9.730183192	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	2.57E-04	*2.57E-04*	0	0	0	1
	Acetone	0	0.0025			1367.050531	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	1.83E-06	*1.83E-06*	0	0	0	1
	cis-1,2-Dichloroethene	0	0.00058333			2504.114914	0	0	0	0	0.000583333	5.83E-04	0.00E+00	0.00E+00	0.00E+00	2.33E-07	*2.33E-07*	0	0	0	1
	Tetrachloroethene	0	0.0005			6.09153838	0	0	0	0	0.0005	5.00E-04	0.00E+00	0.00E+00	0.00E+00	8.21E-05	*8.21E-05*	0	0	0	1
	Trichloroethene	0	0.0005			3.04576919	0	0	0	0	0.0005	5.00E-04	0.00E+00	0.00E+00	0.00E+00	1.64E-04	*1.64E-04*	0	0	0	1
	Semivolatile Organics																				
	2-Methylnaphthalene	0	0.0025			62.53	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.00E-05	*4.00E-05*	0	0	0	1
	Acenaphthylene	0	0.0025			58.00	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-05	*4.31E-05*	0	0	0	1
	Anthracene	0	0.0025			435.11	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	5.75E-06	*5.75E-06*	0	0	0	1
	Benzo(a)anthracene	0	0.0025			0.57	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.42E-03	*4.42E-03*	0	0	0	1
	Benzo(a)pyrene	0	0.0025		0.00	0.57	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.42E-03	*4.42E-03*	0	0	0	1
	Benzo(b)fluoranthene	0	0.0025		0.00	0.57	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.42E-03	*4.42E-03*	0	0	0	1
	Benzo(g,h,i)perylene	0	0.0025			58.00	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-05	*4.31E-05*	0	0	0	1
	Benzo(k)fluoranthene	0	0.0025		0.00	0.57	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.42E-03	*4.42E-03*	0	0	0	1
	Carbazole	0	0			58.00014758	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Chrysene	0	0.0025		0.00	0.57	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.42E-03	*4.42E-03*	0	0	0	1
	Dibenz(a,h)anthracene	0	0.0025			0.57	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.42E-03	*4.42E-03*	0	0	0	1
	Dibenzofuran	0	0.0025			58.00	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-05	*4.31E-05*	0	0	0	1
	Fluoranthene	0	0.0025		0.00	54.39	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.60E-05	*4.60E-05*	0	0	0	1
	Fluorene	0	0.0025			54.39	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.60E-05	*4.60E-05*	0	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025		0.00	0.57	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.42E-03	*4.42E-03*	0	0	0	1
	Naphthalene	0	0.0025			60.92	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.10E-05	*4.10E-05*	0	0	0	1
	N-nitrosodiphenylamine	0	0.0025			120.62	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	2.07E-05	*2.07E-05*	0	0	0	1
	Phenanthrene	0	0.0025		0.00	58.00	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-05	*4.31E-05*	0	0	0	1
	Pyrene	0	0.0025		0.00	58.00	0	0	0	0	0.0025	2.50E-03	0.00E+00	0.00E+00	0.00E+00	4.31E-05	*4.31E-05*	0	0	0	1
	Pesticides and PCBs																				
	4,4'-DDD	0	0.00005	0.0006	0.00E+00	6.84	4.323E-05	0	4.32305E-05	0	0.00005	9.32E-05	6.32E-06	0.00E+00	0.00E+00	7.32E-06	*1.36E-05*	0.46369471	0	0	0.53630529
	4,4'-DDE	0	0.00005	0.0010	0.00E+00	0.83	6.5348E-05	0	6.53484E-05	0	0.00005	1.15E-04	7.90E-05	0.00E+00	0.00E+00	6.05E-05	*1.40E-04*	0.56653062	0	0	0.43346938
	4,4'-DDT	0	0.00005	0.0011	0.00E+00	0.64	7.2051E-05	0	7.20508E-05	0	0.00005	1.22E-04	1.12E-04	0.00E+00	0.00E+00	7.77E-05	*1.90E-04*	0.59033452	0	0	0.40966548
	Aldrin	0	0.000025	0.0003		0.16	2.0442E-05	0	2.04423E-05	0	0.000025	4.54E-05	1.27E-04	0.00E+00	0.00E+00	1.55E-04	*2.83E-04*	0.44985203	0	0	0.55014797
	alpha-Chlordane	0	2.1729E-05	0.0006	0.00E+00	1.99	0.00004189	0	0.00004189	0	2.17286E-05	6.36E-05	2.10E-05	0.00E+00	0.00E+00	1.09E-05	*3.19E-05*	0.65845523	0	0	0.34154477
	Aroclor 1248	0.1215	0.0005	0.0025		0.57	0.00016756	0	0.00016756	0	0.0005	6.68E-04	2.96E-04	0.00E+00	0.00E+00	8.84E-04	*1.18E-03*	0.25100366	0	0	0.74899634
	Aroclor 1254	0.906	0.0005	0.0195		0.15	0.00130697	0	0.001306968	0	0.0005	1.81E-03	8.93E-03	0.00E+00	0.00E+00	3.42E-03	*1.23E-02*	0.72329338	0	0	0.27670662
	Aroclor 1260	0.99	0.0005	0.0215	6.18E-02	0.28	0.00144102	0.000144868	0.001585884	0	0.0005	2.09E-03	5.19E-03	5.22E-04	0.00E+00	1.80E-03	*7.52E-03*	0.69084202	0.0694514	0	0.23970658
	beta-BHC	0	0.000025	0.0003		3.22	1.7091E-05	0	1.70911E-05	0	0.000025	4.21E-05	5.31E-06	0.00E+00	0.00E+00	7.77E-06	*1.31E-05*	0.40605049	0	0	0.59394951
	delta-BHC	0	0.000025	0.0003		1.29	1.7091E-05	0	1.70911E-05	0	0.000025	4.21E-05	1.33E-05	0.00E+00	0.00E+00	1.94E-05	*3.27E-05*	0.40605049	0	0	0.59394951
	Endosulfan I	0	0.000025	0.0006	0.00E+00	1.21	0.00004189	0	0.00004189	0	0.000025	6.69E-05	3.47E-05	0.00E+00	0.00E+00	2.07E-05	*5.55E-05*	0.62625206	0	0	0.37374794
	Endosulfan Sulfate	0	0.00005	0.0009		1.21	6.3338E-05	0	6.33377E-05	0	0.00005	1.13E-04	5.25E-05	0.00E+00	0.00E+00	4.15E-05	*9.40E-05*	0.55884045	0	0	0.44115955
	Endrin Aldehyde	0	0.00005	0.0022	0.00E+00	0.04	0.00014745	0	0.000147453	0	0.00005	1.97E-04	3.68E-03	0.00E+00	0.00E+00	1.25E-03	*4.93E-03*	0.74677493	0	0	0.25322507
	gamma-Chlordane	0	2.1629E-05	0.0003	0.00E+00	1.99	1.7091E-05	0	1.70911E-05	0	2.16286E-05	3.87E-05	8.58E-06	0.00E+00	0.00E+00	1.09E-05	*1.94E-05*	0.44140608	0	0	0.55859392
	Inorganics																				
X	Aluminum	9592	0.38611429	47.900	1.60E+02	41.82	1.4297192	80.33315482	81.76287402	22.474056	0.038997543	1.04E+02	3.42E-02	1.92E+00	5.37E-01	9.33E-04	*2.49E+00*	0.01371092	0.77039022	0.21552487	0.00037398
	Antimony	5.405	0.00069286	0.050		0.05	0.00148494	0	0.001484938	0.01266392	6.99786E-05	1.42E-02	2.73E-02	0.00E+00	2.33E-01	1.29E-03	*2.61E-01*	0.1044346	0	0.89064386	0.00492154
X	Arsenic	144.785	0.02458571	3.750	7.63	0.05	0.11193	3.839662931	3.951592931	0.17300794	0.002483157	4.13E+00	2.04E+00	7.00E+01	3.16E+00	4.53E-02	*7.53E+01*	0.02712084	0.93035734	0.04192014	0.00060167
X	Barium	126.68	0.03734286	8.800	12.35	4.33	0.2626624	6.215191723	6.477854123	0.29681124	0.003771629	6.78E+00	6.07E-02	1.44E+00	6.85E-02	8.71E-04	*1.57E+00*	0.0387497	0.91690632	0.04378756	0.00055642
	Beryllium	0.463	6.3786E-05	0.006		0.53	0.00017909	0	0.000179088	0.00108481	6.44236E-06	1.27E-03	3.37E-04	0.00E+00	2.04E-03	1.21E-05	*2.39E-03*	0.1409765	0	0.85395213	0.00507137
	Cadmium	11.11	0.00043	0.057	1.19	0.78	0.00170134	0.598831713	0.600533049	0.02603073	0.00004343	6.27E-01	2.19E-03	7.72E-01	3.36E-02	5.60E-05	*8.08E-01*	0.00271516	0.95567319	0.04154234	6.931E-05
X	Chromium	838.56	0.02578571	0.895	15.67	7.24	0.02671396	7.884709611	7.911423571	1.96474608	0.002604357	9.88E+00	3.69E-03	1.09E+00	2.71E-01	3.60E-04	*1.36E+00*	0.00270418	0.79814657	0.19888562	0.00026363
	Cobalt	12.59	0.00146857	0.485	1.12	4.02	0.01447628	0.562625175	0.577101455	0.02949837	0.000148326	6.07E-01	3.60E-03	1.40E-01	7.34E-03	3.69E-05	*1.51E-01*	0.0238588	0.92727959	0.04861716	0.00024446
	Copper	377.55	0.02154286	54.350	19.12	12.23	1.6222388	9.621243874	11.24348267	0.88459965	0.002175829	1.21E+01	1.33E-01	7.87E-01	7.23E-02	1.78E-04	*9.92E-01*	0.13373489	0.79316069	0.07292505	0.00017937
	Cyanide	0	0.0025	0.268		51.90	0.00798434	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	28394	2.401	577.500	2350.45	2.57	17.23722	1182.633396	1199.870616	66.527142	0.242501	1.27E+03	6.72E+00	4.61E+02	2.59E+01	9.45E-02	*4.94E+02*	0.01360862	0.93367741	0.05252252	0.00019145
X	Lead	523.31	0.01307286	0.515	47.72	6.43	0.01537172	24.01205484	24.02742656	1.22611533	0.001320358	2.53E+01	2.39E-03	3.73E+00	1.91E-01	2.05E-04	*3.93E+00*	0.00060866	0.95078938	0.04854967	5.2281E-05
X	Manganese	292.85	0.46971429	88.700	165.14	70.76	2.6475176	83.09088812	85.73840572	0.68614755	0.047441143	8.65E+01	3.74E-02	1.17E+00	9.70E-03	6.70E-04	*1.22E+00*	0.03061705	0.96089941	0.00793491	0.00054863
	Mercury	0.765	0.00020393	0.009	0.03	0.03	0.00026863	0.013483396	0.013752028	0.0017924	2.05968E-05	1.56E-02	1.04E-02	5.24E-01	6.97E-02	8.00E-04	*6.05E-01*	0.0172587	0.8662627	0.11515533	0.00132327
	Nickel	51.75	0.00284286	0.068	1.34	32.17	0.00201474	0.672651371	0.674666111	0.12125025	0.000287129	7.96E-01	6.26E-05	2.09E-02	3.77E-03	8.93E-06	*2.48E-02*	0.00253043	0.84482344	0.1522855	0.00036062
	Selenium	3.022	0.00085714	0.330	0.26	0.16	0.00984984	0.130651199	0.140501039	0.00708055	8.65714E-05	1.48E-01	6.12E-02	8.12E-01	4.40E-02	5.38E-04	*9.18E-01*	0.06670253	0.88476217	0.04794904	0.00058626
	Silver	0.7035	0.00025	0.037		145.71	0.00110438	0	0.001104376	0.0016483	0.00002525	2.78E-03	7.58E-06	0.00E+00	1.13E-05	1.73E-07	*1.91E-05*	0.39755407	0	0.59335641	0.00908951
	Thallium	2.5277778	0.00077857	0.068		0.06	0.00201474	0	0.00201474	0.00592258	7.86357E-05	8.02E-03	3.35E-02	0.00E+00	9.85E-02	1.31E-03	*1.33E-01*	0.2513411	0	0.738849	0.00980989
X	Vanadium	48.87	0.00187893	0.138	1.70	0.16	0.0041041	0.855593075	0.859697175	0.11450241	0.000189772	9.74E-01	2.62E-02	5.46E+00	7.30E-01	1.21E-03	*6.22E+00*	0.00421197	0.8780813	0.11751197	0.00019476
	Zinc	1819.5	0.12778571	28.750	70.44	128.66	0.85813	35.44065959	36.29878959	4.2630885	0.012906357	4.06E+01	6.67E-03	2.75E-01	3.31E-02	1.00E-04	*3.15E-01*	0.02114934	0.87346514	0.10506743	0.00031809

Table E.1-31. Exposure Calculatioins for Muskrat - Station KFSE

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Aluminum	4889.5	0.14033333	52.7000	8.14E+01	41.82	1.5729896	40.94964142	42.52263102	11.456099	0.014173667	5.40E+01	3.76E-02	9.79E-01	2.74E-01	3.39E-04	*1.29E+00*	0.02913327	0.75842637	0.21217786	0.00026251
	Antimony	0.865	0.0006	0.0550		0.05	0.0016416	0	0.00164164	0.0020267	0.0000606	3.73E-03	3.02E-02	0.00E+00	3.73E-02	1.11E-03	*6.86E-02*	0.44024366	0	0.54350505	0.01625129
X	Arsenic	38.49	0.01268333	2.7000	2.03	0.05	0.0805896	1.020745424	1.101335024	0.0459929	0.001281017	1.15E+00	1.47E+00	1.86E+01	8.39E-01	2.34E-02	*2.10E+01*	0.07016279	0.88867971	0.04004222	0.00111528
	Barium	33.425	0.03208333	9.9750	3.26	4.33	0.2977338	1.639901984	1.937635784	0.0783148	0.003240417	2.02E+00	6.88E-02	3.79E-01	1.81E-02	7.48E-04	*4.66E-01*	0.14745203	0.81215794	0.03878522	0.00160481
	Beryllium	0.2905	4.5667E-05	0.0065		0.53	0.000194	0	0.000194012	0.0006806	4.61234E-06	8.79E-04	3.66E-04	0.00E+00	1.28E-03	8.69E-06	*1.66E-03*	0.22065227	0	0.77410207	0.00524567
	Cadmium	0.5455	0.00056	0.1105	0.06	0.78	0.0032982	0.029402583	0.032700787	0.0012781	0.00005656	3.40E-02	4.25E-03	3.79E-02	1.65E-03	7.29E-05	*4.39E-02*	0.09690495	0.86388104	0.03755221	0.0016618
	Chromium	67.94	0.0062	2.2000	1.27	7.24	0.0656656	0.638817939	0.704483539	0.1591834	0.0006262	8.64E-01	9.07E-03	8.83E-02	2.20E-02	8.65E-05	*1.19E-01*	0.07597607	0.73912183	0.18417758	0.00072452
	Cobalt	6.525	0.000985	0.5400	0.58	4.02	0.0161179	0.291590887	0.307708807	0.0152881	0.000099485	3.23E-01	4.01E-03	7.25E-02	3.80E-03	2.47E-05	*8.04E-02*	0.0498858	0.90248891	0.04731738	0.00030791
	Copper	78.595	0.00718333	62.2500	3.98	12.23	1.858038	2.002864951	3.860902951	0.1841481	0.000725517	4.05E+00	1.52E-01	1.64E-01	1.51E-02	5.93E-05	*3.31E-01*	0.45925374	0.49505081	0.04551613	0.00017933
	Cyanide	0	0.0025	0.2250		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	11959	1.20933333	342.5000	989.96	2.57	10.22294	498.1021619	508.3251019	28.019937	0.122142667	5.36E+02	3.99E+00	1.94E+02	1.09E+01	4.76E-02	*2.09E+02*	0.01905604	0.9284858	0.05223048	0.00022768
	Lead	98.47	0.00330833	0.9700	8.98	6.43	0.0289526	4.518291339	4.547243899	0.2307152	0.000334142	4.78E+00	4.50E-03	7.02E-01	3.59E-02	5.19E-05	*7.43E-01*	0.00605918	0.94558687	0.04828402	6.9929E-05
X	Manganese	291.2	0.5925	120.0000	164.21	70.76	3.58176	82.62273047	86.20449047	0.6822816	0.0598425	8.69E+01	5.06E-02	1.17E+00	9.64E-03	8.46E-04	*1.23E+00*	0.04119493	0.95026967	0.00784713	0.00068827
	Mercury	0.513	0.00011583	0.0140	0.02	0.03	0.0004179	0.009041807	0.009459679	0.001202	1.16992E-05	1.07E-02	1.62E-02	3.51E-01	4.67E-02	4.55E-04	*4.15E-01*	0.03915102	0.84713964	0.11261323	0.00109611
	Nickel	6.71	0.00163333	0.1025	0.17	32.17	0.0030594	0.087217212	0.090276632	0.0157215	0.000164967	1.06E-01	9.51E-05	2.71E-03	4.89E-04	5.13E-06	*3.30E-03*	0.0288181	0.82153958	0.14808842	0.0015539
	Selenium	0.33	0.00075	0.3950	0.03	0.16	0.01179	0.014267007	0.026056967	0.0007732	0.00007575	2.69E-02	7.33E-02	8.87E-02	4.81E-03	4.71E-04	*1.67E-01*	0.43819225	0.53025557	0.02873681	0.00281537
	Silver	0.3695	0.000375	0.0195		145.71	0.000582	0	0.000582036	0.0008657	0.000037875	1.49E-03	3.99E-06	0.00E+00	5.94E-06	2.60E-07	*1.02E-05*	0.39177208	0	0.58273402	0.0254939
	Thallium	0.875	0.00085	0.1325		0.06	0.0039549	0	0.00395486	0.0020501	0.00008585	6.09E-03	6.58E-02	0.00E+00	3.41E-02	1.43E-03	*1.01E-01*	0.64931327	0	0.33659178	0.01409495
X	Vanadium	18.655	0.00093333	0.1575	0.65	0.16	0.0047011	0.326603004	0.331304064	0.0437087	9.42667E-05	3.75E-01	3.00E-02	2.08E+00	2.79E-01	6.01E-04	*2.39E+00*	0.01253258	0.87069292	0.11652319	0.00025131
	Zinc	283.5	0.05855	27.7500	10.97	128.66	0.828282	5.522081338	6.350363338	0.6642405	0.00591355	7.02E+00	6.44E-03	4.29E-02	5.16E-03	4.60E-05	*5.46E-02*	0.11798019	0.7865633	0.09461418	0.00084232

Table E.1-32. Exposure Calculatioins for Muskrat - Station LP

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 3	Reach 3																	
	Inorganics																				
X	Aluminum	6889.3333	0.129	58.333	1.15E+02	41.82	1.7411333	57.69827786	59.43941119	16.141708	0.013029	7.56E+01	4.16E-02	1.38E+00	3.86E-01	3.12E-04	*1.81E+00*	0.02303265	0.76326381	0.21353118	0.00017235
	Antimony	1.22	0.0013	0.046		0.05	0.001368	0	0.001368032	0.0028585	0.0001313	4.36E-03	2.52E-02	0.00E+00	5.26E-02	2.41E-03	*8.01E-02*	0.31392784	0	0.65594222	0.03012994
X	Arsenic	69.946667	0.00695	1.533	3.69	0.05	0.0457669	1.854968562	1.900735495	0.0835814	0.00070195	1.99E+00	8.35E-01	3.38E+01	1.52E+00	1.28E-02	*3.62E+01*	0.02305617	0.93448412	0.04210608	0.00035362
	Barium	30.053333	0.0339	13.967	2.93	4.33	0.4168771	1.474480805	1.891357873	0.070415	0.0034239	1.97E+00	9.63E-02	3.41E-01	1.63E-02	7.91E-04	*4.54E-01*	0.21212994	0.75029679	0.035831	0.00174227
	Beryllium	0.3643333	0.00005	0.004		0.53	0.0001189	0	0.000118894	0.0008536	0.00000505	9.78E-04	2.24E-04	0.00E+00	1.61E-03	9.52E-06	*1.84E-03*	0.12162071	0	0.87321346	0.00516584
	Cadmium	1.9006667	0.0000495	0.047	0.20	0.78	0.0013879	0.102446399	0.103834331	0.0044533	4.9995E-06	1.08E-01	1.79E-03	1.32E-01	5.74E-03	6.45E-06	*1.40E-01*	0.0128165	0.94601483	0.0411225	4.6167E-05
	Chromium	52.463333	0.0031	0.890	0.98	7.24	0.0265647	0.493295827	0.519860547	0.1229216	0.0003131	6.43E-01	3.67E-03	6.82E-02	1.70E-02	4.33E-05	*8.89E-02*	0.0413076	0.76706497	0.19114057	0.00048686
	Cobalt	6.66	0.00048	0.397	0.59	4.02	0.0118397	0.297623802	0.309463509	0.0156044	0.00004848	3.25E-01	2.94E-03	7.40E-02	3.88E-03	1.21E-05	*8.09E-02*	0.03641683	0.91543776	0.04799629	0.00014912
	Copper	187.24667	0.0036	41.200	9.48	12.23	1.2297376	4.771674864	6.001412464	0.4387189	0.0003636	6.44E+00	1.01E-01	3.90E-01	3.59E-02	2.97E-05	*5.27E-01*	0.19093837	0.74088635	0.06811882	5.6455E-05
	Cyanide	0	0.0025	0.247		51.90	0.0073625	0	0.007362508	0	0.0002525	0.00E+00	1.42E-04	0.00E+00	0.00E+00	4.87E-06	*1.47E-04*	0.96684179	0	0	0.03315821
X	Iron	10464	1.92	277.333	866.21	2.57	8.2778453	435.8341853	444.1120306	24.517152	0.19392	4.69E+02	3.23E+00	1.70E+02	9.56E+00	7.56E-02	*1.83E+02*	0.01765665	0.92963462	0.0522951	0.00041363
	Lead	82.813333	0.0043	1.013	7.55	6.43	0.030246	3.79988592	3.830131893	0.1940316	0.0004343	4.02E+00	4.70E-03	5.91E-01	3.02E-02	6.75E-05	*6.26E-01*	0.00751528	0.94416537	0.04821144	0.00010791
	Manganese	171.85333	0.585	98.300	96.91	70.76	2.9340584	48.76027348	51.69433188	0.4026524	0.059085	5.22E+01	4.15E-02	6.89E-01	5.69E-03	8.35E-04	*7.37E-01*	0.05625536	0.93489165	0.00772014	0.00113285
	Mercury	0.4613333	0.00022	0.007	0.02	0.03	0.000194	0.008131163	0.008325175	0.0010809	0.00002222	9.43E-03	7.54E-03	3.16E-01	4.20E-02	8.63E-04	*3.66E-01*	0.02057762	0.862421	0.11464464	0.00235673
	Nickel	9.7093333	0.0017	0.098	0.25	32.17	0.0029351	0.126202828	0.12913788	0.022749	0.0001717	1.52E-01	9.12E-05	3.92E-03	7.07E-04	5.34E-06	*4.73E-03*	0.01930212	0.82996207	0.14960664	0.00112917
	Selenium	0.801	0.00075	0.430	0.07	0.16	0.0128346	0.034629917	0.047464557	0.0018767	0.00007575	4.94E-02	7.98E-02	2.15E-01	1.17E-02	4.71E-04	*3.07E-01*	0.25972088	0.7007686	0.03797764	0.00153287
	Silver	0.175	0.00037	0.027		145.71	0.0008158	0	0.000815844	0.00041	0.00003737	1.26E-03	5.60E-06	0.00E+00	2.81E-06	2.56E-07	*8.67E-06*	0.64583513	0	0.3245822	0.02958268
	Thallium	1.585	0.00085	0.065		0.06	0.0019401	0	0.00194012	0.0037137	0.00008585	5.74E-03	3.23E-02	0.00E+00	6.18E-02	1.43E-03	*9.54E-02*	0.33802208	0	0.64702049	0.01495742
X	Vanadium	16.446667	0.0019	0.198	0.57	0.16	0.005895	0.287940539	0.293835519	0.0385345	0.0001919	3.33E-01	3.76E-02	1.84E+00	2.46E-01	1.22E-03	*2.12E+00*	0.01772596	0.86582524	0.11587176	0.00057704
	Zinc	699.46	0.0189	23.933	27.08	128.66	0.7143621	13.62425049	14.33861262	1.6388348	0.0019089	1.60E+01	5.55E-03	1.06E-01	1.27E-02	1.48E-05	*1.24E-01*	0.04470531	0.85261573	0.1025595	0.00011946

Table E.1-33. Exposure Calculatioins for Muskrat - Station TT-28

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Aluminum	16566.667	0.38611429	47.900	2.76E+02	41.82	1.4297192	138.7461007	140.1758199	38.8157	0.038997543	1.79E+02	3.42E-02	3.32E+00	9.28E-01	9.33E-04	*4.28E+00*	0.0079859	0.77498575	0.21681052	0.00021783
	Antimony	19.033333	0.00069286	0.050		0.05	0.0014849	0	0.001484938	0.0445951	6.99786E-05	4.62E-02	2.73E-02	0.00E+00	8.20E-01	1.29E-03	*8.49E-01*	0.03217633	0	0.96630735	
X	Arsenic	752.33333	0.02458571	3.750	39.65	0.05	0.11193	19.95169674	20.06362674	0.8989857	0.002483157	2.10E+01	2.04E+00	3.64E+02	1.64E+01	4.53E-02	*3.82E+02*	0.00533887	0.95166257	0.04288011	0.00011844
X	Barium	94.566667	0.03734286	8.800	9.22	4.33	0.2626624	4.639642913	4.902305313	0.2215697	0.003771629	5.13E+00	6.07E-02	1.07E+00	5.12E-02	8.71E-04	*1.18E+00*	0.05122475	0.90482891	0.0432108	0.00073555
	Beryllium	1.1233333	6.3786E-05	0.006		0.53	0.0001791	0	0.000179088	0.002632	6.44236E-06	2.82E-03	3.37E-04	0.00E+00	4.96E-03	1.21E-05	*5.31E-03*	0.06356273	0	0.93415072	0.00228655
X	Cadmium	14.666667	0.00043	0.057	1.57	0.78	0.0017013	0.790536917	0.792238253	0.034364	0.00004343	8.27E-01	2.19E-03	1.02E+00	4.43E-02	5.60E-05	*1.07E+00*	0.00205812	0.95631893	0.04157041	5.2538E-05
X	Chromium	2816.6667	0.02578571	0.895	52.64	7.24	0.026714	26.48420952	26.51092348	6.59945	0.002604357	3.31E+01	3.69E-03	3.66E+00	9.12E-01	3.60E-04	*4.58E+00*	0.00080675	0.79981359	0.19930101	7.8651E-05
	Cobalt	29.5	0.00146857	0.485	2.62	4.02	0.0144763	1.318303626	1.332779906	0.0691185	0.000148326	1.40E+00	3.60E-03	3.28E-01	1.72E-02	3.69E-05	*3.49E-01*	0.01032511	0.94027082	0.04929829	0.00010579
X	Copper	962	0.02154286	54.350	48.72	12.23	1.6222388	24.51499565	26.13723445	2.253966	0.002175829	2.84E+01	1.33E-01	2.00E+00	1.84E-01	1.78E-04	*2.32E+00*	0.05713441	0.86340544	0.07938351	7.6632E-05
	Cyanide	0	0.0025	0.268		51.90	0.0079843	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	66733.333	2.401	577.500	5524.17	2.57	17.23722	2779.498085	2796.735305	156.3562	0.242501	2.95E+03	6.72E+00	1.08E+03	6.10E+01	9.45E-02	*1.15E+03*	0.00583653	0.94113909	0.05294227	8.2111E-05
X	Lead	421.33333	0.01307286	0.515	38.42	6.43	0.0153717	19.33286027	19.34823199	0.987184	0.001320358	2.03E+01	2.39E-03	3.01E+00	1.53E-01	2.05E-04	*3.16E+00*	0.00075586	0.95063731	0.04854191	6.4925E-05
X	Manganese	683.66667	0.46971429	88.700	385.53	70.76	2.6475176	193.9780451	196.6255627	1.601831	0.047441143	1.98E+02	3.74E-02	2.74E+00	2.26E-02	6.70E-04	*2.80E+00*	0.01335277	0.97832912	0.00807884	0.00023927
X	Mercury	4.0666667	0.00020393	0.009	0.14	0.03	0.0002686	0.071676444	0.071945076	0.0095282	2.05968E-05	8.15E-02	1.04E-02	2.79E+00	3.70E-01	8.00E-04	*3.17E+00*	0.00329635	0.87953169	0.11691922	0.00025274
	Nickel	26.866667	0.00284286	0.068	0.69	32.17	0.0020147	0.349215463	0.351230203	0.0629486	0.000287129	4.14E-01	6.26E-05	1.09E-02	1.96E-03	8.93E-06	*1.29E-02*	0.00486105	0.84256735	0.15187883	0.00069277
X	Selenium	8.5666667	0.00085714	0.330	0.74	0.16	0.0098498	0.370365744	0.380215584	0.0200717	8.65714E-05	4.00E-01	6.12E-02	2.30E+00	1.25E-01	5.38E-04	*2.49E+00*	0.02460161	0.92504977	0.05013239	0.00021623
	Silver	4.1333333	0.00025	0.037		145.71	0.0011044	0	0.001104376	0.0096844	0.00002525	1.08E-02	7.58E-06	0.00E+00	6.65E-05	1.73E-07	*7.42E-05*	0.10212441	0	0.89554066	0.00233493
	Thallium	0.3683333	0.00077857	0.068		0.06	0.0020147	0	0.00201474	0.000863	7.86357E-05	2.96E-03	3.35E-02	0.00E+00	1.44E-02	1.31E-03	*4.92E-02*	0.6814887	0	0.29191266	0.02659864
X	Vanadium	58.033333	0.00187893	0.138	2.02	0.16	0.0041041	1.016020423	1.020124523	0.1359721	0.000189772	1.16E+00	2.62E-02	6.48E+00	8.67E-01	1.21E-03	*7.38E+00*	0.00354938	0.87869271	0.11759379	0.00016412
	Zinc	2516.6667	0.12778571	28.750	97.43	128.66	0.85813	49.02023998	49.87836998	5.89655	0.012906357	5.58E+01	6.67E-03	3.81E-01	4.58E-02	1.00E-04	*4.34E-01*	0.01538203	0.87869062	0.105696	0.00023135

Table E.1-34. Exposure Calculatioins for Muskrat - Station TT-29

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Aluminum	16233.333	0.38611429	47.900	2.70E+02	41.82	1.4297192	135.9544287	137.3841479	38.0347	0.038997543	1.75E+02	3.42E-02	3.25E+00	9.10E-01	9.33E-04	*4.20E+00*	0.00814851	0.77485523	0.21677401	0.00022226
	Antimony	3.9166667	0.00069286	0.050		0.05	0.0014849	0	0.001484938	0.0091768	6.99786E-05	1.07E-02	2.73E-02	0.00E+00	1.69E-01	1.29E-03	*1.97E-01*	0.13836975	0	0.8551095	0.00652075
X	Arsenic	746.66667	0.02458571	3.750	39.35	0.05	0.11193	19.80141812	19.91334812	0.8922144	0.002483157	2.08E+01	2.04E+00	3.61E+02	1.63E+01	4.53E-02	*3.80E+02*	0.00537917	0.95162316	0.04287834	0.00011934
	Barium	70.95	0.03734286	8.800	6.92	4.33	0.2626624	3.480958737	3.743621137	0.1662359	0.003771629	3.91E+00	6.07E-02	8.04E-01	3.84E-02	8.71E-04	*9.04E-01*	0.0671148	0.88944534	0.04247614	0.00096372
	Beryllium	0.985	6.3786E-05	0.006		0.53	0.0001791	0	0.000179088	0.0023079	6.44236E-06	2.49E-03	3.37E-04	0.00E+00	4.35E-03	1.21E-05	*4.70E-03*	0.07182524	0	0.92559098	0.00258378
	Cadmium	13.316667	0.00043	0.057	1.43	0.78	0.0017013	0.717771587	0.719472923	0.031201	0.00004343	7.51E-01	2.19E-03	9.25E-01	4.02E-02	5.60E-05	*9.68E-01*	0.00226628	0.95611435	0.04156152	5.7851E-05
X	Chromium	3126.6667	0.02578571	0.895	58.43	7.24	0.026714	29.39903968	29.42575364	7.32578	0.002604357	3.68E+01	3.69E-03	4.06E+00	1.01E+00	3.60E-04	*5.08E+00*	0.00072683	0.7998838	0.19931851	7.0859E-05
	Cobalt	34.633333	0.00146857	0.485	3.08	4.02	0.0144763	1.547703351	1.562179631	0.0811459	0.000148326	1.64E+00	3.60E-03	3.85E-01	2.02E-02	3.69E-05	*4.09E-01*	0.00880834	0.94172678	0.04937462	9.0251E-05
X	Copper	979	0.02154286	54.350	49.58	12.23	1.6222388	24.94821283	26.57045163	2.293797	0.002175829	2.89E+01	1.33E-01	2.04E+00	1.88E-01	1.78E-04	*2.36E+00*	0.05619812	0.86426405	0.07946246	7.5376E-05
	Cyanide	0	0.0025	0.268		51.90	0.0079843	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0.96934504	0	0	0.03065496
X	Iron	73533.333	2.401	577.500	6087.07	2.57	17.23722	3062.723664	3079.960884	172.2886	0.242501	3.25E+03	6.72E+00	1.19E+03	6.72E+01	9.45E-02	*1.27E+03*	0.0052997	0.94165448	0.05297126	7.4559E-05
X	Lead	501	0.01307286	0.515	45.69	6.43	0.0153717	22.98836154	23.00373326	1.173843	0.001320358	2.42E+01	2.39E-03	3.57E+00	1.82E-01	2.05E-04	*3.76E+00*	0.00063575	0.9507614	0.04854825	5.4608E-05
X	Manganese	786.66667	0.46971429	88.700	443.61	70.76	2.6475176	223.2024312	225.8499488	1.84316	0.047441143	2.28E+02	3.74E-02	3.15E+00	2.60E-02	6.70E-04	*3.22E+00*	0.01162515	0.9800733	0.00809324	0.00020831
X	Mercury	8.6	0.00020393	0.009	0.30	0.03	0.0002686	0.151578052	0.151846684	0.0201498	2.05968E-05	1.72E-01	1.04E-02	5.89E+00	7.83E-01	8.00E-04	*6.68E+00*	0.00156166	0.88118024	0.11713837	0.00011974
	Nickel	30.316667	0.00284286	0.068	0.78	32.17	0.0020147	0.394058887	0.396073627	0.071032	0.000287129	4.67E-01	6.26E-05	1.23E-02	2.21E-03	8.93E-06	*1.45E-02*	0.00431059	0.84310021	0.15197488	0.00061432
X	Selenium	7.6833333	0.00085714	0.330	0.66	0.16	0.0098498	0.332176277	0.342026117	0.018002	8.65714E-05	3.60E-01	6.12E-02	2.07E+00	1.12E-01	5.38E-04	*2.24E+00*	0.02735195	0.92241789	0.04998976	0.0002404
	Silver	1.35	0.00025	0.037		145.71	0.0011044	0	0.001104376	0.0031631	0.00002525	4.29E-03	7.58E-06	0.00E+00	2.17E-05	1.73E-07	*2.95E-05*	0.25726982	0	0.73684806	0.00588211
	Thallium	8.9666667	0.00077857	0.068		0.06	0.0020147	0	0.00201474	0.0210089	7.86357E-05	2.31E-02	3.35E-02	0.00E+00	3.49E-01	1.31E-03	*3.84E-01*	0.08720959	0	0.9093866	0.00340381
X	Vanadium	66.633333	0.00187893	0.138	2.32	0.16	0.0041041	1.166585196	1.170689296	0.1561219	0.000189772	1.33E+00	2.62E-02	7.44E+00	9.96E-01	1.21E-03	*8.46E+00*	0.00309276	0.87911405	0.11765018	0.00014301
	Zinc	2848.3333	0.12778571	28.750	110.27	128.66	0.85813	55.48052326	56.33865326	6.673645	0.012906357	6.30E+01	6.67E-03	4.31E-01	5.19E-02	1.00E-04	*4.90E-01*	0.01361566	0.88029105	0.10588851	0.00020478

Table E.1-35. Exposure Calculatioins for Muskrat - Station TT-30

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Aluminum	14295	0.14033333	52.700	2.38E+02	41.82	1.5729896	119.7208557	121.2938453	33.493185	0.014173667	1.55E+02	3.76E-02	2.86E+00	8.01E-01	3.39E-04	*3.70E+00*	0.01016135	0.77338453	0.21636256	9.156E-05
	Antimony	6.51625	0.0006	0.055		0.05	0.0016416	0	0.00164164	0.0152676	0.0000606	1.70E-02	3.02E-02	0.00E+00	2.81E-01	1.11E-03	*3.12E-01*	0.09673883	0	0.89969012	0.00357105
X	Arsenic	586.5	0.01268333	2.700	30.91	0.05	0.0805896	15.55383713	15.63442673	0.7008264	0.001281017	1.63E+01	1.47E+00	2.84E+02	1.28E+01	2.34E-02	*2.98E+02*	0.00493309	0.95208916	0.04289933	7.8414E-05
	Barium	69.5	0.03208333	9.975	6.78	4.33	0.2977338	3.409818636	3.707552436	0.1628385	0.003240417	3.87E+00	6.88E-02	7.87E-01	3.76E-02	7.48E-04	*8.95E-01*	0.07686168	0.88026411	0.04203769	0.00083653
	Beryllium	0.9275	4.5667E-05	0.007		0.53	0.000194	0	0.000194012	0.0021731	4.61234E-06	2.37E-03	3.66E-04	0.00E+00	4.09E-03	8.69E-06	*4.47E-03*	0.08180097	0	0.91625434	0.00194469
	Cadmium	6.525	0.00056	0.111	0.70	0.78	0.0032982	0.351699093	0.354997297	0.0152881	0.00005656	3.70E-01	4.25E-03	4.53E-01	1.97E-02	7.29E-05	*4.77E-01*	0.00890583	0.94966047	0.04128097	0.00015272
X	Chromium	2368.25	0.0062	2.200	44.26	7.24	0.0656656	22.26789202	22.33355762	5.5488098	0.0006262	2.79E+01	9.07E-03	3.08E+00	7.67E-01	8.65E-05	*3.85E+00*	0.00235504	0.79861913	0.19900337	2.2458E-05
	Cobalt	19.25	0.000985	0.540	1.71	4.02	0.0161179	0.860248976	0.876366896	0.0451028	0.000099485	9.22E-01	4.01E-03	2.14E-01	1.12E-02	2.47E-05	*2.29E-01*	0.01748965	0.93346114	0.04894126	0.00010795
X	Copper	1380.5	0.00718333	62.250	69.92	12.23	1.858038	35.17978326	37.03782126	3.2345115	0.000725517	4.03E+01	1.52E-01	2.88E+00	2.64E-01	5.93E-05	*3.29E+00*	0.046136	0.87353146	0.08031452	1.8015E-05
	Cyanide	0	0.0025	0.225		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	38325	1.20933333	342.500	3172.54	2.57	10.22294	1596.267694	1606.490634	89.795475	0.122142667	1.70E+03	3.99E+00	6.22E+02	3.50E+01	4.76E-02	*6.61E+02*	0.00602623	0.94096907	0.0529327	7.2001E-05
X	Lead	439.25	0.00330833	0.970	40.06	6.43	0.0289526	20.15496568	20.18391824	1.0291628	0.000334142	2.12E+01	4.50E-03	3.13E+00	1.60E-01	5.19E-05	*3.30E+00*	0.00136482	0.95010471	0.04851471	1.5751E-05
X	Manganese	825.25	0.5925	120.000	465.37	70.76	3.58176	234.1497539	237.7315139	1.9335608	0.0598425	2.40E+02	5.06E-02	3.31E+00	2.73E-02	8.46E-04	*3.39E+00*	0.01494113	0.9767435	0.00806575	0.00024963
X	Mercury	24.925	0.00011583	0.014	0.87	0.03	0.0004179	0.43931197	0.439729842	0.0583993	1.16992E-05	4.98E-01	1.62E-02	1.71E+01	2.27E+00	4.55E-04	*1.94E+01*	0.00083886	0.88190318	0.11723447	2.3486E-05
	Nickel	20.6	0.00163333	0.103	0.53	32.17	0.0030594	0.267760739	0.270820159	0.0482658	0.000164967	3.19E-01	9.51E-05	8.32E-03	1.50E-03	5.13E-06	*9.93E-03*	0.00958312	0.83871562	0.15118453	0.00051673
X	Selenium	4.075	0.00075	0.395	0.35	0.16	0.01179	0.176175922	0.187965882	0.0095477	0.00007575	1.98E-01	7.33E-02	1.10E+00	5.94E-02	4.71E-04	*1.23E+00*	0.059669	0.89162658	0.04832105	0.00038337
	Silver	0.77125	0.000375	0.020		145.71	0.000582	0	0.000582036	0.001807	0.000037875	2.43E-03	3.99E-06	0.00E+00	1.24E-05	2.60E-07	*1.67E-05*	0.23982202	0	0.74457197	0.01560601
	Thallium	3.5625	0.00085	0.133		0.06	0.0039549	0	0.00395486	0.0083469	0.00008585	1.24E-02	6.58E-02	0.00E+00	1.39E-01	1.43E-03	*2.06E-01*	0.31925836	0	0.67381135	0.00693029
X	Vanadium	42.75	0.00093333	0.158	1.49	0.16	0.0047011	0.748446981	0.753148041	0.1001633	9.42667E-05	8.53E-01	3.00E-02	4.77E+00	6.39E-01	6.01E-04	*5.44E+00*	0.00550859	0.87701208	0.11736887	0.00011046
	Zinc	1186	0.05855	27.750	45.91	128.66	0.828282	23.10119389	23.92947589	2.778798	0.00591355	2.67E+01	6.44E-03	1.80E-01	2.16E-02	4.60E-05	*2.08E-01*	0.03100532	0.86475375	0.10401956	0.00022136

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Aluminum	10926.667	0.14033333	52.700	1.82E+02	41.82	1.5729896	91.51100969	93.08399929	25.60118	0.014173667	1.19E+02	3.76E-02	2.19E+00	6.12E-01	3.39E-04	*2.84E+00*	0.01325188	0.77094784	0.21568087	0.00011941
	Antimony	0.27	0.0006	0.055		0.05	0.0016416	0	0.00164164	0.0006326	0.0000606	2.33E-03	3.02E-02	0.00E+00	1.16E-02	1.11E-03	*4.29E-02*	0.70310298	0	0.27094246	0.02595456
X	Arsenic	16.6	0.01268333	2.700	0.87	0.05	0.0805896	0.440227956	0.520817556	0.0198358	0.001281017	5.42E-01	1.47E+00	8.03E+00	3.62E-01	2.34E-02	*9.89E+00*	0.14870729	0.812327	0.03660192	0.00236379
X	Barium	91.133333	0.03208333	9.975	8.89	4.33	0.2977338	4.471196233	4.768930033	0.2135254	0.003240417	4.99E+00	6.88E-02	1.03E+00	4.93E-02	7.48E-04	*1.15E+00*	0.0597176	0.89680485	0.0428276	0.00064994
	Beryllium	0.5433333	4.5667E-05	0.007		0.53	0.000194	0	0.000194012	0.001273	4.61234E-06	1.47E-03	3.66E-04	0.00E+00	2.40E-03	8.69E-06	*2.77E-03*	0.1318326	0	0.86503329	0.00313412
	Cadmium	4.1666667	0.00056	0.111	0.45	0.78	0.0032982	0.224584353	0.227882557	0.0097625	0.00005656	2.38E-01	4.25E-03	2.90E-01	1.26E-02	7.29E-05	*3.06E-01*	0.0138754	0.94481626	0.0410704	0.00023795
	Chromium	185.33333	0.0062	2.200	3.46	7.24	0.0656656	1.742629644	1.808295244	0.434236	0.0006262	2.24E+00	9.07E-03	2.41E-01	6.00E-02	8.65E-05	*3.10E-01*	0.02927374	0.77686461	0.19358249	0.00027916
	Cobalt	12.233333	0.000985	0.540	1.09	4.02	0.0161179	0.546686361	0.562804281	0.0286627	0.000099485	5.92E-01	4.01E-03	1.36E-01	7.13E-03	2.47E-05	*1.47E-01*	0.02724617	0.92413345	0.04845221	0.00016817
	Copper	113.23333	0.00718333	62.250	5.73	12.23	1.858038	2.885566188	4.743604188	0.2653057	0.000725517	5.01E+00	1.52E-01	2.36E-01	2.17E-02	5.93E-05	*4.10E-01*	0.37089286	0.57600323	0.05295908	0.00014482
	Cyanide	0	0.0025	0.225		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	24000	1.20933333	342.500	1986.72	2.57	10.22294	999.619691	1009.842631	56.232	0.122142667	1.07E+03	3.99E+00	3.90E+02	2.19E+01	4.76E-02	*4.16E+02*	0.00958823	0.93755648	0.05274073	0.00011456
X	Lead	277	0.00330833	0.970	25.26	6.43	0.0289526	12.71013203	12.73908459	0.649011	0.000334142	1.34E+01	4.50E-03	1.98E+00	1.01E-01	5.19E-05	*2.08E+00*	0.00216251	0.94933702	0.04847551	2.4957E-05
X	Manganese	594.66667	0.5925	120.000	335.34	70.76	3.58176	168.7259056	172.3076656	1.393304	0.0598425	1.74E+02	5.06E-02	2.38E+00	1.97E-02	8.46E-04	*2.46E+00*	0.02061316	0.97102392	0.00801852	0.0003444
X	Mercury	1.4133333	0.00011583	0.014	0.05	0.03	0.0004179	0.024910501	0.025328373	0.0033114	1.16992E-05	2.87E-02	1.62E-02	9.68E-01	1.29E-01	4.55E-04	*1.11E+00*	0.01458464	0.86943059	0.11557645	0.00040833
	Nickel	25.9	0.00163333	0.103	0.67	32.17	0.0030594	0.336650638	0.339710058	0.0606837	0.000164967	4.01E-01	9.51E-05	1.05E-02	1.89E-03	5.13E-06	*1.25E-02*	0.00763788	0.84045264	0.15149764	0.00041184
	Selenium	2.6666667	0.00075	0.395	0.23	0.16	0.01179	0.115288948	0.127078908	0.006248	0.00007575	1.33E-01	7.33E-02	7.17E-01	3.88E-02	4.71E-04	*8.29E-01*	0.08837875	0.86421777	0.04683565	0.00056783
	Silver	0.3133333	0.000375	0.020		145.71	0.000582	0	0.000582036	0.0007341	0.000037875	1.35E-03	3.99E-06	0.00E+00	5.04E-06	2.60E-07	*9.29E-06*	0.42984794	0	0.54218044	0.02797162
	Thallium	0	0.00085	0.133		0.06	0.0039549	0	0.00395486	0	0.00008585	4.04E-03	6.58E-02	0.00E+00	0.00E+00	1.43E-03	*6.72E-02*	0.97875373	0	0	0.02124627
X	Vanadium	45.966667	0.00093333	0.158	1.60	0.16	0.0047011	0.804762875	0.809463935	0.1076999	9.42667E-05	9.17E-01	3.00E-02	5.13E+00	6.87E-01	6.01E-04	*5.85E+00*	0.00512512	0.87735706	0.11741504	0.00010277
	Zinc	463.66667	0.05855	27.750	17.95	128.66	0.828282	9.031411101	9.859693101	1.086371	0.00591355	1.10E+01	6.44E-03	7.02E-02	8.44E-03	4.60E-05	*8.51E-02*	0.07562853	0.82463747	0.09919405	0.00053995

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Volatile Organics																				
	2-Butanone	0	0.0025			9.730183192	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	*2.60E-05*	0	0	0	1
	Acetone	0.26	0.0025			1367.050531	0	0	0	0.00060918	0.0002525	8.62E-04	0.00E+00	0.00E+00	4.46E-07	1.85E-07	*6.30E-07*	0	0	0.70696778	0.29303222
	cis-1,2-Dichloroethene	0	0.0025			2504.114914	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07	*1.01E-07*	0	0	0	1
	Tetrachloroethene	0	0.0005			6.09153838	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06	*8.29E-06*	0	0	0	1
	Trichloroethene	0	0.0015			3.04576919	0	0	0	0	0.0001515	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	*4.97E-05*	0	0	0	1
	Semivolatile Organics																				
	2-Methylnaphthalene	0.12	0.0025			62.53	0	0	0	0.00028116	0.0002525	5.34E-04	0.00E+00	0.00E+00	4.50E-06	4.04E-06	*8.54E-06*	0	0	0.5268523	0.4731477
	Acenaphthylene	0.12	0.0025			58.00	0	0	0	0.00028116	0.0002525	5.34E-04	0.00E+00	0.00E+00	4.85E-06	4.35E-06	*9.20E-06*	0	0	0.5268523	0.4731477
	Anthracene	0.12	0.0025			435.11	0	0	0	0.00028116	0.0002525	5.34E-04	0.00E+00	0.00E+00	6.46E-07	5.80E-07	*1.23E-06*	0	0	0.5268523	0.4731477
	Benzo(a)anthracene	0.4	0.0025			0.57	0	0	0	0.0009372	0.0002525	1.19E-03	0.00E+00	0.00E+00	1.66E-03	4.46E-04	*2.10E-03*	0	0	0.78776162	0.21223838
	Benzo(a)pyrene	0.47	0.0025		0.07	0.57	0	0.037520054	0.037520054	0.00110121	0.0002525	3.89E-02	0.00E+00	6.63E-02	1.95E-03	4.46E-04	*6.87E-02*	0	0.96517677	0.02832785	0.00649538
	Benzo(b)fluoranthene	0.81	0.0025		0.06	0.57	0	0.031011135	0.031011135	0.00189783	0.0002525	3.32E-02	0.00E+00	5.48E-02	3.36E-03	4.46E-04	*5.86E-02*	0	0.93515576	0.05722998	0.00761426
	Benzo(g,h,i)perylene	0.23	0.0025			58.00	0	0	0	0.00053889	0.0002525	7.91E-04	0.00E+00	0.00E+00	9.29E-06	4.35E-06	*1.36E-05*	0	0	0.68094113	0.31905887
	Benzo(k)fluoranthene	0.18	0.0025		0.04	0.57	0	0.018023366	0.018023366	0.00042174	0.0002525	1.87E-02	0.00E+00	3.19E-02	7.46E-04	4.46E-04	*3.31E-02*	0	0.96393977	0.02255583	0.0135044
	Carbazole	0.12	0			58.00014758	0	0	0	0.00028116	0	2.81E-04	0.00E+00	0.00E+00	4.85E-06	0.00E+00	*4.85E-06*	0	0	1	0
	Chrysene	0.46	0.0025		0.05	0.57	0	0.026996066	0.026996066	0.00107778	0.0002525	2.83E-02	0.00E+00	4.77E-02	1.91E-03	4.46E-04	*5.01E-02*	0	0.95303736	0.03804868	0.00891396
	Dibenz(a,h)anthracene	0.12	0.0025			0.57	0	0	0	0.00028116	0.0002525	5.34E-04	0.00E+00	0.00E+00	4.97E-04	4.46E-04	*9.43E-04*	0	0	0.5268523	0.4731477
	Dibenzofuran	0.12	0.0025			58.00	0	0	0	0.00028116	0.0002525	5.34E-04	0.00E+00	0.00E+00	4.85E-06	4.35E-06	*9.20E-06*	0	0	0.5268523	0.4731477
	Fluoranthene	1	0.0025		0.05	54.39	0	0.02377081	0.02377081	0.002343	0.0002525	2.64E-02	0.00E+00	4.37E-04	4.31E-05	4.64E-06	*4.85E-04*	0	0.90155998	0.0888634	0.00957661
	Fluorene	0.12	0.0025			54.39	0	0	0	0.00028116	0.0002525	5.34E-04	0.00E+00	0.00E+00	5.17E-06	4.64E-06	*9.81E-06*	0	0	0.5268523	0.4731477
	Indeno(1,2,3-cd)pyrene	0.21	0.0025		0.09	0.57	0	0.044485235	0.044485235	0.00049203	0.0002525	4.52E-02	0.00E+00	7.86E-02	8.70E-04	4.46E-04	*8.00E-02*	0	0.98353894	0.01087846	0.00558261
	Naphthalene	0.12	0.0025			60.92	0	0	0	0.00028116	0.0002525	5.34E-04	0.00E+00	0.00E+00	4.62E-06	4.15E-06	*8.76E-06*	0	0	0.5268523	0.4731477
	N-nitrosodiphenylamine	0.12	0.0025			120.62	0	0	0	0.00028116	0.0002525	5.34E-04	0.00E+00	0.00E+00	2.33E-06	2.09E-06	*4.42E-06*	0	0	0.5268523	0.4731477
	Phenanthrene	0.45	0.0025		0.12	58.00	0	0.060939877	0.060939877	0.00105435	0.0002525	6.22E-02	0.00E+00	1.05E-03	1.82E-05	4.35E-06	*1.07E-03*	0	0.97900532	0.01693824	0.00405644
	Pyrene	0.86	0.0025		0.05	58.00	0	0.026512441	0.026512441	0.00201498	0.0002525	2.88E-02	0.00E+00	4.57E-04	3.47E-05	4.35E-06	*4.96E-04*	0	0.92121313	0.0700134	0.00877348
	Pesticides and PCBs																				
	4,4'-DDD	0.00047	0.00005	0.0033	2.43E-05	6.84	9.8498E-05	1.2217E-05	0.000110715	1.1012E-06	0.00000505	1.17E-04	1.44E-05	1.79E-06	1.61E-07	7.39E-07	*1.71E-05*	0.84282791	0.10453762	0.0094228	0.04321168
	4,4'-DDE	0.00078	0.00005	0.0080	3.39E-05	0.83	0.00023878	1.70411E-05	0.000255825	1.8275E-06	0.00000505	2.63E-04	2.89E-04	2.06E-05	2.21E-06	6.11E-06	*3.18E-04*	0.9089515	0.06486856	0.00695669	0.01922325
	4,4'-DDT	0.00047	0.00005	0.0011	7.55E-05	0.64	3.134E-05	3.7981E-05	6.93214E-05	1.1012E-06	0.00000505	7.55E-05	4.87E-05	5.90E-05	1.71E-06	7.85E-06	*1.17E-04*	0.41525552	0.50324188	0.01459086	0.06691173
	Aldrin	0.000235	0.000025	0.0003		0.16	8.059E-06	0	8.05896E-06	5.5061E-07	0.000002525	1.11E-05	5.01E-05	0.00E+00	3.42E-06	1.57E-05	*6.92E-05*	0.72377861	0	0.04945007	0.22677132
	alpha-Chlordane	0.000235	0.000025	0.0006	2.41E-05	1.99	1.8506E-05	1.21011E-05	3.06069E-05	5.5061E-07	0.000002525	3.37E-05	9.29E-06	6.07E-06	2.76E-07	1.27E-06	*1.69E-05*	0.5494177	0.35927064	0.01634692	0.07496475
	Aroclor 1248	0.0047	0.0005	0.0025		0.57	0.00007462	0	0.00007462	1.1012E-05	0.0000505	1.36E-04	1.32E-04	0.00E+00	1.95E-05	8.93E-05	*2.41E-04*	0.54814405	0	0.08089275	0.3709632
	Aroclor 1254	0.0047	0.0005	0.0220		0.15	0.00065666	0	0.000656656	1.1012E-05	0.0000505	7.18E-04	4.49E-03	0.00E+00	7.52E-05	3.45E-04	*4.91E-03*	0.9143486	0	0.0153336	0.0703178
	Aroclor 1260	0.0047	0.0005	0.0410	2.94E-04	0.28	0.00122377	0.000147693	0.001371461	1.1012E-05	0.0000505	1.43E-03	4.41E-03	5.32E-04	3.97E-05	1.82E-04	*5.17E-03*	0.85400611	0.10306769	0.00768479	0.03524141
	beta-BHC	0.000235	0.000025	0.0003		3.22	7.462E-06	0	0.000007462	5.5061E-07	0.000002525	1.05E-05	2.32E-06	0.00E+00	1.71E-07	7.85E-07	*3.28E-06*	0.70813055	0	0.05225144	0.23961802
	delta-BHC	0.000235	0.000025	0.0003		1.29	7.462E-06	0	0.000007462	5.5061E-07	0.000002525	1.05E-05	5.80E-06	0.00E+00	4.28E-07	1.96E-06	*8.19E-06*	0.70813055	0	0.05225144	0.23961802
	Endosulfan I	0.000235	0.000025	0.0003	3.87E-05	1.21	7.462E-06	1.94575E-05	2.69195E-05	5.5061E-07	0.000002525	3.00E-05	6.19E-06	1.61E-05	4.56E-07	2.09E-06	*2.49E-05*	0.24877388	0.64868925	0.01835649	0.08418039
	Endosulfan Sulfate	0.00047	0.00005	0.0007		1.21	2.1341E-05	0	2.13413E-05	1.1012E-06	0.00000505	2.75E-05	1.77E-05	0.00E+00	9.13E-07	4.19E-06	*2.28E-05*	0.77625886	0	0.04005488	0.18368626
	Endrin Aldehyde	0.00047	0.00005	0.0030	1.44E-04	0.04	8.8052E-05	7.26751E-05	0.000160727	1.1012E-06	0.00000505	1.67E-04	2.20E-03	1.82E-03	2.75E-05	1.26E-04	*4.17E-03*	0.52764072	0.43549874	0.00659889	0.03026164
	gamma-Chlordane	0.000235	0.000025	0.0003	2.26E-05	1.99	7.462E-06	1.13496E-05	1.88116E-05	5.5061E-07	0.000002525	2.19E-05	3.74E-06	5.70E-06	2.76E-07	1.27E-06	*1.10E-05*	0.34093056	0.51854844	0.02515654	0.11536447
	Inorganics																				
X	Aluminum	7975	0.14033333	52.700	1.33E+02	41.82	1.5729896	66.79075372	68.36374332	18.685425	0.014173667	8.71E+01	3.76E-02	1.60E+00	4.47E-01	3.39E-04	*2.08E+00*	0.01806719	0.76715127	0.21461874	0.0001628
	Antimony	2.83875	0.0006	0.055		0.05	0.00164164	0	0.00164164	0.00665119	0.0000606	8.35E-03	3.02E-02	0.00E+00	1.22E-01	1.11E-03	*1.54E-01*	0.19652284	0	0.79622266	0.0072545
X	Arsenic	252.05	0.01268333	2.700	13.28	0.05	0.0805896	6.684304602	6.764894202	0.30118211	0.001281017	7.07E+00	1.47E+00	1.22E+02	5.49E+00	2.34E-02	*1.29E+02*	0.01140307	0.94579972	0.04261594	0.00018126
	Barium	70.325	0.03208333	9.975	6.86	4.33	0.2977338	3.4502949	3.7480287	0.16477148	0.003240417	3.92E+00	6.88E-02	7.97E-01	3.81E-02	7.48E-04	*9.04E-01*	0.07602929	0.8810672	0.04207604	0.00082747
	Beryllium	0.535	4.5667E-05	0.007		0.53	0.00019401	0	0.000194012	0.00125351	4.61234E-06	1.45E-03	3.66E-04	0.00E+00	2.36E-03	8.69E-06	*2.74E-03*	0.13360518	0	0.86321856	0.00317626
	Cadmium	5.025	0.00056	0.111	0.54	0.78	0.0032982	0.270848727	0.274146931	0.01177358	0.00005656	2.86E-01	4.25E-03	3.49E-01	1.52E-02	7.29E-05	*3.69E-01*	0.01153311	0.94709947	0.04116965	0.00019778
	Chromium	529.5	0.0062	2.200	9.90	7.24	0.0656656	4.978717967	5.044383567	1.2406185	0.0006262	6.29E+00	9.07E-03	6.88E-01	1.71E-01	8.65E-05	*8.69E-01*	0.01044694	0.79207961	0.19737383	9.9624E-05
	Cobalt	22.05	0.000985	0.540	1.96	4.02	0.01611792	0.9853761	1.00149402	0.05166315	0.000099485	1.05E+00	4.01E-03	2.45E-01	1.28E-02	2.47E-05	*2.62E-01*	0.01530294	0.93555174	0.04905087	9.4455E-05
	Copper	303.75	0.00718333	62.250	15.38	12.23	1.858038	7.740571651	9.598609651	0.71168625	0.000725517	1.03E+01	1.52E-01	6.33E-01	5.82E-02	5.93E-05	*8.43E-01*	0.18019922	0.75070852	0.0690219	7.0363E-05
	Cyanide	0	0.0025	0.225		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	31425	1.20933333	342.500	2601.36	2.57	10.22294	1308.877033	1319.099973	73.628775	0.122142667	1.39E+03	3.99E+00	5.10E+02	2.87E+01	4.76E-02	*5.43E+02*	0.00733958	0.93971081	0.05286192	8.7693E-05
X	Lead	215.75	0.00330833	0.970	19.68	6.43	0.02895256	9.899678647	9.928631207	0.50550225	0.000334142	1.04E+01	4.50E-03	1.54E+00	7.86E-02	5.19E-05	*1.62E+00*	0.0027747	0.94874784	0.04844543	3.2023E-05
X	Manganese	767.25	0.5925	120.000	432.66	70.76	3.58176	217.6933034	221.2750634	1.79766675	0.0598425	2.23E+02	5.06E-02	3.08E+00	2.54E-02	8.46E-04	*3.15E+00*	0.01605216	0.97562315	0.0080565	0.00026819
X	Mercury	2.71	0.00011583	0.014	0.09	0.03	0.00041787	0.047764712	0.048182584	0.00634953	1.16992E-05	5.45E-02	1.62E-02	1.86E+00	2.47E-01	4.55E-04	*2.12E+00*	0.00766122	0.87571274	0.11641155	0.00021449
	Nickel	18.075	0.00163333	0.103	0.47	32.17	0.00305942	0.234940551	0.237999971	0.04234973	0.000164967	2.81E-01	9.51E-05	7.30E-03	1.32E-03	5.13E-06	*8.72E-03*	0.01090645	0.83753394	0.15097152	0.00058809
	Selenium	2.675	0.00075	0.395	0.23	0.16	0.01178996	0.115649225	0.127439185	0.00626753	0.00007575	1.34E-01	7.33E-02	7.19E-01	3.90E-02	4.71E-04	*8.32E-01*	0.08812785	0.86445731	0.04684863	0.00056622
	Silver	0.2166667	0.000375	0.020		145.71	0.00058204	0	0.000582036	0.00050765	0.000037875	1.13E-03	3.99E-06	0.00E+00	3.48E-06	2.60E-07	*7.74E-06*	0.51619022	0	0.45021958	0.0335902
	Thallium	0.35875	0.00085	0.133		0.06	0.00395486	0	0.00395486	0.00084055	0.00008585	4.88E-03	6.58E-02	0.00E+00	1.40E-02	1.43E-03	*8.12E-02*	0.81021273	0	0.1721996	0.01758767
X	Vanadium	31.475	0.00093333	0.158	1.10	0.16	0.00470106	0.551049561	0.555750621	0.07374593	9.42667E-05	6.30E-01	3.00E-02	3.51E+00	4.70E-01	6.01E-04	*4.02E+00*	0.00746685	0.87525032	0.1171331	0.00014973
	Zinc	1194.5	0.05855	27.750	46.24	128.66	0.828282	23.26675894	24.09504094	2.7987135	0.00591355	2.69E+01	6.44E-03	1.81E-01	2.18E-02	4.60E-05	*2.09E-01*	0.03079153	0.86494595	0.10404268	0.00021984

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Volatile Organics																				
	2-Butanone	0	0.0025			9.730183192	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	*2.60E-05*	0	0	0	1
	Acetone	0.2	0.0025			1367.050531	0	0	0	0.0004686	0.0002525	7.21E-04	0.00E+00	0.00E+00	3.43E-07	1.85E-07	*5.27E-07*	0	0	0.64984052	0.35015948
	cis-1,2-Dichloroethene	0	0.0025			2504.114914	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07	*1.01E-07*	0	0	0	1
	Tetrachloroethene	0	0.0005			6.09153838	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06	*8.29E-06*	0	0	0	1
	Trichloroethene	0	0.0015			3.04576919	0	0	0	0	0.0001515	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	*4.97E-05*	0	0	0	1
	Semivolatile Organics																				
	2-Methylnaphthalene	0.065	0.0025			62.53	0	0	0	0.0001523	0.0002525	4.05E-04	0.00E+00	0.00E+00	2.44E-06	4.04E-06	*6.47E-06*	0	0	0.37622747	0.62377253
	Acenaphthylene	0.065	0.0025			58.00	0	0	0	0.0001523	0.0002525	4.05E-04	0.00E+00	0.00E+00	2.63E-06	4.35E-06	*6.98E-06*	0	0	0.37622747	0.62377253
	Anthracene	0.065	0.0025			435.11	0	0	0	0.0001523	0.0002525	4.05E-04	0.00E+00	0.00E+00	3.50E-07	5.80E-07	*9.30E-07*	0	0	0.37622747	0.62377253
	Benzo(a)anthracene	0.11	0.0025			0.57	0	0	0	0.00025773	0.0002525	5.10E-04	0.00E+00	0.00E+00	4.56E-04	4.46E-04	*9.02E-04*	0	0	0.50512514	0.49487486
	Benzo(a)pyrene	0.14	0.0025		0.02	0.57	0	0.011176186	0.011176186	0.00032802	0.0002525	1.18E-02	0.00E+00	1.98E-02	5.80E-04	4.46E-04	*2.08E-02*	0	0.95062222	0.02790067	0.0214771
	Benzo(b)fluoranthene	0.26	0.0025		0.02	0.57	0	0.009954192	0.009954192	0.00060918	0.0002525	1.08E-02	0.00E+00	1.76E-02	1.08E-03	4.46E-04	*1.91E-02*	0	0.92033189	0.05632278	0.02334532
	Benzo(g,h,i)perylene	0.06	0.0025			58.00	0	0	0	0.00014058	0.0002525	3.93E-04	0.00E+00	0.00E+00	2.42E-06	4.35E-06	*6.78E-06*	0	0	0.35763712	0.64236288
	Benzo(k)fluoranthene	0.099	0.0025		0.02	0.57	0	0.009912851	0.009912851	0.00023196	0.0002525	1.04E-02	0.00E+00	1.75E-02	4.10E-04	4.46E-04	*1.84E-02*	0	0.95340554	0.02230933	0.02428513
	Carbazole	0.065	0			58.00014758	0	0	0	0.0001523	0	1.52E-04	0.00E+00	0.00E+00	2.63E-06	0.00E+00	*2.63E-06*	0	0	1	0
	Chrysene	0.16	0.0025		0.02	0.57	0	0.009389936	0.009389936	0.00037488	0.0002525	1.00E-02	0.00E+00	1.66E-02	6.63E-04	4.46E-04	*1.77E-02*	0	0.93737045	0.0374232	0.02520635
	Dibenz(a,h)anthracene	0.065	0.0025			0.57	0	0	0	0.0001523	0.0002525	4.05E-04	0.00E+00	0.00E+00	2.69E-04	4.46E-04	*7.16E-04*	0	0	0.37622747	0.62377253
	Dibenzofuran	0.065	0.0025			58.00	0	0	0	0.0001523	0.0002525	4.05E-04	0.00E+00	0.00E+00	2.63E-06	4.35E-06	*6.98E-06*	0	0	0.37622747	0.62377253
	Fluoranthene	0.29	0.0025		0.01	54.39	0	0.006893535	0.006893535	0.00067947	0.0002525	7.83E-03	0.00E+00	1.27E-04	1.25E-05	4.64E-06	*1.44E-04*	0	0.88090609	0.08682762	0.03226629
	Fluorene	0.065	0.0025			54.39	0	0	0	0.0001523	0.0002525	4.05E-04	0.00E+00	0.00E+00	2.80E-06	4.64E-06	*7.44E-06*	0	0	0.37622747	0.62377253
	Indeno(1,2,3-cd)pyrene	0.06	0.0025		0.03	0.57	0	0.012710067	0.012710067	0.00014058	0.0002525	1.31E-02	0.00E+00	2.25E-02	2.49E-04	4.46E-04	*2.32E-02*	0	0.9700011	0.01072872	0.01927018
	Naphthalene	0.065	0.0025			60.92	0	0	0	0.0001523	0.0002525	4.05E-04	0.00E+00	0.00E+00	2.50E-06	4.15E-06	*6.65E-06*	0	0	0.37622747	0.62377253
	N-nitrosodiphenylamine	0.065	0.0025			120.62	0	0	0	0.0001523	0.0002525	4.05E-04	0.00E+00	0.00E+00	1.26E-06	2.09E-06	*3.36E-06*	0	0	0.37622747	0.62377253
	Phenanthrene	0.13	0.0025		0.03	58.00	0	0.017604853	0.017604853	0.00030459	0.0002525	1.82E-02	0.00E+00	3.04E-04	5.25E-06	4.35E-06	*3.13E-04*	0	0.96932652	0.01677078	0.0139027
	Pyrene	0.27	0.0025		0.02	58.00	0	0.008323673	0.008323673	0.00063261	0.0002525	9.21E-03	0.00E+00	1.44E-04	1.09E-05	4.35E-06	*1.59E-04*	0	0.90388415	0.06869637	0.02741947
	Pesticides and PCBs																				
	4,4'-DDD	0.0012	0.00005	0.0033	6.20E-05	6.84	9.8498E-05	3.11922E-05	0.000129691	2.8116E-06	0.00000505	1.38E-04	1.44E-05	4.56E-06	4.11E-07	7.39E-07	*2.01E-05*	0.71608006	0.22676637	0.02044024	0.03671333
	4,4'-DDE	0.0017	0.00005	0.0080	7.38E-05	0.83	0.00023878	3.7141E-05	0.000275925	3.9831E-06	0.00000505	2.85E-04	2.89E-04	4.49E-05	4.82E-06	6.11E-06	*3.45E-04*	0.83796192	0.13033833	0.01397785	0.01772191
	4,4'-DDT	0.00055	0.00005	0.0011	8.83E-05	0.64	3.134E-05	4.44458E-05	7.57862E-05	1.2887E-06	0.00000505	8.21E-05	4.87E-05	6.91E-05	2.00E-06	7.85E-06	*1.28E-04*	0.38161896	0.54119794	0.01569135	0.06149174
	Aldrin	0.000265	0.000025	0.0003		0.16	8.059E-06	0	8.05896E-06	6.209E-07	0.000002525	1.12E-05	5.01E-05	0.00E+00	3.86E-06	1.57E-05	*6.97E-05*	0.71923822	0	0.05541303	0.22534874
	alpha-Chlordane	0.000265	0.000025	0.0006	2.71E-05	1.99	1.8506E-05	1.3646E-05	3.21517E-05	6.209E-07	0.000002525	3.53E-05	9.29E-06	6.85E-06	3.12E-07	1.27E-06	*1.77E-05*	0.52427795	0.38659718	0.01759028	0.07153458
	Aroclor 1248	0.0055	0.0005	0.0025		0.57	0.00007462	0	0.00007462	1.2887E-05	0.0000505	1.38E-04	1.32E-04	0.00E+00	2.28E-05	8.93E-05	*2.44E-04*	0.54069917	0	0.09337604	0.36592479
	Aroclor 1254	0.0055	0.0005	0.0220		0.15	0.00065666	0	0.000656656	1.2887E-05	0.0000505	7.20E-04	4.49E-03	0.00E+00	8.80E-05	3.45E-04	*4.92E-03*	0.91196839	0	0.01789686	0.07013475
	Aroclor 1260	0.0055	0.0005	0.0410	3.43E-04	0.28	0.00122377	0.000172833	0.001396601	1.2887E-05	0.0000505	1.46E-03	4.41E-03	6.23E-04	4.64E-05	1.82E-04	*5.26E-03*	0.83820471	0.1183795	0.00882645	0.03458935
	beta-BHC	0.000265	0.000025	0.0003		3.22	7.462E-06	0	0.000007462	6.209E-07	0.000002525	1.06E-05	2.32E-06	0.00E+00	1.93E-07	7.85E-07	*3.30E-06*	0.70343834	0	0.05853141	0.23803026
	delta-BHC	0.000265	0.000025	0.0003		1.29	7.462E-06	0	0.000007462	6.209E-07	0.000002525	1.06E-05	5.80E-06	0.00E+00	4.83E-07	1.96E-06	*8.24E-06*	0.70343834	0	0.05853141	0.23803026
	Endosulfan I	0.000265	0.000025	0.0003	4.36E-05	1.21	7.462E-06	2.19414E-05	2.94034E-05	6.209E-07	0.000002525	3.25E-05	6.19E-06	1.82E-05	5.15E-07	2.09E-06	*2.70E-05*	0.22925198	0.67409798	0.0190755	0.07757454
	Endosulfan Sulfate	0.00055	0.00005	0.0007		1.21	2.1341E-05	0	2.13413E-05	1.2887E-06	0.00000505	2.77E-05	1.77E-05	0.00E+00	1.07E-06	4.19E-06	*2.29E-05*	0.77100228	0	0.04655533	0.18244239
	Endrin Aldehyde	0.00055	0.00005	0.0030	1.69E-04	0.04	8.8052E-05	8.50454E-05	0.000173097	1.2887E-06	0.00000505	1.79E-04	2.20E-03	2.12E-03	3.22E-05	1.26E-04	*4.48E-03*	0.49071416	0.47396036	0.00718168	0.0281438
	gamma-Chlordane	0.000265	0.000025	0.0003	2.54E-05	1.99	7.462E-06	1.27984E-05	2.02604E-05	6.209E-07	0.000002525	2.34E-05	3.74E-06	6.42E-06	3.12E-07	1.27E-06	*1.17E-05*	0.31880273	0.54679363	0.02652681	0.10787683
	Inorganics																				
X	Aluminum	9602.5	0.14033333	52.700	1.60E+02	41.82	1.5729896	80.42109249	81.99408209	22.4986575	0.014173667	1.05E+02	3.76E-02	1.92E+00	5.38E-01	3.39E-04	*2.50E+00*	0.01505154	0.76952892	0.21528392	0.00013562
	Antimony	5.725	0.0006	0.055		0.05	0.00164164	0	0.00164164	0.01341368	0.0000606	1.51E-02	3.02E-02	0.00E+00	2.47E-01	1.11E-03	*2.78E-01*	0.10860342	0	0.88738756	0.00400902
X	Arsenic	241	0.01268333	2.700	12.70	0.05	0.0805896	6.391261294	6.471850894	0.28797813	0.001281017	6.76E+00	1.47E+00	1.17E+02	5.25E+00	2.34E-02	*1.23E+02*	0.01191958	0.94529763	0.04259332	0.00018947
	Barium	62.125	0.03208333	9.975	6.06	4.33	0.2977338	3.047985363	3.345719163	0.14555888	0.003240417	3.49E+00	6.88E-02	7.04E-01	3.36E-02	7.48E-04	*8.07E-01*	0.08520024	0.87221899	0.04165349	0.00092729
	Beryllium	0.565	4.5667E-05	0.007		0.53	0.00019401	0	0.000194012	0.0013238	4.61234E-06	1.52E-03	3.66E-04	0.00E+00	2.49E-03	8.69E-06	*2.87E-03*	0.12743664	0	0.86953375	0.00302961
	Cadmium	5.55	0.00056	0.111	0.59	0.78	0.0032982	0.299146355	0.302444559	0.01300365	0.00005656	3.16E-01	4.25E-03	3.86E-01	1.68E-02	7.29E-05	*4.07E-01*	0.01045374	0.94815161	0.04121538	0.00017927
X	Chromium	986.75	0.0062	2.200	18.44	7.24	0.0656656	9.278092454	9.343758054	2.31195525	0.0006262	1.17E+01	9.07E-03	1.28E+00	3.19E-01	8.65E-05	*1.61E+00*	0.00563347	0.79596965	0.19834316	5.3722E-05
	Cobalt	20.25	0.000985	0.540	1.80	4.02	0.01611792	0.904937235	0.921055155	0.04744575	0.000099485	9.69E-01	4.01E-03	2.25E-01	1.18E-02	2.47E-05	*2.41E-01*	0.01664042	0.93427304	0.04898382	0.00010271
X	Copper	407.25	0.00718333	62.250	20.63	12.23	1.858038	10.37809977	12.23613777	0.95418675	0.000725517	1.32E+01	1.52E-01	8.48E-01	7.80E-02	5.93E-05	*1.08E+00*	0.14085596	0.78675312	0.07233592	5.5001E-05
	Cyanide	0	0.0025	0.225		51.90	0.0067158	0	0.0067158	0	0.0002525	0.00E+00	1.29E-04	0.00E+00	0.00E+00	4.87E-06	*1.34E-04*	0.96376448	0	0	0.03623552
X	Iron	30475	1.20933333	342.500	2522.71	2.57	10.22294	1269.308753	1279.531693	71.402925	0.122142667	1.35E+03	3.99E+00	4.95E+02	2.78E+01	4.76E-02	*5.27E+02*	0.00756663	0.93949328	0.05284969	9.0405E-05
X	Lead	197.75	0.00330833	0.970	18.03	6.43	0.02895256	9.07374949	9.10270205	0.46332825	0.000334142	9.57E+00	4.50E-03	1.41E+00	7.20E-02	5.19E-05	*1.49E+00*	0.0030265	0.94850552	0.04843305	3.4929E-05
X	Manganese	593.75	0.5925	120.000	334.82	70.76	3.58176	168.4658181	172.0475781	1.39115625	0.0598425	1.73E+02	5.06E-02	2.38E+00	1.97E-02	8.46E-04	*2.45E+00*	0.02064432	0.97099251	0.00801826	0.00034492
X	Mercury	3.15	0.00011583	0.014	0.11	0.03	0.00041787	0.055519868	0.05593774	0.00738045	1.16992E-05	6.33E-02	1.62E-02	2.16E+00	2.87E-01	4.55E-04	*2.46E+00*	0.00659834	0.87667717	0.11653976	0.00018473
	Nickel	14.85	0.00163333	0.103	0.38	32.17	0.00305942	0.193021698	0.196081118	0.03479355	0.000164967	2.31E-01	9.51E-05	6.00E-03	1.08E-03	5.13E-06	*7.18E-03*	0.01324197	0.83544842	0.15059559	0.00071402
	Selenium	2.99875	0.00075	0.395	0.26	0.16	0.01178996	0.129646024	0.141435984	0.00702607	0.00007575	1.49E-01	7.33E-02	8.06E-01	4.37E-02	4.71E-04	*9.24E-01*	0.07937346	0.872815	0.04730157	0.00050997
	Silver	1.47375	0.000375	0.020		145.71	0.00058204	0	0.000582036	0.003453	0.000037875	4.07E-03	3.99E-06	0.00E+00	2.37E-05	2.60E-07	*2.80E-05*	0.14290431	0	0.84779644	0.00929925
	Thallium	0.39125	0.00085	0.133		0.06	0.00395486	0	0.00395486	0.0009167	0.00008585	4.96E-03	6.58E-02	0.00E+00	1.52E-02	1.43E-03	*8.24E-02*	0.79776758	0	0.1849149	0.01731751
X	Vanadium	30	0.00093333	0.158	1.04	0.16	0.00470106	0.525225951	0.529927011	0.07029	9.42667E-05	6.00E-01	3.00E-02	3.35E+00	4.48E-01	6.01E-04	*3.83E+00*	0.00783104	0.87492268	0.11708925	0.00015703
	Zinc	940.25	0.05855	27.750	36.40	128.66	0.828282	18.31441615	19.14269815	2.20300575	0.00591355	2.14E+01	6.44E-03	1.42E-01	1.71E-02	4.60E-05	*1.66E-01*	0.03879247	0.8577531	0.10317746	0.00027696

Table E.1-39. Exposure Calculatioins for Muskrat - Station UF

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 6	Reach 6																	
	Inorganics																				
X	Aluminum	22200	0.205525	23.850	3.70E+02	41.82	0.7118748	185.9253583	186.6372331	52.0146	0.020758025	2.39E+02	1.70E-02	4.45E+00	1.24E+00	4.96E-04	*5.71E+00*	0.00298264	0.77899753	0.21793286	8.6973E-05
	Antimony	0	0.0006	0.047		0.05	0.0014029	0	0.001402856	0	0.0000606	0.00E+00	2.58E-02	0.00E+00	0.00E+00	1.11E-03	*2.69E-02*	0.95859117	0	0	0.04140883
X	Arsenic	124	0.0035875	0.240	6.54	0.05	0.0071635	3.288449794	3.295613314	0.1481713	0.000362338	3.44E+00	1.31E-01	6.00E+01	2.70E+00	6.61E-03	*6.28E+01*	0.00207991	0.95479369	0.0430212	0.0001052
X	Barium	181	0.0376	2.000	17.65	4.33	0.059696	8.880247094	8.939943094	0.424083	0.0037976	9.37E+00	1.38E-02	2.05E+00	9.79E-02	8.77E-04	*2.16E+00*	0.00637245	0.94795199	0.04527017	0.00040539
	Beryllium	1.2	4.0625E-05	0.006		0.53	0.0001791	0	0.000179088	0.0028116	4.10313E-06	2.99E-03	3.37E-04	0.00E+00	5.30E-03	7.73E-06	*5.64E-03*	0.05979983	0	0.93883008	0.00137009
	Cadmium	11.7	4.9625E-05	0.063	1.25	0.78	0.0018655	0.630632857	0.632498357	0.0274131	5.01213E-06	6.60E-01	2.41E-03	8.13E-01	3.53E-02	6.46E-06	*8.51E-01*	0.00282687	0.95562527	0.04154026	7.5951E-06
	Chromium	467	0.0016675	0.200	8.73	7.24	0.0059696	4.391050596	4.397020196	1.094181	0.000168418	5.49E+00	8.25E-04	6.07E-01	1.51E-01	2.33E-05	*7.59E-01*	0.00108709	0.79962758	0.19925466	3.0669E-05
	Cobalt	27.15	0.0002575	0.270	2.41	4.02	0.008059	1.213286218	1.221345178	0.0636125	2.60075E-05	1.28E+00	2.00E-03	3.02E-01	1.58E-02	6.47E-06	*3.20E-01*	0.00627164	0.94420363	0.04950448	2.024E-05
X	Copper	523	0.004375	40.550	26.49	12.23	1.2103364	13.32779909	14.53813549	1.225389	0.000441875	1.58E+01	9.89E-02	1.09E+00	1.00E-01	3.61E-05	*1.29E+00*	0.07677867	0.84545975	0.07773355	2.8031E-05
	Cyanide	1.4	0.0025	0.190		51.90	0.0056711	0	0.00567112	0.0032802	0.0002525	9.20E-03	1.09E-04	0.00E+00	6.32E-05	4.87E-06	*1.77E-04*	0.61617024	0	0.3563955	0.02743426
X	Iron	45600	0.65775	88.250	3774.76	2.57	2.634086	1899.277413	1901.911499	106.8408	0.06643275	2.01E+03	1.03E+00	7.40E+02	4.16E+01	2.59E-02	*7.83E+02*	0.00131126	0.94546978	0.05318588	3.3071E-05
X	Lead	733.5	0.00343125	0.213	66.89	6.43	0.0063427	33.65661315	33.66295585	1.7185905	0.000346556	3.54E+01	9.86E-04	5.23E+00	2.67E-01	5.39E-05	*5.50E+00*	0.00017926	0.95123834	0.0485726	9.7947E-06
X	Manganese	900.5	0.176575	79.100	507.80	70.76	2.3609768	255.5005796	257.8615564	2.1098715	0.017834075	2.60E+02	3.34E-02	3.61E+00	2.98E-02	2.52E-04	*3.67E+00*	0.00908106	0.98273512	0.00811523	6.8595E-05
X	Mercury	1.85	0.00006775	0.008	0.06	0.03	0.0002388	0.032606907	0.032845691	0.0043346	6.84275E-06	3.72E-02	9.28E-03	1.27E+00	1.68E-01	2.66E-04	*1.45E+00*	0.00642115	0.8768342	0.11656063	0.00018401
	Nickel	46.95	0.0013725	0.042	1.21	32.17	0.0012387	0.610260519	0.611499211	0.1100039	0.000138623	7.22E-01	3.85E-05	1.90E-02	3.42E-03	4.31E-06	*2.24E-02*	0.00171649	0.84565586	0.15243555	0.00019209
	Selenium	2.25	0.00075	0.515	0.19	0.16	0.0153717	0.097275049	0.112646769	0.0052718	0.00007575	1.18E-01	9.56E-02	6.05E-01	3.28E-02	4.71E-04	*7.34E-01*	0.13027514	0.82440486	0.04467802	0.00064198
	Silver	0.81	0.0003725	0.064		145.71	0.0018953	0	0.001895348	0.0018978	3.76225E-05	3.83E-03	1.30E-05	0.00E+00	1.30E-05	2.58E-07	*2.63E-05*	0.49476552	0	0.49541343	0.00982105
	Thallium	0.77	0.00085	0.065		0.06	0.0019401	0	0.00194012	0.0018041	0.00008585	3.83E-03	3.23E-02	0.00E+00	3.00E-02	1.43E-03	*6.37E-02*	0.50654817	0	0.47103716	0.02241468
X	Vanadium	82.1	0.00086375	0.042	2.86	0.16	0.0012536	1.437368354	1.43862197	0.1923603	8.72388E-05	1.63E+00	8.00E-03	9.17E+00	1.23E+00	5.56E-04	*1.04E+01*	0.00076859	0.88124286	0.11793507	5.3486E-05
	Zinc	2330	0.022325	18.350	90.20	128.66	0.5477108	45.38430165	45.93201245	5.45919	0.002254825	5.14E+01	4.26E-03	3.53E-01	4.24E-02	1.75E-05	*3.99E-01*	0.01065721	0.88307547	0.10622344	4.3874E-05

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0	0.0025			9.730183192	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	*2.60E-05*	0	0	0	1
	Acetone	0	0.0025			1367.050531	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-07	*1.85E-07*	0	0	0	1
	cis-1,2-Dichloroethene	0.082	0.00058333			2504.114914	0	0	0	0.00019213	5.89167E-05	2.51E-04	0.00E+00	0.00E+00	7.67E-08	2.35E-08	*1.00E-07*	0	0	0.76531215	0.23468785
	Tetrachloroethene	0.1185	0.0005			6.09153838	0	0	0	0.00027765	0.0000505	3.28E-04	0.00E+00	0.00E+00	4.56E-05	8.29E-06	*5.39E-05*	0	0	0.84610485	0.15389515
	Trichloroethene	0.042	0.0005			3.04576919	0	0	0	9.8406E-05	0.0000505	1.49E-04	0.00E+00	0.00E+00	3.23E-05	1.66E-05	*4.89E-05*	0	0	0.66085987	0.33914013
	Semivolatile Organics																				
	2-Methylnaphthalene	0.003	0.0025			62.53	0	0	0	7.029E-06	0.0002525	2.60E-04	0.00E+00	0.00E+00	1.12E-07	4.04E-06	*4.15E-06*	0	0	0.02708368	0.97291632
	Acenaphthylene	0.001	0.0025			58.00	0	0	0	2.343E-06	0.0002525	2.55E-04	0.00E+00	0.00E+00	4.04E-08	4.35E-06	*4.39E-06*	0	0	0.0091939	0.9908061
	Anthracene	0.018	0.0025			435.11	0	0	0	4.2174E-05	0.0002525	2.95E-04	0.00E+00	0.00E+00	9.69E-08	5.80E-07	*6.77E-07*	0	0	0.14312087	0.85687913
	Benzo(a)anthracene	0.13	0.0025			0.57	0	0	0	0.00030459	0.0002525	5.57E-04	0.00E+00	0.00E+00	5.38E-04	4.46E-04	*9.85E-04*	0	0	0.54675187	0.45324813
	Benzo(a)pyrene	0.16	0.0025		0.03	0.57	0	0.012772784	0.012772784	0.00037488	0.0002525	1.34E-02	0.00E+00	2.26E-02	6.63E-04	4.46E-04	*2.37E-02*	0	0.95318117	0.02797578	0.01884305
	Benzo(b)fluoranthene	0.29	0.0025		0.02	0.57	0	0.011102752	0.011102752	0.00067947	0.0002525	1.20E-02	0.00E+00	1.96E-02	1.20E-03	4.46E-04	*2.13E-02*	0	0.92255991	0.05645914	0.02098096
	Benzo(g,h,i)perylene	0.12	0.0025			58.00	0	0	0	0.00028116	0.0002525	5.34E-04	0.00E+00	0.00E+00	4.85E-06	4.35E-06	*9.20E-06*	0	0	0.5268523	0.4731477
	Benzo(k)fluoranthene	0.2	0.0025		0.04	0.57	0	0.020025962	0.020025962	0.0004686	0.0002525	2.07E-02	0.00E+00	3.54E-02	8.28E-04	4.46E-04	*3.67E-02*	0	0.96524327	0.02258633	0.0121704
	Carbazole	0	0			58.00014758	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*				
	Chrysene	0.23	0.0025		0.03	0.57	0	0.013498033	0.013498033	0.00053889	0.0002525	1.43E-02	0.00E+00	2.39E-02	9.53E-04	4.46E-04	*2.53E-02*	0	0.94461708	0.03771251	0.01767041
	Dibenz(a,h)anthracene	0.046	0.0025			0.57	0	0	0	0.00010778	0.0002525	3.60E-04	0.00E+00	0.00E+00	1.91E-04	4.46E-04	*6.37E-04*	0	0	0.29915232	0.70084768
	Dibenzofuran	0	0.0025			58.00	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06	*4.35E-06*	0	0	0	1
	Fluoranthene	0.41	0.0025		0.02	54.39	0	0.009746032	0.009746032	0.00096063	0.0002525	1.10E-02	0.00E+00	1.79E-04	1.77E-05	4.64E-06	*2.01E-04*	0	0.88930449	0.08765542	0.02304008
	Fluorene	0.014	0.0025			54.39	0	0	0	3.2802E-05	0.0002525	2.85E-04	0.00E+00	0.00E+00	6.03E-07	4.64E-06	*5.25E-06*	0	0	0.11497291	0.88502709
	Indeno(1,2,3-cd)pyrene	0.14	0.0025		0.06	0.57	0	0.029656823	0.029656823	0.00032802	0.0002525	3.02E-02	0.00E+00	5.24E-02	5.80E-04	4.46E-04	*5.35E-02*	0	0.98080122	0.01084818	0.0083506
	Naphthalene	0.012	0.0025			60.92	0	0	0	2.8116E-05	0.0002525	0.00E+00	0.00E+00	0.00E+00	4.62E-07	4.15E-06	*4.61E-06*	0	0	0.10019386	0.89980614
	N-nitrosodiphenylamine	0	0.0025			120.62	0	0	0	0	0.0002525	2.53E-04	0.00E+00	0.00E+00	0.00E+00	2.09E-06	*2.09E-06*	0	0	0	1
	Phenanthrene	0.16	0.0025		0.04	58.00	0	0.021667512	0.021667512	0.00037488	0.0002525	2.23E-02	0.00E+00	3.74E-04	6.46E-06	4.35E-06	*3.84E-04*	0	0.97185992	0.01681461	0.01132546
	Pyrene	0.34	0.0025		0.02	58.00	0	0.010481663	0.010481663	0.00079662	0.0002525	1.15E-02	0.00E+00	1.81E-04	1.37E-05	4.35E-06	*1.99E-04*	0	0.90901572	0.06908638	0.02189791
	Pesticides and PCBs																				
	4,4'-DDD	0.009	0.00005	0.0006	4.65E-04	6.84	1.9252E-05	0.000233942	0.000253194	2.1087E-05	0.00000505	2.79E-04	2.82E-06	3.42E-05	3.09E-06	7.39E-07	*4.09E-05*	0.06892177	0.8375081	0.07549119	0.01807894
	4,4'-DDE	0.0032	0.00005	0.0010	1.39E-04	0.83	2.9102E-05	6.99124E-05	9.90142E-05	7.4976E-06	0.00000505	1.12E-04	3.52E-05	8.46E-05	9.07E-06	6.11E-06	*1.35E-04*	0.26085813	0.62666967	0.06720581	0.04526639
	4,4'-DDT	0.000165	0.00005	0.0011	2.65E-05	0.64	3.2087E-05	1.33337E-05	4.54203E-05	3.866E-07	0.00000505	5.09E-05	4.99E-05	2.07E-05	6.01E-07	7.85E-06	*7.91E-05*	0.63091887	0.26218135	0.00760162	0.09929816
	Aldrin	0.00008	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	1.8744E-07	0.000002525	1.18E-05	5.66E-05	0.00E+00	1.17E-06	1.57E-05	*7.35E-05*	0.77044502	0	0.01586313	0.21369185
	alpha-Chlordane	0.00098	2.1729E-05	0.0006	1.00E-04	1.99	1.8655E-05	5.04643E-05	6.91193E-05	2.2961E-06	2.19459E-06	7.36E-05	9.36E-06	2.53E-05	1.15E-06	1.10E-06	*3.69E-05*	0.25343016	0.68556282	0.03119331	0.02981372
	Aroclor 1248	0.035	0.0005	0.0025		0.57	0.00007462	0	0.00007462	8.2005E-05	0.0000505	2.07E-04	1.32E-04	0.00E+00	1.45E-04	8.93E-05	*3.66E-04*	0.36026554	0	0.39592034	0.24381412
	Aroclor 1254	0.00165	0.0005	0.0195		0.15	0.00058204	0	0.000582036	3.866E-06	0.0000505	6.36E-04	3.98E-03	0.00E+00	2.64E-05	3.45E-04	*4.35E-03*	0.91457294	0	0.0060747	0.07935237
	Aroclor 1260	0.011	0.0005	0.0215	6.87E-04	0.28	0.00064173	0.000345665	0.000987397	2.5773E-05	0.0000505	1.06E-03	2.31E-03	1.25E-03	9.29E-05	1.82E-04	*3.83E-03*	0.60331866	0.32497395	0.02423026	0.04747713
	beta-BHC	0.00008	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	1.8744E-07	0.000002525	1.03E-05	2.37E-06	0.00E+00	5.83E-08	7.85E-07	*3.21E-06*	0.73726036	0	0.01815632	0.24458333
	delta-BHC	0.00008	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	1.8744E-07	0.000002525	1.03E-05	5.92E-06	0.00E+00	1.46E-07	1.96E-06	*8.02E-06*	0.73726036	0	0.01815632	0.24458333
	Endosulfan I	0.00044	0.000025	0.0006	7.24E-05	1.21	1.8655E-05	3.64311E-05	5.50861E-05	1.0309E-06	0.000002525	5.86E-05	1.55E-05	3.02E-05	8.55E-07	2.09E-06	*4.86E-05*	0.31811674	0.62124549	0.01757989	0.04305788
	Endosulfan Sulfate	0.000165	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	3.866E-07	0.00000505	3.36E-05	2.34E-05	0.00E+00	3.21E-07	4.19E-06	*2.79E-05*	0.83840317	0	0.01149111	0.15010572
	Endrin Aldehyde	0.000165	0.00005	0.0022	5.07E-05	0.04	6.5666E-05	2.55136E-05	9.11792E-05	3.866E-07	0.00000505	9.66E-05	1.64E-03	6.37E-04	9.66E-06	1.26E-04	*2.41E-03*	0.6796569	0.26407285	0.00400136	0.05226888
	gamma-Chlordane	0.00059	2.1629E-05	0.0003	5.66E-05	1.99	7.6112E-06	2.84946E-05	3.61059E-05	1.3824E-06	2.18449E-06	3.97E-05	3.82E-06	1.43E-05	6.94E-07	1.10E-06	*1.99E-05*	0.19185075	0.71824215	0.03484435	0.05506275
	Inorganics																				
X	Aluminum	13754.7619	0.38611429	47.900	2.29E+02	41.82	1.4297192	115.1963529	116.6260721	32.2274071	0.038997543	1.49E+02	3.42E-02	2.75E+00	7.71E-01	9.33E-04	*3.56E+00*	0.00960236	0.7736882	0.21644752	0.00026192
	Antimony	5.9894737	0.00069286	0.050		0.05	0.00148494	0	0.001484938	0.01403334	6.99786E-05	1.56E-02	2.73E-02	0.00E+00	2.58E-01	1.29E-03	*2.87E-01*	0.09526006	0	0.90025075	0.00448919
X	Arsenic	136.383333	0.02458571	3.750	7.19	0.05	0.11193	3.616852777	3.728782777	0.16296854	0.002483157	3.89E+00	2.04E+00	6.60E+01	2.97E+00	4.53E-02	*7.10E+01*	0.02874249	0.92877119	0.04184867	0.00063765
	Barium	78.5904762	0.03734286	8.800	7.66	4.33	0.2626624	3.855816839	4.118479239	0.18413749	0.003771629	4.31E+00	6.07E-02	8.90E-01	4.25E-02	8.71E-04	*9.94E-01*	0.06099366	0.89537137	0.04275915	0.00087582
	Beryllium	1.2159524	6.3786E-05	0.006		0.53	0.00017909	0	0.000179088	0.00284898	6.44236E-06	3.03E-03	3.37E-04	0.00E+00	5.37E-03	1.21E-05	*5.72E-03*	0.05901717	0	0.9388598	0.00212303
	Cadmium	5.2114286	0.00043	0.057	0.56	0.78	0.00170134	0.280897274	0.28259861	0.01221038	0.00004343	2.95E-01	2.19E-03	3.62E-01	1.57E-02	5.60E-05	*3.80E-01*	0.00577013	0.95267075	0.04141183	0.00014729
	Chromium	560.990476	0.02578571	0.895	10.48	7.24	0.02671396	5.274812773	5.301526733	1.31440069	0.002604357	6.62E+00	3.69E-03	7.29E-01	1.82E-01	3.60E-04	*9.14E-01*	0.00403624	0.79697627	0.198594	0.00039349
	Cobalt	15.7238095	0.00146857	0.485	1.40	4.02	0.01447628	0.702669664	0.717145944	0.03684089	0.000148326	7.54E-01	3.60E-03	1.75E-01	9.16E-03	3.69E-05	*1.88E-01*	0.01919587	0.93175561	0.04885183	0.00019668
X	Copper	482.752381	0.02154286	54.350	24.45	12.23	1.6222388	12.30215439	13.92439319	1.13108883	0.002175829	1.51E+01	1.33E-01	1.01E+00	9.25E-02	1.78E-04	*1.23E+00*	0.10773513	0.81700318	0.07511718	0.0001445
	Cyanide	0.8715	0.0025	0.268		51.90	0.00798434	0	0.00798434	0.00204192	0.0002525	1.03E-02	1.54E-04	0.00E+00	3.93E-05	4.87E-06	*1.98E-04*	0.77678013	0	0.19865466	0.02456521
X	Iron	20480	2.401	577.500	1695.33	2.57	17.23722	853.008803	870.246023	47.98464	0.242501	9.18E+02	6.72E+00	3.33E+02	1.87E+01	9.45E-02	*3.58E+02*	0.01876725	0.9287248	0.05224392	0.00026403
X	Lead	428.638095	0.01307286	0.515	39.09	6.43	0.01537172	19.66803893	19.68341065	1.00429906	0.001320358	2.07E+01	2.39E-03	3.06E+00	1.56E-01	2.05E-04	*3.22E+00*	0.00074299	0.9506506	0.04854259	6.3819E-05
X	Manganese	702.280952	0.46971429	88.700	396.02	70.76	2.6475176	199.2595118	201.9070294	1.64544427	0.047441143	2.04E+02	3.74E-02	2.82E+00	2.33E-02	6.70E-04	*2.88E+00*	0.01300353	0.97868171	0.00808175	0.00023301
X	Mercury	1.3652381	0.00020393	0.009	0.05	0.03	0.00026863	0.024062806	0.024331438	0.00319875	2.05968E-05	2.76E-02	1.04E-02	9.35E-01	1.24E-01	8.00E-04	*1.07E+00*	0.00975043	0.87339811	0.11610386	0.00074759
	Nickel	28.3047619	0.00284286	0.068	0.73	32.17	0.00201474	0.367907959	0.369922699	0.06631806	0.000287129	4.37E-01	6.26E-05	1.14E-02	2.06E-03	8.93E-06	*1.36E-02*	0.00461538	0.84280517	0.1519217	0.00065776
X	Selenium	3.6542857	0.00085714	0.330	0.31	0.16	0.00984984	0.157987031	0.167836871	0.00856199	8.65714E-05	1.76E-01	6.12E-02	9.82E-01	5.32E-02	5.38E-04	*1.10E+00*	0.05581106	0.89518454	0.04851387	0.00049053
	Silver	0.3811905	0.00025	0.037		145.71	0.00110438	0	0.001104376	0.00089313	0.00002525	2.02E-03	7.58E-06	0.00E+00	6.13E-06	1.73E-07	*1.39E-05*	0.54597606	0	0.44154096	0.01248297
	Thallium	0.3595238	0.00077857	0.068		0.06	0.00201474	0	0.00201474	0.00084236	7.86357E-05	2.94E-03	3.35E-02	0.00E+00	1.40E-02	1.31E-03	*4.88E-02*	0.68628013	0	0.28693422	0.02678565
X	Vanadium	53.9380952	0.00187893	0.138	1.88	0.16	0.0041041	0.944322912	0.948427012	0.12637696	0.000189772	1.07E+00	2.62E-02	6.02E+00	8.06E-01	1.21E-03	*6.86E+00*	0.00381779	0.87844503	0.11756064	0.00017653
	Zinc	866.338095	0.12778571	28.750	33.54	128.66	0.85813	16.87474225	17.73287225	2.02983016	0.012906357	1.98E+01	6.67E-03	1.31E-01	1.58E-02	1.00E-04	*1.54E-01*	0.04339335	0.85331089	0.10264312	0.00065264

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0	0.0025			9.730183192	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	*2.60E-05*	0	0	0	1
	Acetone	2.7	0.0025			1367.050531	0	0	0	0.0063261	0.0002525	6.58E-03	0.00E+00	0.00E+00	4.63E-06	1.85E-07	*4.81E-06*	0	0	0.96161797	0.03838203
	cis-1,2-Dichloroethene	0	0.00058333			2504.114914	0	0	0	0	5.89167E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-08	*2.35E-08*	0	0	0	1
	Tetrachloroethene	0	0.0005			6.09153838	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06	*8.29E-06*	0	0	0	1
	Trichloroethene	0	0.0005			3.04576919	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	*1.66E-05*	0	0	0	1
	Semivolatile Organics																				
	2-Methylnaphthalene	0.3	0.0025			62.53	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.12E-05	4.04E-06	*1.53E-05*	0	0	0.73571279	0.26428721
	Acenaphthylene	0.3	0.0025			58.00	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.21E-05	4.35E-06	*1.65E-05*	0	0	0.73571279	0.26428721
	Anthracene	0.3	0.0025			435.11	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.62E-06	5.80E-07	*2.20E-06*	0	0	0.73571279	0.26428721
	Benzo(a)anthracene	0.3	0.0025			0.57	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.24E-03	4.46E-04	*1.69E-03*	0	0	0.73571279	0.26428721
	Benzo(a)pyrene	0	0.0025		0.00	0.57	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	*4.46E-04*	0	0	0	1
	Benzo(b)fluoranthene	0.3	0.0025		0.02	0.57	0	0.011485606	0.011485606	0.0007029	0.0002525	1.24E-02	0.00E+00	2.03E-02	1.24E-03	4.46E-04	*2.20E-02*	0	0.92320556	0.05649865	0.02029579
	Benzo(g,h,i)perylene	0.3	0.0025			58.00	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.21E-05	4.35E-06	*1.65E-05*	0	0	0.73571279	0.26428721
	Benzo(k)fluoranthene	0.66	0.0025		0.13	0.57	0	0.066085674	0.066085674	0.00154638	0.0002525	6.79E-02	0.00E+00	1.17E-01	2.73E-03	4.46E-04	*1.20E-01*	0	0.97350089	0.02277956	0.00371955
	Carbazole	0.3	0			58.00014758	0	0	0	0.0007029	0	7.03E-04	0.00E+00	0.00E+00	1.21E-05	0.00E+00	*1.21E-05*	0	0	1	0
	Chrysene	0.3	0.0025		0.03	0.57	0	0.01760613	0.01760613	0.0007029	0.0002525	1.86E-02	0.00E+00	3.11E-02	1.24E-03	4.46E-04	*3.28E-02*	0	0.94852795	0.03786865	0.0136034
	Dibenz(a,h)anthracene	0.3	0.0025			0.57	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.24E-03	4.46E-04	*1.69E-03*	0	0	0.73571279	0.26428721
	Dibenzofuran	0.3	0.0025			58.00	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.21E-05	4.35E-06	*1.65E-05*	0	0	0.73571279	0.26428721
	Fluoranthene	0.3	0.0025		0.01	54.39	0	0.007131243	0.007131243	0.0007029	0.0002525	8.09E-03	0.00E+00	1.31E-04	1.29E-05	4.64E-06	*1.49E-04*	0	0.88185456	0.08692111	0.03122433
	Fluorene	0.3	0.0025			54.39	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.29E-05	4.64E-06	*1.76E-05*	0	0	0.73571279	0.26428721
	Indeno(1,2,3-cd)pyrene	0.3	0.0025		0.13	0.57	0	0.063550335	0.063550335	0.0007029	0.0002525	6.45E-02	0.00E+00	1.12E-01	1.24E-03	4.46E-04	*1.14E-01*	0	0.98518891	0.01089671	0.00391438
	Naphthalene	0.3	0.0025			60.92	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	1.15E-05	4.15E-06	*1.57E-05*	0	0	0.73571279	0.26428721
	N-nitrosodiphenylamine	0.3	0.0025			120.62	0	0	0	0.0007029	0.0002525	9.55E-04	0.00E+00	0.00E+00	5.83E-06	2.09E-06	*7.92E-06*	0	0	0.73571279	0.26428721
	Phenanthrene	0.3	0.0025		0.08	58.00	0	0.040626584	0.040626584	0.0007029	0.0002525	4.16E-02	0.00E+00	7.00E-04	1.21E-05	4.35E-06	*7.17E-04*	0	0.9770237	0.01690396	0.00607234
	Pyrene	0.3	0.0025		0.02	58.00	0	0.009248526	0.009248526	0.0007029	0.0002525	1.02E-02	0.00E+00	1.59E-04	1.21E-05	4.35E-06	*1.76E-04*	0	0.90636937	0.06888525	0.02474538
	Pesticides and PCBs																				
	4,4'-DDD	0.00245	0.00005	0.0006	1.27E-04	6.84	1.9252E-05	6.36841E-05	8.29361E-05	5.7404E-06	0.00000505	9.37E-05	2.82E-06	9.32E-06	8.40E-07	7.39E-07	*1.37E-05*	0.2054059	0.67946808	0.0612458	0.05388022
	4,4'-DDE	0.00245	0.00005	0.0010	1.06E-04	0.83	2.9102E-05	5.35267E-05	8.26285E-05	5.7404E-06	0.00000505	9.34E-05	3.52E-05	6.47E-05	6.94E-06	6.11E-06	*1.13E-04*	0.31151966	0.57297525	0.06144747	0.05405763
	4,4'-DDT	0.00245	0.00005	0.0011	3.93E-04	0.64	3.2087E-05	0.000197986	0.000230072	5.7404E-06	0.00000505	2.41E-04	4.99E-05	3.08E-04	8.92E-06	7.85E-06	*3.74E-04*	0.13321527	0.82198599	0.02383245	0.02096629
	Aldrin	0.00125	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	2.9288E-06	0.000002525	1.46E-05	5.66E-05	0.00E+00	1.82E-05	1.57E-05	*9.05E-05*	0.6253621	0	0.20118648	0.17345142
	alpha-Chlordane	0.00125	2.1729E-05	0.0006	1.28E-04	1.99	1.8655E-05	6.43677E-05	8.30227E-05	2.9288E-06	2.19459E-06	8.81E-05	9.36E-06	3.23E-05	1.47E-06	1.10E-06	*4.42E-05*	0.21163736	0.73023936	0.0332261	0.02489718
	Aroclor 1248	0.0245	0.0005	0.0025		0.57	0.00007462	0	0.00007462	5.7404E-05	0.0000505	1.83E-04	1.32E-04	0.00E+00	1.01E-04	8.93E-05	*3.23E-04*	0.40882407	0	0.31449923	0.2766767
	Aroclor 1254	0.0245	0.0005	0.0195		0.15	0.00058204	0	0.000582036	5.7404E-05	0.0000505	6.90E-04	3.98E-03	0.00E+00	3.92E-04	3.45E-04	*4.71E-03*	0.8436044	0	0.08320077	0.07319482
	Aroclor 1260	0.0245	0.0005	0.0215	1.53E-03	0.28	0.00064173	0.00076989	0.001411622	5.7404E-05	0.0000505	1.52E-03	2.31E-03	2.78E-03	2.07E-04	1.82E-04	*5.48E-03*	0.42232384	0.50666486	0.03777724	0.03323405
	beta-BHC	0.00125	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	2.9288E-06	0.000002525	1.31E-05	2.37E-06	0.00E+00	9.11E-07	7.85E-07	*4.06E-06*	0.58256761	0	0.2241678	0.19326459
	delta-BHC	0.00125	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	2.9288E-06	0.000002525	1.31E-05	5.92E-06	0.00E+00	2.28E-06	1.96E-06	*1.02E-05*	0.58256761	0	0.2241678	0.19326459
	Endosulfan I	0.00125	0.000025	0.0006	2.06E-04	1.21	1.8655E-05	0.000103497	0.000122152	2.9288E-06	0.000002525	1.28E-04	1.55E-05	8.58E-05	2.43E-06	2.09E-06	*1.06E-04*	0.14619205	0.81106902	0.02295149	0.01978745
	Endosulfan Sulfate	0.00245	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	5.7404E-06	0.00000505	3.90E-05	2.34E-05	0.00E+00	4.76E-06	4.19E-06	*3.23E-05*	0.72330102	0	0.14720088	0.1294981
	Endrin Aldehyde	0.00245	0.00005	0.0022	7.53E-04	0.04	6.5666E-05	0.000378838	0.000444504	5.7404E-06	0.00000505	4.55E-04	1.64E-03	9.46E-03	1.43E-04	1.26E-04	*1.14E-02*	0.14422667	0.83207361	0.012608	0.01109172
	gamma-Chlordane	0.00125	2.1629E-05	0.0003	1.20E-04	1.99	7.6112E-06	6.03699E-05	6.79812E-05	2.9288E-06	2.18449E-06	7.31E-05	3.82E-06	3.03E-05	1.47E-06	1.10E-06	*3.67E-05*	0.10412887	0.82591725	0.04006803	0.02988584
	Inorganics																				
X	Aluminum	10695	0.38611429	47.900	1.78E+02	41.82	1.4297192	89.57079762	91.00051682	25.058385	0.038997543	1.16E+02	3.42E-02	2.14E+00	5.99E-01	9.33E-04	*2.78E+00*	0.01231477	0.77151092	0.2158384	0.0003359
	Antimony	21.6954545	0.00069286	0.050		0.05	0.00148494	0	0.001484938	0.05083245	6.99786E-05	5.24E-02	2.73E-02	0.00E+00	9.35E-01	1.29E-03	*9.63E-01*	0.02834535	0	0.97031886	0.00133579
X	Arsenic	114.109091	0.02458571	3.750	6.01	0.05	0.11193	3.026145294	3.138075294	0.13635238	0.002483157	3.28E+00	2.04E+00	5.52E+01	2.49E+00	4.53E-02	*5.98E+01*	0.03415717	0.92347502	0.04161004	0.00075777
X	Barium	81.4545455	0.03734286	8.800	7.94	4.33	0.2626624	3.996334204	4.258996604	0.190848	0.003771629	4.45E+00	6.07E-02	9.23E-01	4.41E-02	8.71E-04	*1.03E+00*	0.05897733	0.89732343	0.04285237	0.00084687
	Beryllium	0.9245455	6.3786E-05	0.006		0.53	0.00017909	0	0.000179088	0.00216621	6.44236E-06	2.35E-03	3.37E-04	0.00E+00	4.08E-03	1.21E-05	*4.43E-03*	0.07615126	0	0.92110934	0.0027394
	Cadmium	5.8790909	0.00043	0.057	0.63	0.78	0.00170134	0.316884435	0.318585771	0.01377471	0.00004343	3.32E-01	2.19E-03	4.09E-01	1.78E-02	5.60E-05	*4.29E-01*	0.00511828	0.95331139	0.04143967	0.00013065
	Chromium	346.463636	0.02578571	0.895	6.47	7.24	0.02671396	3.25768599	3.28439995	0.8117643	0.002604357	4.10E+00	3.69E-03	4.50E-01	1.12E-01	3.60E-04	*5.66E-01*	0.00651756	0.79479627	0.19805078	0.0006354
	Cobalt	12.1954545	0.00146857	0.485	1.08	4.02	0.01447628	0.544993623	0.559469903	0.02857395	0.000148326	5.88E-01	3.60E-03	1.36E-01	7.11E-03	3.69E-05	*1.46E-01*	0.02461148	0.92655707	0.04857928	0.00025217
	Copper	247.872727	0.02154286	54.350	12.55	12.23	1.6222388	6.316630801	7.938869601	0.5807658	0.002175829	8.52E+00	1.33E-01	5.16E-01	4.75E-02	1.78E-04	*6.97E-01*	0.19036315	0.74123102	0.06815051	0.00025532
	Cyanide	0.569	0.0025	0.268		51.90	0.00798434	0	0.00798434	0.00133317	0.0002525	9.57E-03	1.54E-04	0.00E+00	2.57E-05	4.87E-06	*1.84E-04*	0.83430869	0	0.13930679	0.02638452
X	Iron	24718.1818	2.401	577.500	2046.17	2.57	17.23722	1029.532553	1046.769773	57.9147	0.242501	1.10E+03	6.72E+00	4.01E+02	2.26E+01	9.45E-02	*4.31E+02*	0.01560033	0.93176525	0.05241496	0.00021947
X	Lead	1515.72727	0.01307286	0.515	138.23	6.43	0.01537172	69.54907493	69.56444665	3.551349	0.001320358	7.31E+01	2.39E-03	1.08E+01	5.52E-01	2.05E-04	*1.14E+01*	0.00021023	0.95120101	0.04857069	1.8058E-05
X	Manganese	250.3	0.46971429	88.700	141.15	70.76	2.6475176	71.0180956	73.6656132	0.5864529	0.047441143	7.43E+01	3.74E-02	1.00E+00	8.29E-03	6.70E-04	*1.05E+00*	0.03563304	0.95583535	0.00789309	0.00063851
	Mercury	0.5385	0.00020393	0.009	0.02	0.03	0.00026863	0.009491254	0.009759886	0.00126171	2.05968E-05	1.10E-02	1.04E-02	3.69E-01	4.90E-02	8.00E-04	*4.29E-01*	0.02432779	0.85954466	0.11426227	0.00186528
	Nickel	23.8181818	0.00284286	0.068	0.62	32.17	0.00201474	0.309590969	0.311605709	0.055806	0.000287129	3.68E-01	6.26E-05	9.62E-03	1.73E-03	8.93E-06	*1.14E-02*	0.00547932	0.84196885	0.15177094	0.00078088
	Selenium	2.7272727	0.00085714	0.330	0.23	0.16	0.00984984	0.117909149	0.127758989	0.00639	8.65714E-05	1.34E-01	6.12E-02	7.33E-01	3.97E-02	5.38E-04	*8.35E-01*	0.07337728	0.87837492	0.04760288	0.00064492
	Silver	0.2645455	0.00025	0.037		145.71	0.00110438	0	0.001104376	0.00061983	0.00002525	1.75E-03	7.58E-06	0.00E+00	4.25E-06	1.73E-07	*1.20E-05*	0.6312682	0	0.35429875	0.01443306
	Thallium	0.5615909	0.00077857	0.068		0.06	0.00201474	0	0.00201474	0.00131581	7.86357E-05	3.41E-03	3.35E-02	0.00E+00	2.19E-02	1.31E-03	*5.67E-02*	0.5909744	0	0.38595975	0.02306585
X	Vanadium	75.5954545	0.00187893	0.138	2.63	0.16	0.0041041	1.323489817	1.327593917	0.17712015	0.000189772	1.50E+00	2.62E-02	8.44E+00	1.13E+00	1.21E-03	*9.60E+00*	0.00272715	0.87945142	0.11769533	0.0001261
	Zinc	977.681818	0.12778571	28.750	37.85	128.66	0.85813	19.04352213	19.90165213	2.2907085	0.012906357	2.22E+01	6.67E-03	1.48E-01	1.78E-02	1.00E-04	*1.73E-01*	0.03864534	0.85761284	0.10316059	0.00058123

Table E.1-42. Exposure Calculatioins for Muskrat - Station WS

	Mean Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Aluminum	8500	0.38611429	47.900	1.41E+02	41.82	1.4297192	71.18763719	72.61735639	19.9155	0.038997543	9.26E+01	3.42E-02	1.70E+00	4.76E-01	9.33E-04	*2.21E+00*	0.01544443	0.76899872	0.21513559	0.00042127
	Antimony	3.95	0.00069286	0.050		0.05	0.0014849	0	0.001484938	0.0092549	6.99786E-05	1.08E-02	2.73E-02	0.00E+00	1.70E-01	1.29E-03	*1.99E-01*	0.13737003	0	0.85615632	0.00647364
X	Arsenic	167.91	0.02458571	3.750	8.85	0.05	0.11193	4.452932298	4.564862298	0.2006407	0.002483157	4.77E+00	2.04E+00	8.12E+01	3.66E+00	4.53E-02	*8.70E+01*	0.02347532	0.93392308	0.04208081	0.0005208
X	Barium	119.285	0.03734286	8.800	11.63	4.33	0.2626624	5.852377208	6.115039608	0.2794848	0.003771629	6.40E+00	6.07E-02	1.35E+00	6.45E-02	8.71E-04	*1.48E+00*	0.04105193	0.91467747	0.04368112	0.00058947
	Beryllium	0.5275	6.3786E-05	0.006		0.53	0.0001791	0	0.000179088	0.0012359	6.44236E-06	1.42E-03	3.37E-04	0.00E+00	2.33E-03	1.21E-05	*2.68E-03*	0.12598852	0	0.86947928	0.0045322
	Cadmium	8.095	0.00043	0.057	0.87	0.78	0.0017013	0.436322477	0.438023813	0.0189666	0.00004343	4.57E-01	2.19E-03	5.63E-01	2.45E-02	5.60E-05	*5.89E-01*	0.00372256	0.95468311	0.0414993	9.5026E-05
	Chromium	504	0.02578571	0.895	9.42	7.24	0.026714	4.73894968	4.76566364	1.180872	0.002604357	5.95E+00	3.69E-03	6.55E-01	1.63E-01	3.60E-04	*8.22E-01*	0.00449039	0.79657727	0.19849457	0.00043777
	Cobalt	18.99	0.00146857	0.485	1.69	4.02	0.0144763	0.848630029	0.863106309	0.0444936	0.000148326	9.08E-01	3.60E-03	2.11E-01	1.11E-02	3.69E-05	*2.26E-01*	0.01594746	0.93487382	0.04901532	0.0001634
	Copper	306.26	0.02154286	54.350	15.51	12.23	1.6222388	7.804534893	9.426773693	0.7175672	0.002175829	1.01E+01	1.33E-01	6.38E-01	5.87E-02	1.78E-04	*8.29E-01*	0.15988135	0.76918366	0.07072054	0.00021444
	Cyanide	3.61	0.0025	0.268		51.90	0.0079843	0	0.00798434	0.0084582	0.0002525	1.67E-02	1.54E-04	0.00E+00	1.63E-04	4.87E-06	*3.22E-04*	0.47824537	0	0.5066304	0.01512423
X	Iron	29765	2.401	577.500	2463.94	2.57	17.23722	1239.736671	1256.973891	69.739395	0.242501	1.33E+03	6.72E+00	4.83E+02	2.72E+01	9.45E-02	*5.17E+02*	0.01299005	0.93427127	0.05255593	0.00018275
X	Lead	294.8	0.01307286	0.515	26.88	6.43	0.0153717	13.52688419	13.54225591	0.6907164	0.001320358	1.42E+01	2.39E-03	2.10E+00	1.07E-01	2.05E-04	*2.21E+00*	0.00107991	0.95030252	0.04852481	9.2759E-05
X	Manganese	1036	0.46971429	88.700	584.21	70.76	2.6475176	293.9462527	296.5937703	2.427348	0.047441143	2.99E+02	3.74E-02	4.15E+00	3.43E-02	6.70E-04	*4.23E+00*	0.00885254	0.98287247	0.00811636	0.00015863
	Mercury	0.98	0.00020393	0.009	0.03	0.03	0.0002686	0.017272848	0.01754148	0.0022961	2.05968E-05	1.99E-02	1.04E-02	6.71E-01	8.92E-02	8.00E-04	*7.72E-01*	0.0135275	0.86980861	0.1156267	0.00103719
	Nickel	30.135	0.00284286	0.068	0.78	32.17	0.0020147	0.391697567	0.393712307	0.0706063	0.000287129	4.65E-01	6.26E-05	1.22E-02	2.20E-03	8.93E-06	*1.44E-02*	0.00433645	0.84307518	0.15197037	0.000618
	Selenium	2.069	0.00085714	0.330	0.18	0.16	0.0098498	0.089449812	0.099299652	0.0048477	8.65714E-05	1.04E-01	6.12E-02	5.56E-01	3.01E-02	5.38E-04	*6.48E-01*	0.09449748	0.85816438	0.04650759	0.00083055
	Silver	0.213	0.00025	0.037		145.71	0.0011044	0	0.001104376	0.0004991	0.00002525	1.63E-03	7.58E-06	0.00E+00	3.42E-06	1.73E-07	*1.12E-05*	0.67807833	0	0.30641837	0.0155033
	Thallium	0.7575	0.00077857	0.068		0.06	0.0020147	0	0.00201474	0.0017748	7.86357E-05	3.87E-03	3.35E-02	0.00E+00	2.95E-02	1.31E-03	*6.43E-02*	0.52084715	0	0.45882408	0.02032877
X	Vanadium	37.365	0.00187893	0.138	1.30	0.16	0.0041041	0.654168922	0.658273022	0.0875462	0.000189772	7.46E-01	2.62E-02	4.17E+00	5.58E-01	1.21E-03	*4.76E+00*	0.00550141	0.87689147	0.11735273	0.00025438
	Zinc	1541.5	0.12778571	28.750	59.68	128.66	0.85813	30.02570858	30.88383858	3.6117345	0.012906357	3.45E+01	6.67E-03	2.33E-01	2.81E-02	1.00E-04	*2.68E-01*	0.02486722	0.87009654	0.10466223	0.00037401

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Volatile Organics																				
	2-Butanone	0	0.0025			9.730183192	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	*2.60E-05*	0	0	0	1
	Acetone	0.41	0.0025			1367.050531	0	0	0	0.00096063	0.0002525	1.21E-03	0.00E+00	0.00E+00	7.03E-07	1.85E-07	*8.87E-07*	0	0	0.79186072	0.20813928
	cis-1,2-Dichloroethene	0	0.00058333			2504.114914	0	0	0	0	5.89167E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-08	*2.35E-08*	0	0	0	1
	Tetrachloroethene	0	0.0005			6.09153838	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06	*8.29E-06*	0	0	0	1
	Trichloroethene	0	0.0005			3.04576919	0	0	0	0	0.0000505	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	*1.66E-05*	0	0	0	1
	Semivolatile Organics																				
	2-Methylnaphthalene	0.305	0.0025			62.53	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	1.14E-05	4.04E-06	*1.55E-05*	0	0	0.73891419	0.26108581
	Acenaphthylene	0.305	0.0025			58.00	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	1.23E-05	4.35E-06	*1.67E-05*	0	0	0.73891419	0.26108581
	Anthracene	0.305	0.0025			435.11	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	1.64E-06	5.80E-07	*2.22E-06*	0	0	0.73891419	0.26108581
	Benzo(a)anthracene	0.305	0.0025			0.57	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	1.26E-03	4.46E-04	*1.71E-03*	0	0	0.73891419	0.26108581
	Benzo(a)pyrene	0	0.0025		0.00	0.57	0	0	0	0	0.0002525	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	*4.46E-04*	0	0	0	1
	Benzo(b)fluoranthene	0.33	0.0025		0.03	0.57	0	0.012634166	0.012634166	0.00077319	0.0002525	1.37E-02	0.00E+00	2.23E-02	1.37E-03	4.46E-04	*2.41E-02*	0	0.92491209	0.05660308	0.01848482
	Benzo(g,h,i)perylene	0.305	0.0025			58.00	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	1.23E-05	4.35E-06	*1.67E-05*	0	0	0.73891419	0.26108581
	Benzo(k)fluoranthene	0.61	0.0025		0.12	0.57	0	0.061079183	0.061079183	0.00142923	0.0002525	6.28E-02	0.00E+00	1.08E-01	2.53E-03	4.46E-04	*1.11E-01*	0	0.97320418	0.02277261	0.0040232
	Carbazole	0.305	0			58.00014758	0	0	0	0.00071462	0	7.15E-04	0.00E+00	0.00E+00	1.23E-05	0.00E+00	*1.23E-05*	0	0	1	0
	Chrysene	0.3	0.0025		0.03	0.57	0	0.01760613	0.01760613	0.0007029	0.0002525	1.86E-02	0.00E+00	3.11E-02	1.24E-03	4.46E-04	*3.28E-02*	0	0.94852795	0.03786865	0.0136034
	Dibenz(a,h)anthracene	0.305	0.0025			0.57	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	1.26E-03	4.46E-04	*1.71E-03*	0	0	0.73891419	0.26108581
	Dibenzofuran	0.305	0.0025			58.00	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	1.23E-05	4.35E-06	*1.67E-05*	0	0	0.73891419	0.26108581
	Fluoranthene	0.5	0.0025		0.02	54.39	0	0.011885405	0.011885405	0.0011715	0.0002525	1.33E-02	0.00E+00	2.19E-04	2.15E-05	4.64E-06	*2.45E-04*	0	0.89300799	0.08802046	0.01897155
	Fluorene	0.305	0.0025			54.39	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	1.31E-05	4.64E-06	*1.78E-05*	0	0	0.73891419	0.26108581
	Indeno(1,2,3-cd)pyrene	0.305	0.0025		0.13	0.57	0	0.064609507	0.064609507	0.00071462	0.0002525	6.56E-02	0.00E+00	1.14E-01	1.26E-03	4.46E-04	*1.16E-01*	0	0.98525214	0.0108974	0.00385046
	Naphthalene	0.305	0.0025			60.92	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	1.17E-05	4.15E-06	*1.59E-05*	0	0	0.73891419	0.26108581
	N-nitrosodiphenylamine	0.305	0.0025			120.62	0	0	0	0.00071462	0.0002525	9.67E-04	0.00E+00	0.00E+00	5.92E-06	2.09E-06	*8.02E-06*	0	0	0.73891419	0.26108581
	Phenanthrene	0.305	0.0025		0.08	58.00	0	0.041303694	0.041303694	0.00071462	0.0002525	4.23E-02	0.00E+00	7.12E-04	1.23E-05	4.35E-06	*7.29E-04*	0	0.97712097	0.01690564	0.00597339
	Pyrene	0.48	0.0025		0.03	58.00	0	0.014797642	0.014797642	0.00112464	0.0002525	1.62E-02	0.00E+00	2.55E-04	1.94E-05	4.35E-06	*2.79E-04*	0	0.91485882	0.06953046	0.01561072
	Pesticides and PCBs																				
	4,4'-DDD	0.0025	0.00005	0.0006	1.29E-04	6.84	1.9252E-05	6.49838E-05	8.42357E-05	5.8575E-06	0.00000505	9.51E-05	2.82E-06	9.51E-06	8.57E-07	7.39E-07	*1.39E-05*	0.2023471	0.68300998	0.06156506	0.05307786
	4,4'-DDE	0.0021	0.00005	0.0010	9.12E-05	0.83	2.9102E-05	4.588E-05	7.49818E-05	4.9203E-06	0.00000505	8.50E-05	3.52E-05	5.55E-05	5.95E-06	6.11E-06	*1.03E-04*	0.34256714	0.54006908	0.05791852	0.05944526
	4,4'-DDT	0.0025	0.00005	0.0011	4.02E-04	0.64	3.2087E-05	0.000202026	0.000234113	5.8575E-06	0.00000505	2.45E-04	4.99E-05	3.14E-04	9.11E-06	7.85E-06	*3.81E-04*	0.13095478	0.82452853	0.02390617	0.02061052
	Aldrin	0.00125	0.000025	0.0003		0.16	9.1036E-06	0	9.10364E-06	2.9288E-06	0.000002525	1.46E-05	5.66E-05	0.00E+00	1.82E-05	1.57E-05	*9.05E-05*	0.6253621	0	0.20118648	0.17345142
	alpha-Chlordane	0.00125	2.1729E-05	0.0006	1.28E-04	1.99	1.8655E-05	6.43677E-05	8.30227E-05	2.9288E-06	2.19459E-06	8.81E-05	9.36E-06	3.23E-05	1.47E-06	1.10E-06	*4.42E-05*	0.21163736	0.73023936	0.0332261	0.02489718
	Aroclor 1248	0.025	0.0005	0.0025		0.57	0.00007462	0	0.00007462	5.8575E-05	0.0000505	1.84E-04	1.32E-04	0.00E+00	1.04E-04	8.93E-05	*3.25E-04*	0.40621683	0	0.31887095	0.27491222
	Aroclor 1254	0.025	0.0005	0.0195		0.15	0.00058204	0	0.000582036	5.8575E-05	0.0000505	6.91E-04	3.98E-03	0.00E+00	4.00E-04	3.45E-04	*4.72E-03*	0.84217441	0	0.08475484	0.07307075
	Aroclor 1260	0.025	0.0005	0.0215	1.56E-03	0.28	0.00064173	0.000785602	0.001427334	5.8575E-05	0.0000505	1.54E-03	2.31E-03	2.83E-03	2.11E-04	1.82E-04	*5.54E-03*	0.41768294	0.51132361	0.0381246	0.03286884
	beta-BHC	0.00125	0.000025	0.0003		3.22	7.6112E-06	0	7.61124E-06	2.9288E-06	0.000002525	1.31E-05	2.37E-06	0.00E+00	9.11E-07	7.85E-07	*4.06E-06*	0.58256761	0	0.2241678	0.19326459
	delta-BHC	0.00125	0.000025	0.0003		1.29	7.6112E-06	0	7.61124E-06	2.9288E-06	0.000002525	1.31E-05	5.92E-06	0.00E+00	2.28E-06	1.96E-06	*1.02E-05*	0.58256761	0	0.2241678	0.19326459
	Endosulfan I	0.00125	0.000025	0.0006	2.06E-04	1.21	1.8655E-05	0.000103497	0.000122152	2.9288E-06	0.000002525	1.28E-04	1.55E-05	8.58E-05	2.43E-06	2.09E-06	*1.06E-04*	0.14619205	0.81106902	0.02295149	0.01978745
	Endosulfan Sulfate	0.0025	0.00005	0.0009		1.21	2.8206E-05	0	2.82064E-05	5.8575E-06	0.00000505	3.91E-05	2.34E-05	0.00E+00	4.86E-06	4.19E-06	*3.24E-05*	0.72113466	0	0.1497551	0.12911024
	Endrin Aldehyde	0.0025	0.00005	0.0022	7.68E-04	0.04	6.5666E-05	0.00038657	0.000452235	5.8575E-06	0.00000505	4.63E-04	1.64E-03	9.66E-03	1.46E-04	1.26E-04	*1.16E-02*	0.14178257	0.83466639	0.01264728	0.01090376
	gamma-Chlordane	0.00125	2.1629E-05	0.0003	1.20E-04	1.99	7.6112E-06	6.03699E-05	6.79812E-05	2.9288E-06	2.18449E-06	7.31E-05	3.82E-06	3.03E-05	1.47E-06	1.10E-06	*3.67E-05*	0.10412887	0.82591725	0.04006803	0.02988584
	Inorganics																				
X	Aluminum	10426.4286	0.38611429	47.900	1.74E+02	41.82	1.4297192	87.32150757	88.75122677	24.4291221	0.038997543	1.13E+02	3.42E-02	2.09E+00	5.84E-01	9.33E-04	*2.71E+00*	0.01262787	0.7712596	0.21576809	0.00034444
X	Antimony	28.9	0.00069286	0.050		0.05	0.00148494	0	0.001484938	0.0677127	6.99786E-05	6.93E-02	2.73E-02	0.00E+00	1.24E+00	1.29E-03	*1.27E+00*	0.02143769	0	0.97755204	0.00101026
X	Arsenic	40.8107143	0.02458571	3.750	2.15	0.05	0.11193	1.082290202	1.194220202	0.04876595	0.002483157	1.25E+00	2.04E+00	1.97E+01	8.90E-01	4.53E-02	*2.27E+01*	0.08986974	0.86898183	0.03915468	0.00199375
X	Barium	444.107143	0.03734286	8.800	43.30	4.33	0.2626624	21.78884622	22.05150862	1.04054304	0.003771629	2.31E+01	6.07E-02	5.03E+00	2.40E-01	8.71E-04	*5.33E+00*	0.01137272	0.94341067	0.0450533	0.0001633
	Beryllium	0.3077857	6.3786E-05	0.006		0.53	0.00017909	0	0.000179088	0.00072114	6.44236E-06	9.07E-04	3.37E-04	0.00E+00	1.36E-03	1.21E-05	*1.71E-03*	0.19752231	0	0.79537219	0.0071055
	Cadmium	4.0231429	0.00043	0.057	0.43	0.78	0.00170134	0.216848385	0.218549721	0.00942622	0.00004343	2.28E-01	2.19E-03	2.80E-01	1.22E-02	5.60E-05	*2.94E-01*	0.00746137	0.95100859	0.04133957	0.00019047
X	Chromium	12364.6429	0.02578571	0.895	231.06	7.24	0.02671396	116.2607546	116.2874685	28.9703582	0.002604357	1.45E+02	3.69E-03	1.61E+01	4.00E+00	3.60E-04	*2.01E+01*	0.0001839	0.8003608	0.19943737	1.7929E-05
	Cobalt	12.4678571	0.00146857	0.485	1.11	4.02	0.01447628	0.557166821	0.571643101	0.02921219	0.000148326	6.01E-01	3.60E-03	1.39E-01	7.27E-03	3.69E-05	*1.49E-01*	0.02408684	0.92706068	0.04860568	0.0002468
	Copper	349.214286	0.02154286	54.350	17.69	12.23	1.6222388	8.899154568	10.52139337	0.81820907	0.002175829	1.13E+01	1.33E-01	7.28E-01	6.69E-02	1.78E-04	*9.27E-01*	0.14303214	0.78463486	0.07214116	0.00019184
	Cyanide	0	0.0025	0.268		51.90	0.00798434	0	0.00798434	0	0.0002525	0.00E+00	1.54E-04	0.00E+00	0.00E+00	4.87E-06	*1.59E-04*	0	0	0	0
X	Iron	11956.4286	2.401	577.500	989.75	2.57	17.23722	497.9950597	515.2322797	28.0139121	0.242501	5.43E+02	6.72E+00	1.94E+02	1.09E+01	9.45E-02	*2.12E+02*	0.03171588	0.91629332	0.05154461	0.00044619
X	Lead	301.071429	0.01307286	0.515	27.46	6.43	0.01537172	13.8146484	13.83002012	0.70541036	0.001320358	1.45E+01	2.39E-03	2.15E+00	1.10E-01	2.05E-04	*2.26E+00*	0.00105744	0.95032573	0.048526	9.0829E-05
X	Manganese	329.207143	0.46971429	88.700	185.64	70.76	2.6475176	93.4065695	96.0540871	0.77133234	0.047441143	9.69E+01	3.74E-02	1.32E+00	1.09E-02	6.70E-04	*1.37E+00*	0.02732982	0.96421814	0.00796232	0.00048973
	Mercury	0.9825	0.00020393	0.009	0.03	0.03	0.00026863	0.017316911	0.017585543	0.002302	2.05968E-05	1.99E-02	1.04E-02	6.73E-01	8.95E-02	8.00E-04	*7.74E-01*	0.01349358	0.86984085	0.11563098	0.00103459
	Nickel	23.4464286	0.00284286	0.068	0.61	32.17	0.00201474	0.304758886	0.306773626	0.05493498	0.000287129	3.62E-01	6.26E-05	9.47E-03	1.71E-03	8.93E-06	*1.13E-02*	0.00556565	0.84188529	0.15175588	0.00079318
X	Selenium	4.3214286	0.00085714	0.330	0.37	0.16	0.00984984	0.186829857	0.196679697	0.01012511	8.65714E-05	2.07E-01	6.12E-02	1.16E+00	6.30E-02	5.38E-04	*1.29E+00*	0.04760875	0.90303357	0.04893924	0.00041844
	Silver	0.3610714	0.00025	0.037		145.71	0.00110438	0	0.001104376	0.00084599	0.00002525	1.98E-03	7.58E-06	0.00E+00	5.81E-06	1.73E-07	*1.36E-05*	0.55900329	0	0.42821589	0.01278082
	Thallium	1.2021429	0.00077857	0.068		0.06	0.00201474	0	0.00201474	0.00281662	7.86357E-05	4.91E-03	3.35E-02	0.00E+00	4.68E-02	1.31E-03	*8.17E-02*	0.4103343	0	0.57365027	0.01601543
X	Vanadium	68.2964286	0.00187893	0.138	2.38	0.16	0.0041041	1.19570189	1.19980599	0.16001853	0.000189772	1.36E+00	2.62E-02	7.63E+00	1.02E+00	1.21E-03	*8.67E+00*	0.00301769	0.87918333	0.11765945	0.00013954
	Zinc	1209.53571	0.12778571	28.750	46.82	128.66	0.85813	23.5596282	24.4177582	2.83394218	0.012906357	2.73E+01	6.67E-03	1.83E-01	2.20E-02	1.00E-04	*2.12E-01*	0.03147414	0.86411033	0.10394216	0.00047337

Table E.1-44. Exposure Calculatioins for Muskrat - Pond Reference

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
		lake/pond no 03i	2 ref samples																		
	Volatile Organics																				
	2-Butanone	0.105714	0.002			9.730183192	0	0	0	0.00024769	0.000202	4.50E-04	0.00E+00	0.00E+00	2.55E-05	2.08E-05	*4.62E-05*	0	0	0.55080024	0.44919976
	Acetone	0.360357	0.0025			1367.050531	0	0	0	0.00084432	0.0002525	1.10E-03	0.00E+00	0.00E+00	6.18E-07	1.85E-07	*8.02E-07*	0	0	0.76978835	0.23021165
	cis-1,2-Dichloroethene	0.00925	0.00066667			2504.114914	0	0	0	2.1673E-05	6.73333E-05	8.90E-05	0.00E+00	0.00E+00	8.65E-09	2.69E-08	*3.55E-08*	0	0	0.24349739	0.75650261
	Tetrachloroethene	0.009938	0.00066667			6.09153838	0	0	0	2.3284E-05	6.73333E-05	9.06E-05	0.00E+00	0.00E+00	3.82E-06	1.11E-05	*1.49E-05*	0	0	0.25694504	0.74305496
	Trichloroethene	0.008438	0.00066667			3.04576919	0	0	0	1.9769E-05	6.73333E-05	8.71E-05	0.00E+00	0.00E+00	6.49E-06	2.21E-05	*2.86E-05*	0	0	0.22696347	0.77303653
	Semivolatile Organics																				
	2-Methylnaphthalene	0.422125	0.0025			62.53	0	0	0	0.00098904	0.0002525	1.24E-03	0.00E+00	0.00E+00	1.58E-05	4.04E-06	*1.99E-05*	0	0	0.79662336	0.20337664
	Acenaphthylene	0.422125	0.0025			58.00	0	0	0	0.00098904	0.0002525	1.24E-03	0.00E+00	0.00E+00	1.71E-05	4.35E-06	*2.14E-05*	0	0	0.79662336	0.20337664
	Anthracene	0.461875	0.0025			435.11	0	0	0	0.00108217	0.0002525	1.33E-03	0.00E+00	0.00E+00	2.49E-06	5.80E-07	*3.07E-06*	0	0	0.8108151	0.1891849
	Benzo(a)anthracene	1.124375	0.0025			0.57	0	0	0	0.00263441	0.0002525	2.89E-03	0.00E+00	0.00E+00	4.66E-03	4.46E-04	*5.10E-03*	0	0	0.91253626	0.08746374
	Benzo(a)pyrene	1.101875	0.0025		0.17	0.57	0	0.087962573	0.087962573	0.00258169	0.0002525	9.08E-02	0.00E+00	1.56E-01	4.56E-03	4.46E-04	*1.61E-01*	0	0.96878531	0.02843376	0.00278094
	Benzo(b)fluoranthene	1.215	0.0025		0.09	0.57	0	0.046516703	0.046516703	0.00284675	0.0002525	4.96E-02	0.00E+00	8.22E-02	5.03E-03	4.46E-04	*8.77E-02*	0	0.93753531	0.0573756	0.00508909
	Benzo(g,h,i)perylene	0.568125	0.0025			58.00	0	0	0	0.00133112	0.0002525	1.58E-03	0.00E+00	0.00E+00	2.30E-05	4.35E-06	*2.73E-05*	0	0	0.84055487	0.15944513
	Benzo(k)fluoranthene	1.264375	0.0025		0.25	0.57	0	0.126601627	0.126601627	0.00296243	0.0002525	1.30E-01	0.00E+00	2.24E-01	5.24E-03	4.46E-04	*2.30E-01*	0	0.97523482	0.02282013	0.00194505
	Carbazole	0.477857	0.0025			58.00014758	0	0	0	0.00111962	0.0002525	1.37E-03	0.00E+00	0.00E+00	1.93E-05	4.35E-06	*2.37E-05*	0	0	0.8159781	0.1840219
	Chrysene	1.174375	0.0025		0.14	0.57	0	0.068920663	0.068920663	0.00275156	0.0002525	7.19E-02	0.00E+00	1.22E-01	4.86E-03	4.46E-04	*1.27E-01*	0	0.95823327	0.03825612	0.00351061
	Dibenz(a,h)anthracene	0.380625	0.0025			0.57	0	0	0	0.0008918	0.0002525	1.14E-03	0.00E+00	0.00E+00	1.58E-03	4.46E-04	*2.02E-03*	0	0	0.77934193	0.22065807
	Dibenzofuran	0.479286	0.0025			58.00	0	0	0	0.00112297	0.0002525	1.38E-03	0.00E+00	0.00E+00	1.94E-05	4.35E-06	*2.37E-05*	0	0	0.81642591	0.18357409
	Fluoranthene	2.19375	0.0025		0.10	54.39	0	0.052147214	0.052147214	0.00513996	0.0002525	5.75E-02	0.00E+00	9.59E-04	9.45E-05	4.64E-06	*1.06E-03*	0	0.90628281	0.08932891	0.00438828
	Fluorene	0.434375	0.0025			54.39	0	0	0	0.00101774	0.0002525	1.27E-03	0.00E+00	0.00E+00	1.87E-05	4.64E-06	*2.34E-05*	0	0	0.80121877	0.19878123
	Indeno(1,2,3-cd)pyrene	0.793125	0.0025		0.33	0.57	0	0.168011199	0.168011199	0.00185829	0.0002525	1.70E-01	0.00E+00	2.97E-01	3.29E-03	4.46E-04	*3.01E-01*	0	0.98759248	0.01092329	0.00148423
	Naphthalene	0.423375	0.0025			60.92	0	0	0	0.00099197	0.0002525	1.24E-03	0.00E+00	0.00E+00	1.63E-05	4.15E-06	*2.04E-05*	0	0	0.79710199	0.20289801
	N-nitrosodiphenylamine	0.479286	0.0025			120.62	0	0	0	0.00112297	0.0002525	1.38E-03	0.00E+00	0.00E+00	9.31E-06	2.09E-06	*1.14E-05*	0	0	0.81642591	0.18357409
	Phenanthrene	0.943125	0.0025		0.25	58.00	0	0.127719825	0.127719825	0.00220974	0.0002525	1.30E-01	0.00E+00	2.20E-03	3.81E-05	4.35E-06	*2.24E-03*	0	0.98108617	0.01697424	0.00193959
	Pyrene	1.67125	0.0025		0.10	58.00	0	0.051521997	0.051521997	0.00391574	0.0002525	5.57E-02	0.00E+00	8.88E-04	6.75E-05	4.35E-06	*9.60E-04*	0	0.92515315	0.07031284	0.00453401
	Pesticides and PCBs																				
	4,4'-DDD	0.021188	3.4867E-05	0.0008	1.09E-03	6.84	2.3431E-05	0.000550738	0.000574168	4.9642E-05	3.52154E-06	6.27E-04	3.43E-06	8.06E-05	7.26E-06	5.15E-07	*9.18E-05*	0.03734972	0.87790434	0.07913243	0.00561351
	4,4'-DDE	0.016456	3.4867E-05	0.0047	7.15E-04	0.83	0.00013879	0.00035953	0.000498323	3.8557E-05	3.52154E-06	5.40E-04	1.68E-04	4.35E-04	4.66E-05	4.26E-06	*6.54E-04*	0.25683341	0.6653013	0.07134877	0.00651652
	4,4'-DDT	0.012131	3.4867E-05	0.0005	1.95E-03	0.64	1.4626E-05	0.000980333	0.000994958	2.8424E-05	3.52154E-06	1.03E-03	2.27E-05	1.52E-03	4.42E-05	5.47E-06	*1.60E-03*	0.01424235	0.95464951	0.02767886	0.00342928
	Aldrin	0.005298	0.0000182	0.0003		0.16	7.5366E-06	0	7.53662E-06	1.2412E-05	1.8382E-06	2.18E-05	4.69E-05	0.00E+00	7.72E-05	1.14E-05	*1.35E-04*	0.34592498	0	0.56970307	0.08437195
	alpha-Chlordane	0.0055	0.0000182	0.0003	5.63E-04	1.99	7.5366E-06	0.000283218	0.000290755	1.2887E-05	1.8382E-06	3.05E-04	3.78E-06	1.42E-04	6.47E-06	9.22E-07	*1.53E-04*	0.02467146	0.92712659	0.04218453	0.00601743
	Aroclor 1248	0.108275	0.000341	0.0025		0.57	0.00007462	0	0.00007462	0.00025369	0.000034441	3.63E-04	1.32E-04	0.00E+00	4.48E-04	6.09E-05	*6.41E-04*	0.20570679	0	0.69934885	0.09494435
	Aroclor 1254	0.101475	0.000341	0.0025		0.15	0.00007462	0	0.00007462	0.00023776	0.000034441	3.47E-04	5.10E-04	0.00E+00	1.62E-03	2.35E-04	*2.37E-03*	0.21515674	0	0.68553726	0.099306
	Aroclor 1260	0.10715	0.000341	0.0052	6.69E-03	0.28	0.00015372	0.003367092	0.003520809	0.00025105	0.000034441	3.81E-03	5.54E-04	1.21E-02	9.05E-04	1.24E-04	*1.37E-02*	0.04038491	0.88460963	0.06595704	0.00904841
	beta-BHC	0.005298	0.0000182	0.0003		3.22	7.5366E-06	0	7.53662E-06	1.2412E-05	1.8382E-06	2.18E-05	2.34E-06	0.00E+00	3.86E-06	5.71E-07	*6.77E-06*	0.34592498	0	0.56970307	0.08437195
	delta-BHC	0.005298	0.0000182	0.0003		1.29	7.5366E-06	0	7.53662E-06	1.2412E-05	1.8382E-06	2.18E-05	5.86E-06	0.00E+00	9.65E-06	1.43E-06	*1.69E-05*	0.34592498	0	0.56970307	0.08437195
	Endosulfan I	0.012848	0.0000182	0.0003	2.11E-03	1.21	7.5366E-06	0.001063746	0.001071283	3.0102E-05	1.8382E-06	1.10E-03	6.25E-06	8.82E-04	2.50E-05	1.52E-06	*9.15E-04*	0.00683146	0.96421709	0.02728524	0.00166621
	Endosulfan Sulfate	0.009683	3.4867E-05	0.0005		1.21	1.4626E-05	0	1.46255E-05	2.2686E-05	3.52154E-06	4.08E-05	1.21E-05	0.00E+00	1.88E-05	2.92E-06	*3.39E-05*	0.35817757	0	0.55558034	0.08624209
	Endrin Aldehyde	0.012129	3.4867E-05	0.0005	3.73E-03	0.04	1.4626E-05	0.001875416	0.001890042	2.8417E-05	3.52154E-06	1.92E-03	3.65E-04	4.69E-02	7.10E-04	8.80E-05	*4.80E-02*	0.00760961	0.97577275	0.0147854	0.00183224
	gamma-Chlordane	0.004888	0.0000182	0.0003	4.69E-04	1.99	7.5366E-06	0.000236046	0.000243583	1.1451E-05	1.8382E-06	2.57E-04	3.78E-06	1.18E-04	5.75E-06	9.22E-07	*1.29E-04*	0.0293399	0.91892393	0.0445801	0.00715607
	Inorganics																				
X	Aluminum	9924.375	0.06091667	9.7500	1.65E+02	41.82	0.291018	83.11680081	83.40781881	23.2528106	0.006152583	1.07E+02	6.96E-03	1.99E+00	5.56E-01	1.47E-04	*2.55E+00*	0.00272829	0.77921916	0.21799486	5.768E-05
	Antimony	0.863125	0.00341667	0.0480		0.05	0	0	0	0.0020223	0.000345083	2.37E-03	0.00E+00	0.00E+00	3.72E-02	6.34E-03	*4.35E-02*	0	0	0.8542344	0.1457656
X	Arsenic	9.89375	0.00078333	0.1925	0.52	0.05	0.00574574	0.26237984	0.26812558	0.01182234	7.91167E-05	2.80E-01	1.05E-01	4.79E+00	2.16E-01	1.44E-03	*5.11E+00*	0.02051852	0.93698039	0.04221856	0.00028253
	Barium	47.25	0.0292	15.4000	4.61	4.33	0.4596592	2.318186051	2.777845251	0.11070675	0.0029492	2.89E+00	1.06E-01	5.35E-01	2.56E-02	6.81E-04	*6.68E-01*	0.15896905	0.80172405	0.03828695	0.00101995
	Beryllium	0.458125	6.9833E-05	0.0044		0.53	0.00013126	0	0.000131257	0.00107339	7.05316E-06	1.21E-03	2.47E-04	0.00E+00	2.02E-03	1.33E-05	*2.28E-03*	0.10832462	0	0.88585448	0.0058209
	Cadmium	0.589375	0.00018	0.0800	0.06	0.78	0.00238784	0.031767456	0.034155296	0.00138091	0.00001818	3.56E-02	3.08E-03	4.10E-02	1.78E-03	2.34E-05	*4.58E-02*	0.06716022	0.8934892	0.03883925	0.00051133
	Chromium	42.525	0.00158333	0.1800	0.79	7.24	0.00537264	0.399848879	0.405221519	0.09963608	0.000159917	5.05E-01	7.42E-04	5.52E-02	1.38E-02	2.21E-05	*6.98E-02*	0.01063852	0.7917525	0.19729232	0.00031666
	Cobalt	7.68125	0.00066667	0.4200	0.68	4.02	0.01253616	0.343261686	0.355797846	0.01799717	6.73333E-05	3.74E-01	3.12E-03	8.54E-02	4.48E-03	1.67E-05	*9.30E-02*	0.03353149	0.91814992	0.04813849	0.0001801
	Copper	41.85625	0.00103333	20.1000	2.12	12.23	0.5999448	1.066638032	1.666582832	0.09806919	0.000104367	1.76E+00	4.90E-02	8.72E-02	8.02E-03	8.53E-06	*1.44E-01*	0.33995899	0.60441092	0.05557095	5.9139E-05
	Cyanide	0.425	0.0025	0.2175		51.90	0.00649194	0	0.00649194	0.00099578	0.0002525	7.74E-03	1.25E-04	0.00E+00	1.92E-05	4.87E-06	*1.49E-04*	0.83872864	0	0.12864953	0.03262183
X	Iron	15651.25	1.14133333	66.3500	1295.61	2.57	1.9804148	651.8874037	653.8678185	36.6708788	0.115274667	6.91E+02	7.72E-01	2.54E+02	1.43E+01	4.49E-02	*2.69E+02*	0.00286745	0.94386977	0.05309588	0.00016691
X	Lead	214.475	0.00073	0.0333	19.56	6.43	0.00099245	9.841175331	9.842167777	0.50251493	0.00007373	1.03E+01	1.54E-04	1.53E+00	7.81E-02	1.15E-05	*1.61E+00*	9.5937E-05	0.95132016	0.04857678	7.1273E-06
X	Manganese	259.6375	0.20296667	106.0000	146.41	70.76	3.163888	73.66744225	76.83133025	0.60833066	0.020499633	7.75E+01	4.47E-02	1.04E+00	8.60E-03	2.90E-04	*1.09E+00*	0.04084536	0.95103653	0.00785347	0.00026465
	Mercury	0.167125	5.8333E-05	0.0055	0.01	0.03	0.00016416	0.002945637	0.003109801	0.00039157	5.89166E-06	3.51E-03	6.38E-03	1.14E-01	1.52E-02	2.29E-04	*1.36E-01*	0.04680682	0.8398669	0.11164644	0.00167984
	Nickel	13.7875	0.00072667	0.1600	0.36	32.17	0.00477568	0.179211223	0.183986903	0.03230411	7.33933E-05	2.16E-01	1.48E-04	5.57E-03	1.00E-03	2.28E-06	*6.73E-03*	0.02207239	0.82828421	0.14930419	0.00033921
	Selenium	0.834375	0.00078333	0.1600	0.07	0.16	0.00477568	0.036072831	0.040848511	0.00195494	7.91167E-05	4.29E-02	2.97E-02	2.24E-01	1.22E-02	4.92E-04	*2.67E-01*	0.11136646	0.84120034	0.04558824	0.00184496
	Silver	0.24875	0.00026333	0.1550		145.71	0.00462644	0	0.00462644	0.00058282	2.65967E-05	5.24E-03	3.18E-05	0.00E+00	4.00E-06	1.83E-07	*3.59E-05*	0.88360687	0	0.11131342	0.00507971
	Thallium	0.701249	0.0007	0.0650		0.06	0.00194012	0	0.00194012	0.00164303	0.0000707	3.65E-03	3.23E-02	0.00E+00	2.73E-02	1.18E-03	*6.08E-02*	0.53098004	0	0.4496705	0.01934947
X	Vanadium	31.1875	0.001175	0.0000	1.09	0.16	0	0.546016145	0.546016145	0.07307231	0.000118675	6.19E-01	0.00E+00	3.48E+00	4.66E-01	7.57E-04	*3.95E+00*	0	0.88179886	0.11800948	0.00019166
	Zinc	141.425	0.00200833	18.1500	5.47	128.66	0.5417412	2.754710241	3.296451441	0.33135878	0.000202842	3.63E+00	4.21E-03	2.14E-02	2.58E-03	1.58E-06	*2.82E-02*	0.14932173	0.75928895	0.0913334	5.591E-05

Table E.1-45. Exposure Calculatioins for Muskrat - River Reference

	Mean Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			river	2 ref samples																	
	Volatile Organics																				
	2-Butanone	0.0326111	0.0016			9.730183192	0	0	0	7.64078E-05	0.0001616	2.38E-04	0.00E+00	0.00E+00	7.85E-06	1.66E-05	*2.45E-05*	0	0	0.32103075	0.67896925
	Acetone	0.1141	0.0025			1367.050531	0	0	0	0.000267336	0.0002525	5.20E-04	0.00E+00	0.00E+00	1.96E-07	1.85E-07	*3.80E-07*	0	0	0.51427017	0.48572983
	cis-1,2-Dichloroethene	0.009	0.0008			2504.114914	0	0	0	0.000021087	0.0000808	1.02E-04	0.00E+00	0.00E+00	8.42E-09	3.23E-08	*4.07E-08*	0	0	0.20696458	0.79303542
	Tetrachloroethene	0.008	0.0008			6.09153838	0	0	0	0.000018744	0.0000808	9.95E-05	0.00E+00	0.00E+00	3.08E-06	1.33E-05	*1.63E-05*	0	0	0.18829864	0.81170136
	Trichloroethene	0.008	0.0008			3.04576919	0	0	0	0.000018744	0.0000808	9.95E-05	0.00E+00	0.00E+00	6.15E-06	2.65E-05	*3.27E-05*	0	0	0.18829864	0.81170136
	Semivolatile Organics																				
	2-Methylnaphthalene	0.1863	0.0023			62.53	0	0	0	0.000436501	0.0002323	6.69E-04	0.00E+00	0.00E+00	6.98E-06	3.72E-06	*1.07E-05*	0	0	0.65266195	0.34733805
	Acenaphthylene	0.2495	0.0023			58.00	0	0	0	0.000584579	0.0002323	8.17E-04	0.00E+00	0.00E+00	1.01E-05	4.01E-06	*1.41E-05*	0	0	0.71562478	0.28437522
	Anthracene	0.359	0.0023			435.11	0	0	0	0.000841137	0.0002323	1.07E-03	0.00E+00	0.00E+00	1.93E-06	5.34E-07	*2.47E-06*	0	0	0.78359233	0.21640767
	Benzo(a)anthracene	1.0485	0.0023			0.57	0	0	0	0.002456636	0.0002323	2.69E-03	0.00E+00	0.00E+00	4.34E-03	4.11E-04	*4.75E-03*	0	0	0.91360894	0.08639106
	Benzo(a)pyrene	0.9345	0.0023		0.15	0.57	0	0.074601043	0.074601043	0.002189534	0.0002323	7.70E-02	0.00E+00	1.32E-01	3.87E-03	4.11E-04	*1.36E-01*	0	0.96855696	0.02842705	0.00301599
	Benzo(b)fluoranthene	1.196	0.0023		0.09	0.57	0	0.045789281	0.045789281	0.002802228	0.0002323	4.88E-02	0.00E+00	8.10E-02	4.95E-03	4.11E-04	*8.63E-02*	0	0.93784737	0.0573947	0.00475792
	Benzo(g,h,i)perylene	0.4595	0.0023			58.00	0	0	0	0.001076609	0.0002323	1.31E-03	0.00E+00	0.00E+00	1.86E-05	4.01E-06	*2.26E-05*	0	0	0.82252388	0.17747612
	Benzo(k)fluoranthene	1.1285	0.0023		0.22	0.57	0	0.112996489	0.112996489	0.002644076	0.0002323	1.16E-01	0.00E+00	2.00E-01	4.67E-03	4.11E-04	*2.05E-01*	0	0.97517645	0.02281876	0.00200478
	Carbazole	0.234	0.00216667			58.00014758	0	0	0	0.000548262	0.000218833	7.67E-04	0.00E+00	0.00E+00	9.45E-06	3.77E-06	*1.32E-05*	0	0	0.71472472	0.28527528
	Chrysene	1.2475	0.0023		0.15	0.57	0	0.073212157	0.073212157	0.002922893	0.0002323	7.64E-02	0.00E+00	1.29E-01	5.17E-03	4.11E-04	*1.35E-01*	0	0.95868401	0.03827411	0.00304188
	Dibenz(a,h)anthracene	0.235	0.0023			0.57	0	0	0	0.000550605	0.0002323	7.83E-04	0.00E+00	0.00E+00	9.73E-04	4.11E-04	*1.38E-03*	0	0	0.70328456	0.29671544
	Dibenzofuran	0.196	0.0023			58.00	0	0	0	0.000459228	0.0002323	6.92E-04	0.00E+00	0.00E+00	7.92E-06	4.01E-06	*1.19E-05*	0	0	0.66407723	0.33592277
	Fluoranthene	2.2301	0.0023		0.11	54.39	0	0.053011283	0.053011283	0.005225124	0.0002323	5.85E-02	0.00E+00	9.75E-04	9.61E-05	4.27E-06	*1.08E-03*	0	0.90666077	0.08936617	0.00397307
	Fluorene	0.256	0.0023			54.39	0	0	0	0.000599808	0.0002323	8.32E-04	0.00E+00	0.00E+00	1.10E-05	4.27E-06	*1.53E-05*	0	0	0.72082951	0.27917049
	Indeno(1,2,3-cd)pyrene	0.5775	0.0023		0.24	0.57	0	0.122334395	0.122334395	0.001353083	0.0002323	1.24E-01	0.00E+00	2.16E-01	2.39E-03	4.11E-04	*2.19E-01*	0	0.98720638	0.01091902	0.0018746
	Naphthalene	0.2015	0.0023			60.92	0	0	0	0.000472115	0.0002323	7.04E-04	0.00E+00	0.00E+00	7.75E-06	3.81E-06	*1.16E-05*	0	0	0.67022257	0.32977743
	N-nitrosodiphenylamine	0.2105	0.0023			120.62	0	0	0	0.000493202	0.0002323	7.26E-04	0.00E+00	0.00E+00	4.09E-06	1.93E-06	*6.01E-06*	0	0	0.67980769	0.32019231
	Phenanthrene	1.4415	0.0023		0.39	58.00	0	0.195210739	0.195210739	0.003377435	0.0002323	1.99E-01	0.00E+00	3.37E-03	5.82E-05	4.01E-06	*3.43E-03*	0	0.98184425	0.01698736	0.00116839
	Pyrene	1.8586	0.0023		0.11	58.00	0	0.057297701	0.057297701	0.0043547	0.0002323	6.19E-02	0.00E+00	9.88E-04	7.51E-05	4.01E-06	*1.07E-03*	0	0.92587829	0.07036795	0.00375375
	Pesticides and PCBs																				
	4,4'-DDD	0.04088	0.00002274	0.0008	2.11E-03	6.84	2.3431E-05	0.001062615	0.001086046	9.57818E-05	2.29674E-06	1.18E-03	3.43E-06	1.55E-04	1.40E-05	3.36E-07	*1.73E-04*	0.01978735	0.8973847	0.08088834	0.00193961
	4,4'-DDE	0.052519	0.00002274	0.0047	2.28E-03	0.83	0.00013879	0.001147415	0.001286208	0.000123052	2.29674E-06	1.41E-03	1.68E-04	1.39E-03	1.49E-04	2.78E-06	*1.71E-03*	0.0983263	0.81287194	0.08717466	0.0016271
	4,4'-DDT	0.024519	0.00002274	0.0005	3.94E-03	0.64	1.4626E-05	0.001981394	0.001996019	5.7448E-05	2.29674E-06	2.06E-03	2.27E-05	3.08E-03	8.93E-05	3.57E-06	*3.20E-03*	0.0071144	0.96382353	0.02794485	0.00111722
	Aldrin	0.002267	0.00001274	0.0003		0.16	7.5366E-06	0	7.53662E-06	5.31158E-06	1.28674E-06	1.41E-05	4.69E-05	0.00E+00	3.30E-05	8.00E-06	*8.79E-05*	0.53319076	0	0.37577667	0.09103257
	alpha-Chlordane	0.004639	0.00001274	0.0003	4.75E-04	1.99	7.5366E-06	0.000238881	0.000246418	1.08692E-05	1.28674E-06	2.59E-04	3.78E-06	1.20E-04	5.45E-06	6.46E-07	*1.30E-04*	0.02914686	0.92384179	0.04203507	0.00497629
	Aroclor 1248	0.042555	0.0002138	0.0025		0.57	0.00007462	0	0.00007462	9.97064E-05	2.15938E-05	1.96E-04	1.32E-04	0.00E+00	1.76E-04	3.82E-05	*3.46E-04*	0.38086942	0	0.50891324	0.11021734
	Aroclor 1254	0.042555	0.0002138	0.0025		0.15	0.00007462	0	0.00007462	9.97064E-05	2.15938E-05	1.96E-04	5.10E-04	0.00E+00	6.81E-04	1.48E-04	*1.34E-03*	0.38086942	0	0.50891324	0.11021734
	Aroclor 1260	0.042555	0.0002138	0.0052	2.66E-03	0.28	0.00015372	0.001337252	0.00149097	9.97064E-05	2.15938E-05	1.61E-03	5.54E-04	4.82E-03	3.59E-04	7.78E-05	*5.81E-03*	0.09534211	0.82942224	0.06184223	0.01339342
	beta-BHC	0.002187	0.00001274	0.0003		3.22	7.5366E-06	0	7.53662E-06	5.12414E-06	1.28674E-06	1.39E-05	2.34E-06	0.00E+00	1.59E-06	4.00E-07	*4.34E-06*	0.5403563	0	0.36738775	0.09225595
	delta-BHC	0.002267	0.00001274	0.0003		1.29	7.5366E-06	0	7.53662E-06	5.31158E-06	1.28674E-06	1.41E-05	5.86E-06	0.00E+00	4.13E-06	1.00E-06	*1.10E-05*	0.53319076	0	0.37577667	0.09103257
	Endosulfan I	0.005607	0.00001274	0.0003	9.23E-04	1.21	7.5366E-06	0.000464248	0.000471784	1.31372E-05	1.28674E-06	4.86E-04	6.25E-06	3.85E-04	1.09E-05	1.07E-06	*4.03E-04*	0.0155008	0.95483303	0.02701969	0.00264648
	Endosulfan Sulfate	0.004192	0.00002274	0.0005		1.21	1.4626E-05	0	1.46255E-05	9.82186E-06	2.29674E-06	2.67E-05	1.21E-05	0.00E+00	8.14E-06	1.90E-06	*2.22E-05*	0.5468687	0	0.36725297	0.08587833
	Endrin Aldehyde	0.0060071	0.00002274	0.0005	1.85E-03	0.04	1.4626E-05	0.000928872	0.000943498	1.40747E-05	2.29674E-06	9.60E-04	3.65E-04	2.32E-02	3.52E-04	5.74E-05	*2.40E-02*	0.01523699	0.96770706	0.01466318	0.00239276
	gamma-Chlordane	0.002178	0.00001274	0.0003	2.09E-04	1.99	7.5366E-06	0.000105189	0.000112725	5.10305E-06	1.28674E-06	1.19E-04	3.78E-06	5.28E-05	2.56E-06	6.46E-07	*5.98E-05*	0.06327179	0.88308431	0.0428414	0.0108025
	Inorganics																				
X	Aluminum	6157.2727	0.56741	9.7500	1.02E+02	41.82	0.291018	51.56725847	51.85827647	14.42649	0.05730841	6.63E+01	6.96E-03	1.23E+00	3.45E-01	1.37E-03	*1.59E+00*	0.00438663	0.77729342	0.21745612	0.00086383
	Antimony	1.2254545	0.00571	0.0480		0.05	0.0014327	0	0.001432704	0.00287124	0.00057671	4.88E-03	2.63E-02	0.00E+00	5.28E-02	1.06E-02	*8.97E-02*	0.29354755	0	0.58829	0.11816245
X	Arsenic	17.618182	0.00447	0.1925	0.93	0.05	0.00574574	0.46722989	0.47297563	0.021052494	0.00045147	4.94E-01	1.05E-01	8.52E+00	3.84E-01	8.23E-03	*9.02E+00*	0.01161977	0.94489216	0.04257505	0.00091302
	Barium	57.118182	0.0315	15.4000	5.57	4.33	0.4596592	2.802340154	3.261999354	0.1338279	0.0031815	3.40E+00	1.06E-01	6.47E-01	3.09E-02	7.35E-04	*7.85E-01*	0.13523331	0.82445806	0.03937263	0.00093601
	Beryllium	0.4695455	0.0000858	0.0044		0.53	0.00013126	0	0.000131257	0.001100145	8.6658E-06	1.24E-03	2.47E-04	0.00E+00	2.07E-03	1.63E-05	*2.34E-03*	0.10584632	0	0.88716551	0.00698817
	Cadmium	1.5266809	0.000264	0.0800	0.16	0.78	0.00238784	0.082288473	0.084676313	0.003577013	0.000026664	8.83E-02	3.08E-03	1.06E-01	4.61E-03	3.44E-05	*1.14E-01*	0.02704848	0.93213052	0.04051896	0.00030204
	Chromium	105.84545	0.002862	0.1800	1.98	7.24	0.00537264	0.99523072	1.00060336	0.2479959	0.000289062	1.25E+00	7.42E-04	1.38E-01	3.43E-02	3.99E-05	*1.73E-01*	0.00430194	0.79689329	0.19857332	0.00023146
	Cobalt	7.8872727	0.00212	0.4200	0.70	4.02	0.01253616	0.352468481	0.365004641	0.01847988	0.00021412	3.84E-01	3.12E-03	8.77E-02	4.60E-03	5.33E-05	*9.54E-02*	0.03267189	0.91860758	0.04816248	0.00055804
	Copper	74.1	0.003745	20.1000	3.75	12.23	0.5999448	1.888317232	2.488262032	0.1736163	0.000378245	2.66E+00	4.90E-02	1.54E-01	1.42E-02	3.09E-05	*2.18E-01*	0.22535198	0.70929198	0.06521396	0.00014208
	Cyanide	0.333	0.0025	0.2175		51.90	0.00649194	0	0.00649194	0.000780219	0.0002525	7.52E-03	1.25E-04	0.00E+00	1.50E-05	4.87E-06	*1.45E-04*	0.86275538	0	0.10368829	0.03355634
X	Iron	15909.091	3.9402	66.3500	1316.95	2.57	1.9804148	662.6266891	664.6071039	37.275	0.3979602	7.02E+02	7.72E-01	2.58E+02	1.45E+01	1.55E-01	*2.74E+02*	0.00281998	0.94353624	0.05307712	0.00056667
	Lead	100.88182	0.01235	0.0333	9.20	6.43	0.00099245	4.628957504	4.62994995	0.2363661	0.00124735	4.87E+00	1.54E-04	7.20E-01	3.67E-02	1.94E-04	*7.57E-01*	0.00020389	0.95098042	0.04855943	0.00025626
X	Manganese	569.51818	0.6495	106.0000	321.16	70.76	3.163888	161.5904781	164.7543661	1.3343811	0.0655995	1.66E+02	4.47E-02	2.28E+00	1.89E-02	9.27E-04	*2.35E+00*	0.01904186	0.97253236	0.00803097	0.00039481
	Mercury	0.159625	0.0000581	0.0055	0.01	0.03	0.00016416	0.002813447	0.002977611	0.000374001	5.8681E-06	3.36E-03	6.38E-03	1.09E-01	1.45E-02	2.28E-04	*1.30E-01*	0.04889499	0.83796378	0.11139345	0.00174777
	Nickel	11.527273	0.001962	0.1600	0.30	32.17	0.00477568	0.149832576	0.154608256	0.0270084	0.000198162	1.82E-01	1.48E-04	4.66E-03	8.40E-04	6.16E-06	*5.65E-03*	0.02626673	0.82409441	0.14854895	0.00108991
	Selenium	0.8468182	0.0009	0.1600	0.07	0.16	0.00477568	0.036610792	0.041386472	0.001984095	0.0000909	4.35E-02	2.97E-02	2.28E-01	1.23E-02	5.65E-04	*2.70E-01*	0.10988308	0.84237359	0.04565182	0.00209151
	Silver	0.2875	0.000314	0.1550		145.71	0.00462644	0	0.00462644	0.000673613	0.000031714	5.33E-03	3.18E-05	0.00E+00	4.62E-06	2.18E-07	*3.66E-05*	0.86771242	0	0.12633946	0.00594812
	Thallium	0.377	0.00066	0.0650		0.06	0.00194012	0	0.00194012	0.000883311	0.00006666	2.89E-03	3.23E-02	0.00E+00	1.47E-02	1.11E-03	*4.81E-02*	0.67130066	0	0.30563432	0.02306502
X	Vanadium	22.727273	0.003153	0.0000	0.79	0.16	0	0.397898448	0.397898448	0.05325	0.000318453	4.51E-01	0.00E+00	2.54E+00	3.40E-01	2.03E-03	*2.88E+00*	0	0.88134578	0.11794885	0.00070537
	Zinc	191.39091	0.02006	18.1500	7.41	128.66	0.5417412	3.727958262	4.269699462	0.4484289	0.00202606	4.72E+00	4.21E-03	2.90E-02	3.49E-03	1.57E-05	*3.67E-02*	0.11477192	0.78979583	0.09500301	0.00042924

Table E.1-46. Exposure Calculatioins for Muskrat - Wetland Reference

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			wetland	2 ref samples																	
	Volatile Organics																				
	2-Butanone	0.0086	0.0025			9.730183192	0	0	0	2.01498E-05	0.0002525	2.73E-04	0.00E+00	0.00E+00	2.07E-06	2.60E-05	*2.80E-05*	0	0	0.07390359	0.92609641
	Acetone	0.0341	0.0025			1367.050531	0	0	0	7.98963E-05	0.0002525	3.32E-04	0.00E+00	0.00E+00	5.84E-08	1.85E-07	*2.43E-07*	0	0	0.24036459	0.75963541
	cis-1,2-Dichloroethene	0.0115	0.0005			2504.114914	0	0	0	2.69445E-05	0.0000505	7.74E-05	0.00E+00	0.00E+00	1.08E-08	2.02E-08	*3.09E-08*	0	0	0.34792012	0.65207988
	Tetrachloroethene	0.01291667	0.0005			6.09153838	0	0	0	3.02638E-05	0.0000505	8.08E-05	0.00E+00	0.00E+00	4.97E-06	8.29E-06	*1.33E-05*	0	0	0.37471948	0.62528052
	Trichloroethene	0.00908333	0.0005			3.04576919	0	0	0	2.12822E-05	0.0000505	7.18E-05	0.00E+00	0.00E+00	6.99E-06	1.66E-05	*2.36E-05*	0	0	0.29648346	0.70351654
	Semivolatile Organics																				
	2-Methylnaphthalene	0.19466667	0.0025			62.53	0	0	0	0.000456104	0.0002525	7.09E-04	0.00E+00	0.00E+00	7.29E-06	4.04E-06	*1.13E-05*	0	0	0.64366557	0.35633443
	Acenaphthylene	0.2425	0.0025			58.00	0	0	0	0.000568178	0.0002525	8.21E-04	0.00E+00	0.00E+00	9.80E-06	4.35E-06	*1.41E-05*	0	0	0.69232738	0.30767262
	Anthracene	0.44016667	0.0025			435.11	0	0	0	0.001031311	0.0002525	1.28E-03	0.00E+00	0.00E+00	2.37E-06	5.80E-07	*2.95E-06*	0	0	0.80331988	0.19668012
	Benzo(a)anthracene	1.36	0.0025			0.57	0	0	0	0.00318648	0.0002525	3.44E-03	0.00E+00	0.00E+00	5.63E-03	4.46E-04	*6.08E-03*	0	0	0.92657707	0.07342293
	Benzo(a)pyrene	1.23333333	0.0025		0.20	0.57	0	0.098456878	0.098456878	0.0028897	0.0002525	1.02E-01	0.00E+00	1.74E-01	5.11E-03	4.46E-04	*1.80E-01*	0	0.96907255	0.02844219	0.00248526
	Benzo(b)fluoranthene	2.18833333	0.0025		0.17	0.57	0	0.083781112	0.083781112	0.005127265	0.0002525	8.92E-02	0.00E+00	1.48E-01	9.06E-03	4.46E-04	*1.58E-01*	0	0.93966227	0.05750577	0.00283196
	Benzo(g,h,i)perylene	0.37583333	0.0025			58.00	0	0	0	0.000880577	0.0002525	1.13E-03	0.00E+00	0.00E+00	1.52E-05	4.35E-06	*1.95E-05*	0	0	0.77715558	0.22284442
	Benzo(k)fluoranthene	2.0225	0.0025		0.40	0.57	0	0.202512539	0.202512539	0.004738718	0.0002525	2.08E-01	0.00E+00	3.58E-01	8.38E-03	4.46E-04	*3.67E-01*	0	0.97594638	0.02283678	0.00121685
	Carbazole	0.3226	0			58.00014758	0	0	0	0.000755852	0	7.56E-04	0.00E+00	0.00E+00	1.30E-05	0.00E+00	*1.30E-05*	0	0	1	0
	Chrysene	1.61	0.0025		0.19	0.57	0	0.09448623	0.09448623	0.00377223	0.0002525	9.85E-02	0.00E+00	1.67E-01	6.67E-03	4.46E-04	*1.74E-01*	0	0.95914434	0.03829249	0.00256317
	Dibenz(a,h)anthracene	0.23416667	0.0025			0.57	0	0	0	0.000548653	0.0002525	8.01E-04	0.00E+00	0.00E+00	9.70E-04	4.46E-04	*1.42E-03*	0	0	0.68482904	0.31517096
	Dibenzofuran	0.357	0.0025			58.00	0	0	0	0.000836451	0.0002525	1.09E-03	0.00E+00	0.00E+00	1.44E-05	4.35E-06	*1.88E-05*	0	0	0.76812547	0.23187453
	Fluoranthene	3.29333333	0.0025		0.16	54.39	0	0.078285201	0.078285201	0.00771628	0.0002525	8.63E-02	0.00E+00	1.44E-03	1.42E-04	4.64E-06	*1.59E-03*	0	0.90761261	0.08945999	0.0029274
	Fluorene	0.56833333	0.0025			54.39	0	0	0	0.001331605	0.0002525	1.58E-03	0.00E+00	0.00E+00	2.45E-05	4.64E-06	*2.91E-05*	0	0	0.840604	0.159396
	Indeno(1,2,3-cd)pyrene	0.5175	0.0025		0.22	0.57	0	0.109624328	0.109624328	0.001212503	0.0002525	1.11E-01	0.00E+00	1.94E-01	2.14E-03	4.46E-04	*1.96E-01*	0	0.98681239	0.01091466	0.00227295
	Naphthalene	0.221333	0.0025			60.92	0	0	0	0.000518583	0.0002525	7.71E-04	0.00E+00	0.00E+00	8.51E-06	4.15E-06	*1.27E-05*	0	0	0.67253859	0.32746141
	N-nitrosodiphenylamine	0.367	0.0025			120.62	0	0	0	0.000859881	0.0002525	1.11E-03	0.00E+00	0.00E+00	7.13E-06	2.09E-06	*9.22E-06*	0	0	0.77300943	0.22699057
	Phenanthrene	2.40833333	0.0025		0.65	58.00	0	0.326141192	0.326141192	0.005642725	0.0002525	3.32E-01	0.00E+00	5.62E-03	9.73E-05	4.35E-06	*5.72E-03*	0	0.98224525	0.0169943	0.00076046
	Pyrene	2.57666667	0.0025		0.16	58.00	0	0.079434562	0.079434562	0.00603713	0.0002525	8.57E-02	0.00E+00	1.37E-03	1.04E-04	4.35E-06	*1.48E-03*	0	0.92662946	0.07042504	0.00294549
	Pesticides and PCBs																				
	4,4'-DDD	0.09471667	0.00005	0.0008	4.89E-03	6.84	2.34307E-05	0.002462019	0.00248545	0.000221921	0.00000505	2.71E-03	3.43E-06	3.60E-04	3.25E-05	7.39E-07	*3.97E-04*	0.00863829	0.90768327	0.08181663	0.00186181
	4,4'-DDE	0.01258333	0.00005	0.0047	5.46E-04	0.83	0.000138793	0.000274916	0.000413709	2.94827E-05	0.00000505	4.48E-04	1.68E-04	3.33E-04	3.57E-05	6.11E-06	*5.42E-04*	0.30963909	0.61332047	0.0657742	0.01126624
	4,4'-DDT	0.03416667	0.00005	0.0005	5.49E-03	0.64	1.46255E-05	0.002761027	0.002775652	8.00525E-05	0.00000505	2.86E-03	2.27E-05	4.29E-03	1.24E-04	7.85E-06	*4.45E-03*	0.00511247	0.96513927	0.027983	0.00176527
	Aldrin	0.00076583	0.000025	0.0003		0.16	7.53662E-06	0	7.53662E-06	1.79435E-06	0.000002525	1.19E-05	4.69E-05	0.00E+00	1.12E-05	1.57E-05	*7.37E-05*	0.63568157	0	0.15134551	0.21297292
	alpha-Chlordane	0.0018275	0.000025	0.0003	1.87E-04	1.99	7.53662E-06	9.41056E-05	0.000101642	4.28183E-06	0.000002525	1.08E-04	3.78E-06	4.72E-05	2.15E-06	1.27E-06	*5.44E-05*	0.06949456	0.86774019	0.03948243	0.02328282
	Aroclor 1248	0.06383333	0.0005	0.0025		0.57	0.00007462	0	0.00007462	0.000149561	0.0000505	2.75E-04	1.32E-04	0.00E+00	2.64E-04	8.93E-05	*4.86E-04*	0.27166009	0	0.54449062	0.18384929
	Aroclor 1254	0.01576667	0.0005	0.0025		0.15	0.00007462	0	0.00007462	3.69413E-05	0.0000505	1.62E-04	5.10E-04	0.00E+00	2.52E-04	3.45E-04	*1.11E-03*	0.46044305	0	0.22794646	0.31161048
	Aroclor 1260	0.04883333	0.0005	0.0052	3.05E-03	0.28	0.000153717	0.001534543	0.001688261	0.000114416	0.0000505	1.85E-03	5.54E-04	5.53E-03	4.12E-04	1.82E-04	*6.68E-03*	0.08294793	0.82806085	0.06174073	0.0272505
	beta-BHC	0.00079417	0.000025	0.0003		3.22	7.53662E-06	0	7.53662E-06	1.86073E-06	0.000002525	1.19E-05	2.34E-06	0.00E+00	5.78E-07	7.85E-07	*3.71E-06*	0.63214202	0	0.15607092	0.21178706
	delta-BHC	0.0009275	0.000025	0.0003		1.29	7.53662E-06	0	7.53662E-06	2.17313E-06	0.000002525	1.22E-05	5.86E-06	0.00E+00	1.69E-06	1.96E-06	*9.51E-06*	0.61600102	0	0.17761965	0.20637933
	Endosulfan I	0.00078083	0.000025	0.0003	1.28E-04	1.21	7.53662E-06	6.46514E-05	7.2188E-05	1.82949E-06	0.000002525	7.65E-05	6.25E-06	5.36E-05	1.52E-06	2.09E-06	*6.35E-05*	0.09846325	0.84464686	0.02390167	0.03298822
	Endosulfan Sulfate	0.00253333	0.00005	0.0005		1.21	1.46255E-05	0	1.46255E-05	5.9356E-06	0.00000505	2.56E-05	1.21E-05	0.00E+00	4.92E-06	4.19E-06	*2.12E-05*	0.57106132	0	0.2317587	0.19717998
	Endrin Aldehyde	0.00236667	0.00005	0.0005	7.27E-04	0.04	1.46255E-05	0.000365953	0.000380578	5.5451E-06	0.00000505	3.91E-04	3.65E-04	9.14E-03	1.39E-04	1.26E-04	*9.77E-03*	0.03738884	0.93552573	0.01417555	0.01290987
	gamma-Chlordane	0.00214417	0.0000017	0.0003	2.06E-04	1.99	7.53662E-06	0.000103555	0.000111091	5.02378E-06	1.717E-07	1.16E-04	3.78E-06	5.20E-05	2.52E-06	8.62E-08	*5.84E-05*	0.06481069	0.89051109	0.0432017	0.00147652
	Inorganics																				
X	Aluminum	8195	0.142	9.7500	1.36E+02	41.82	0.291018	68.63325727	68.92427527	19.200885	0.014342	8.81E+01	6.96E-03	1.64E+00	4.59E-01	3.43E-04	*2.11E+00*	0.00330179	0.77868896	0.21784653	0.00016272
	Antimony	0.7516667	0.00055	0.0480		0.05	0.001432704	0	0.001432704	0.001761155	0.00005555	3.25E-03	2.63E-02	0.00E+00	3.24E-02	1.02E-03	*5.97E-02*	0.44091217	0	0.54199242	0.01709542
X	Arsenic	20.55	0.0032	0.1925	1.08	0.05	0.00574574	0.544980994	0.550726734	0.024555812	0.0003232	5.76E-01	1.05E-01	9.94E+00	4.48E-01	5.90E-03	*1.05E+01*	0.00998208	0.94679561	0.04266082	0.0005615
	Barium	47.8833333	0.0451	15.4000	4.67	4.33	0.4596592	2.349258737	2.808917937	0.11219065	0.0045551	2.93E+00	1.06E-01	5.43E-01	2.59E-02	1.05E-03	*6.76E-01*	0.1571128	0.80298318	0.03834708	0.00155695
	Beryllium	0.6558333	0.00005	0.0044		0.53	0.000131257	0	0.000131257	0.001536617	0.00000505	1.67E-03	2.47E-04	0.00E+00	2.90E-03	9.52E-06	*3.15E-03*	0.07845938	0	0.91852195	0.00301867
	Cadmium	1.3033333	0.000075	0.0800	0.14	0.78	0.00238784	0.070249983	0.072637823	0.00305371	0.000007575	7.57E-02	3.08E-03	9.06E-02	3.94E-03	9.77E-06	*9.76E-02*	0.03154383	0.928016	0.0403401	0.00010007
	Chromium	129.1	0.00088	0.1800	2.41	7.24	0.00537264	1.213885722	1.219258362	0.3024813	0.00008888	1.52E+00	7.42E-04	1.68E-01	4.18E-02	1.23E-05	*2.10E-01*	0.00353038	0.79764946	0.19876175	5.8403E-05
	Cobalt	8.3666667	0.00025	0.4200	0.74	4.02	0.01253616	0.373891764	0.386427924	0.0196031	0.00002525	4.06E-01	3.12E-03	9.30E-02	4.88E-03	6.28E-06	*1.01E-01*	0.03087296	0.92078805	0.04827681	6.2183E-05
	Copper	56.8333333	0.0039	20.1000	2.88	12.23	0.5999448	1.448304489	2.048249289	0.1331605	0.0003939	2.18E+00	4.90E-02	1.18E-01	1.09E-02	3.22E-05	*1.78E-01*	0.27497653	0.66381063	0.0610323	0.00018054
	Cyanide	0.4349983	0.0025	0.2175		51.90	0.00649194	0	0.00649194	0.001019201	0.0002525	7.76E-03	1.25E-04	0.00E+00	1.96E-05	4.87E-06	*1.50E-04*	0.83619786	0	0.13127874	0.0325234
X	Iron	15518.3333	2.78	66.3500	1284.60	2.57	1.9804148	646.3513155	648.3317303	36.359455	0.28078	6.85E+02	7.72E-01	2.52E+02	1.42E+01	1.09E-01	*2.67E+02*	0.00289123	0.94361718	0.05308167	0.00040991
X	Lead	331.866667	0.0063	0.0333	30.26	6.43	0.000992446	15.22768646	15.22867891	0.7775636	0.0006363	1.60E+01	1.54E-04	2.37E+00	1.21E-01	9.89E-05	*2.49E+00*	6.2001E-05	0.95132141	0.04857684	3.9752E-05
	Manganese	133.483333	0.52	106.0000	75.27	70.76	3.163888	37.87348032	41.03736832	0.31275145	0.05252	4.14E+01	4.47E-02	5.35E-01	4.42E-03	7.42E-04	*5.85E-01*	0.07641754	0.91476004	0.0075539	0.00126852
	Mercury	0.279	0.00013	0.0055	0.01	0.03	0.000164164	0.004917474	0.005081638	0.000653697	0.00001313	5.75E-03	6.38E-03	1.91E-01	2.54E-02	5.10E-04	*2.23E-01*	0.02855788	0.85544124	0.11371679	0.00228409
	Nickel	18.9166667	0.0018	0.1600	0.49	32.17	0.00477568	0.245880614	0.250656294	0.04432175	0.0001818	2.95E-01	1.48E-04	7.64E-03	1.38E-03	5.65E-06	*9.18E-03*	0.01617998	0.83304223	0.15016186	0.00061594
	Selenium	0.7566667	0.00095	0.1600	0.07	0.16	0.00477568	0.03271324	0.03748892	0.00177287	0.00009595	3.94E-02	2.97E-02	2.03E-01	1.10E-02	5.97E-04	*2.45E-01*	0.1213403	0.83117679	0.04504502	0.00243789
	Silver	1.11	0.0002	0.1550		145.71	0.00462644	0	0.00462644	0.00260073	0.0000202	7.25E-03	3.18E-05	0.00E+00	1.78E-05	1.39E-07	*4.97E-05*	0.63836123	0	0.35885156	0.00278722
	Thallium	0.465	0.00075	0.0650		0.06	0.00194012	0	0.00194012	0.001089495	0.00007575	3.11E-03	3.23E-02	0.00E+00	1.81E-02	1.26E-03	*5.16E-02*	0.62476392	0	0.35084282	0.02439327
X	Vanadium	55.6666667	0.000275	0.0000	1.94	0.16	0	0.974585933	0.974585933	0.130427	0.000027775	1.11E+00	0.00E+00	6.22E+00	8.32E-01	1.77E-04	*7.05E+00*	0	0.88194573	0.11802914	2.5135E-05
	Zinc	154.6	0.0161	18.1500	5.98	128.66	0.5417412	3.011336066	3.553077266	0.3622278	0.0016261	3.92E+00	4.21E-03	2.34E-02	2.82E-03	1.26E-05	*3.04E-02*	0.13830756	0.76879984	0.09247745	0.00041515

Table E.1-47. Average Exposure Calculations for Heron (Site-Wide)

	Mean Concentrations																					
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Fish} (mg/Kg)	$C_{Crayfish}$ (mg/Kg)	TRV mg/Kg day	DOSE fish	DOSE crayfish	DOSE prey (f+cf)	DOSE soil/ sediment	DOSE water	Total Dose	HQ fish	HQ crayfish	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ fish	% HQ crayfish	% HQ prey (f + cf)	% HQ soil/ sediment	% HQ water
	Volatile Organics																					
	2-Butanone	0.03875532	0.0025			12.1	0	0	0	8.7975E-06	0.0001225	1.31E-04	0.00E+00	0.00E+00	7.27E-07	1.01E-05	*1.09E-05*	0	0	0	0.06700402	0.93299598
	Acetone	0.34410577	0.0025			1700	0	0	0	7.8112E-05	0.0001225	2.01E-04	0.00E+00	0.00E+00	4.59E-08	7.21E-08	*1.18E-07*	0	0	0	0.38936856	0.61063144
	cis-1,2-Dichloroethene	0.09613889	0.00090625			3114	0	0	0	2.1824E-05	4.44063E-05	6.62E-05	0.00E+00	0.00E+00	7.01E-09	1.43E-08	*2.13E-08*	0	0	0	0.32951232	0.67048768
	Tetrachloroethene	0.03569091	0.00059375			14	0	0	0	8.1018E-06	2.90938E-05	3.72E-05	0.00E+00	0.00E+00	5.79E-07	2.08E-06	*2.66E-06*	0	0	0	0.21781714	0.78218286
	Trichloroethene	0.05520536	0.0006875			7	0	0	0	1.2532E-05	3.36875E-05	4.62E-05	0.00E+00	0.00E+00	1.79E-06	4.81E-06	*6.60E-06*	0	0	0	0.27113491	0.72886509
	Semivolatile Organics																					
	2-Methylnaphthalene	0.20409322	0.0025			143.70	0	0	0	0.000046	0.0001225	1.69E-04	0.00E+00	0.00E+00	3.22E-07	8.52E-07	*1.17E-06*	0	0	0	0.27441445	0.72558555
	Acenaphthylene	0.19940678	0.0025			133.30	0	0	0	0.000045	0.0001225	1.68E-04	0.00E+00	0.00E+00	3.40E-07	9.19E-07	*1.26E-06*	0	0	0	0.26981341	0.73018659
	Anthracene	0.263375	0.0025			1000.00	0	0	0	0.000060	0.0001225	1.82E-04	0.00E+00	0.00E+00	5.98E-08	1.23E-07	*1.82E-07*	0	0	0	0.32797957	0.67202043
	Benzo(a)anthracene	0.88295714	0.0025			1.30	0	0	0	0.000200	0.0001225	3.23E-04	0.00E+00	0.00E+00	1.54E-04	9.42E-05	*2.48E-04*	0	0	0	0.62066232	0.37933768
	Benzo(a)pyrene	0.91715714	0.0025			1.30	0	0	0	0.000208	0.0001225	3.31E-04	0.00E+00	0.00E+00	1.60E-04	9.42E-05	*2.54E-04*	0	0	0	0.62956766	0.37043234
	Benzo(b)fluoranthene	1.52488158	0.0025			1.30	0	0	0	0.000346	0.0001225	4.69E-04	0.00E+00	0.00E+00	2.66E-04	9.42E-05	*3.60E-04*	0	0	0	0.73860985	0.26139015
	Benzo(g,h,i)perylene	0.54896875	0.0025			133.30	0	0	0	0.000125	0.0001225	2.47E-04	0.00E+00	0.00E+00	9.35E-07	9.19E-07	*1.85E-06*	0	0	0	0.5042812	0.4957188
	Benzo(k)fluoranthene	1.095975	0.0025			1.30	0	0	0	0.000249	0.0001225	3.71E-04	0.00E+00	0.00E+00	1.91E-04	9.42E-05	*2.86E-04*	0	0	0	0.67006595	0.32993405
	Carbazole	0.24511111	0			133.30	0	0	0	0.000056	0	5.56E-05	0.00E+00	0.00E+00	4.17E-07	0.00E+00	*4.17E-07*	0	0	0	1	0
	Chrysene	1.10639437	0.0025			1.30	0	0	0	0.000251	0.0001225	3.74E-04	0.00E+00	0.00E+00	1.93E-04	9.42E-05	*2.87E-04*	0	0	0	0.67215442	0.32784558
	Dibenz(a,h)anthracene	0.27028689	0.0025			1.30	0	0	0	0.000061	0.0001225	1.84E-04	0.00E+00	0.00E+00	4.72E-05	9.42E-05	*1.41E-04*	0	0	0	0.33371451	0.66628549
	Dibenzofuran	0.26276744	0.0025			133.30	0	0	0	0.000060	0.0001225	1.82E-04	0.00E+00	0.00E+00	4.47E-07	9.19E-07	*1.37E-06*	0	0	0	0.32747074	0.67252926
	Fluoranthene	1.90036842	0.0025			125.00	0	0	0	0.000431	0.0001225	5.54E-04	0.00E+00	0.00E+00	3.45E-06	9.80E-07	*4.43E-06*	0	0	0	0.77883441	0.22116559
	Fluorene	0.2222	0.0025			125.00	0	0	0	0.000050	0.0001225	1.73E-04	0.00E+00	0.00E+00	4.04E-07	9.80E-07	*1.38E-06*	0	0	0	0.29165939	0.70834061
	Indeno(1,2,3-cd)pyrene	0.59153731	0.0025			1.30	0	0	0	0.000134	0.0001225	2.57E-04	0.00E+00	0.00E+00	1.03E-04	9.42E-05	*1.98E-04*	0	0	0	0.52293601	0.47706399
	Naphthalene	0.256058	0.0025			140.00	0	0	0	0.000058	0.0001225	1.81E-04	0.00E+00	0.00E+00	4.15E-07	8.75E-07	*1.29E-06*	0	0	0	0.32179993	0.67820007
	N-nitrosodiphenylamine	0.28115217	0.0025			150.00	0	0	0	0.000064	0.0001225	1.86E-04	0.00E+00	0.00E+00	4.25E-07	8.17E-07	*1.24E-06*	0	0	0	0.34253443	0.65746557
	Phenanthrene	0.92373134	0.0025			133.30	0	0	0	0.000210	0.0001225	3.32E-04	0.00E+00	0.00E+00	1.57E-06	9.19E-07	*2.49E-06*	0	0	0	0.63123182	0.36876818
	Pyrene	1.536	0.0025			133.30	0	0	0	0.000349	0.0001225	4.71E-04	0.00E+00	0.00E+00	2.62E-06	9.19E-07	*3.53E-06*	0	0	0	0.74001002	0.25998998
	Pesticides and PCBs																					
	4,4'-DDD	0.02676403	0.00005	0.02417	0.0024	8.50	0.00103327	0.000125988	0.001159255	0.000006	0.00000245	1.17E-03	1.22E-04	1.48E-05	7.15E-07	2.88E-07	*1.37E-04*	0.88481293	0.10788653	0.99269946	0.00520255	0.002098
	4,4'-DDE	0.01714065	0.00005	0.02961667	0.0050	1.90	0.00126611	0.00026027	0.001526383	0.000004	0.00000245	1.53E-03	6.66E-04	1.37E-04	2.05E-06	1.29E-06	*8.07E-04*	0.82605395	0.16980902	0.99586297	0.00253857	0.00159846
	4,4'-DDT	0.0054744	0.00005	0.00515333	0.0012	0.00	0.0002203	6.04794E-05	0.000280784	0.000001	0.00000245	2.84E-04	7.87E-02	2.16E-02	4.44E-04	8.75E-04	*1.02E-01*	0.77442095	0.21259842	0.98701938	0.00436833	0.00861229
	Aldrin	0.00137322	0.000025	0.00145367	0.0003	0.20	6.2144E-05	1.48586E-05	7.70028E-05	0.000000	0.000001225	7.85E-05	3.11E-04	7.43E-05	1.56E-06	6.13E-06	*3.93E-04*	0.7912477	0.18918609	0.9804338	0.00396897	0.01559723
	alpha-Chlordane	0.01182616	2.3653E-05	0.01799167	0.0009	2.14	0.00076914	4.85272E-05	0.000817671	0.000003	1.15899E-06	8.22E-04	3.59E-04	2.27E-05	1.25E-06	5.42E-07	*3.84E-04*	0.93625101	0.0590704	0.99532141	0.00326779	0.0014108
	Aroclor 1248	0.05514643	0.0005	0.01848	0.0026	0.98	0.00079002	0.000137483	0.000927503	0.000013	0.0000245	9.65E-04	8.06E-04	1.40E-04	1.28E-05	2.50E-05	*9.84E-04*	0.8190801	0.14253998	0.96162008	0.01297871	0.02540121
	Aroclor 1254	0.02154107	0.0005	0.08945	0.0157	1.50	0.00382399	0.000819672	0.004643659	0.000005	0.0000245	4.67E-03	2.55E-03	5.46E-04	3.26E-06	1.63E-05	*3.12E-03*	0.81830671	0.17540408	0.99371078	0.00104639	0.00524283
	Aroclor 1260	0.06308966	0.0005	0.0675	0.0258	0.35	0.00288563	0.00134903	0.004234655	0.000014	0.0000245	4.27E-03	8.36E-03	3.91E-03	4.15E-05	7.10E-05	*1.24E-02*	0.67524071	0.31567503	0.99091574	0.00335122	0.00573304
	beta-BHC	0.00139703	0.000025	0.00136667	0.0003	4.00	5.8425E-05	1.45647E-05	7.29897E-05	0.000000	0.000001225	7.45E-05	1.46E-05	3.64E-06	7.93E-08	3.06E-07	*1.86E-05*	0.78389345	0.19541571	0.97930916	0.00425491	0.01643593
	delta-BHC	0.00194259	0.000025	0.00131667	0.0003	1.60	5.6288E-05	1.39442E-05	7.02317E-05	0.000000	0.000001225	7.19E-05	3.52E-05	8.72E-06	2.76E-07	7.66E-07	*4.49E-05*	0.78288334	0.1939453	0.97682864	0.00613326	0.0170381
	Endosulfan I	0.00478091	0.000025	0.00143567	0.0004	10.00	6.1375E-05	1.99203E-05	8.12951E-05	0.000001	0.000001225	8.36E-05	6.14E-06	1.99E-06	1.09E-07	1.23E-07	*8.36E-06*	0.73410094	0.23826606	0.972367	0.01298083	0.01465218
	Endosulfan Sulfate	0.00229061	0.00005	0.00267833	0.0008	10.00	0.0001145	3.98406E-05	0.000154339	0.000001	0.00000245	1.57E-04	1.14E-05	3.98E-06	5.20E-08	2.45E-07	*1.57E-05*	0.72785727	0.25326293	0.9811202	0.00330539	0.01557441
	Endrin Aldehyde	0.00297	0.00005	0.00279833	0.0020	0.30	0.00011963	0.000106786	0.000226415	0.000001	0.00000245	2.30E-04	3.99E-04	3.56E-04	2.25E-06	8.17E-06	*7.65E-04*	0.52116988	0.4652194	0.98638928	0.00293715	0.01067357
	gamma-Chlordane	0.01553268	2.3612E-05	0.00821833	0.0004	2.14	0.00035133	2.08347E-05	0.000372168	0.000004	1.15698E-06	3.77E-04	1.64E-04	9.74E-06	1.65E-06	5.41E-07	*1.76E-04*	0.9322874	0.05528622	0.98757363	0.00935626	0.00307012
	Inorganics																					
	Aluminum	10222.8962	0.25301176	0.00844394	50.0063	109.70	0.00036098	2.612826563	2.613187541	2.320597	0.012397576	4.95E+00	3.29E-06	2.38E-02	2.12E-02	1.13E-04	*4.51E-02*	7.2981E-05	0.52825114	0.52832412	0.46916939	0.00250649
	Antimony	5.5715253	0.00067941	5.5828E-05	0.0484	0.13	2.3866E-06	0.002530394	0.002532781	0.001265	3.32912E-05	3.83E-03	1.91E-05	2.02E-02	1.01E-02	2.66E-04	*3.06E-02*	0.00062301	0.66053796	0.66116097	0.33014866	0.00869038
	Arsenic	351.196448	0.01390588	0.00021902	2.2175	5.14	9.3629E-06	0.115864375	0.115873738	0.079722	0.000681388	1.96E-01	1.82E-06	2.25E-02	1.55E-02	1.33E-04	*3.82E-02*	4.7703E-05	0.59031135	0.59035905	0.40616938	0.00347157
	Barium	62.8800546	0.03672059	0.00066242	10.1813	208.00	2.8319E-05	0.531970313	0.531998631	0.014274	0.001799309	5.48E-01	1.36E-07	2.56E-03	6.86E-05	8.65E-06	*2.63E-03*	5.167E-05	0.97062173	0.9706734	0.02604362	0.00328298
	Beryllium	0.6776424	5.1412E-05	5.3877E-06	0.0054	0.66	2.3032E-07	0.00028052	0.00028075	0.000154	2.51918E-06	4.37E-04	3.49E-07	4.25E-04	2.33E-04	3.82E-06	*6.62E-04*	0.00052694	0.6417835	0.64231045	0.35192608	0.00576347
	Cadmium	6.392571	0.00029629	2.8078E-05	0.0701	1.45	1.2003E-06	0.003661231	0.003662431	0.001451	1.45184E-05	5.13E-03	8.28E-07	2.52E-03	1.00E-03	1.00E-05	*3.54E-03*	0.00023407	0.71395976	0.71419383	0.282975	0.00283117
	Chromium	617.017213	0.01258941	0.00034424	1.1325	1.00	1.4716E-05	0.059173125	0.059187841	0.140063	0.000616881	2.00E-01	1.47E-05	5.92E-02	1.40E-01	6.17E-04	*2.00E-01*	7.3631E-05	0.29606157	0.2961352	0.70077835	0.00308645
	Cobalt	15.5862842	0.000905	4.7197E-05	0.4388	5.00	2.0177E-06	0.022924688	0.022926705	0.003538	4.4345E-05	2.65E-02	4.04E-07	4.58E-03	7.08E-04	8.87E-06	*5.30E-03*	7.6112E-05	0.86478439	0.8648605	0.13346668	0.00167282
	Copper	415.268306	0.01178529	0.0008903	49.6688	47.00	3.806E-05	2.595192188	2.595230248	0.094266	0.000577479	2.69E+00	8.10E-07	5.52E-02	2.01E-03	1.23E-05	*5.72E-02*	1.4148E-05	0.96472905	0.9647432	0.03504213	0.00021467
	Cyanide	1.1638	0.0025	0.00024348	0.2394	68.70	1.0409E-05	0.012507344	0.012517753	0.000264	0.0001225	1.29E-02	1.52E-07	1.82E-04	3.85E-06	1.78E-06	*1.88E-04*	0.00080662	0.96922829	0.97003491	0.02047223	0.00949286
X	Iron	29402.5956	1.56129412	0.05218939	345.0313	3.19	0.0022311	18.02788281	18.03011391	6.674389	0.076503412	2.48E+01	6.99E-04	5.65E+00	2.09E+00	2.40E-02	*7.77E+00*	9.0033E-05	0.72748792	0.72757795	0.26933487	0.00308718
	Lead	272.036339	0.00738706	0.00012921	0.7778	1.13	5.5238E-06	0.040640703	0.040646227	0.061752	0.000361966	1.03E-01	4.89E-06	3.60E-02	5.46E-02	3.20E-04	*9.09E-02*	5.3754E-05	0.39548977	0.39554352	0.60093405	0.00352242
	Manganese	484.939344	0.4224	0.00684848	98.9250	977.00	0.00029277	5.16883125	5.169124023	0.110081	0.0206976	5.30E+00	3.00E-07	5.29E-03	1.13E-04	2.12E-05	*5.42E-03*	5.5241E-05	0.97526906	0.9753243	0.02077042	0.00390528
	Mercury	2.9862083	0.00014506	2.1167E-05	0.0092	0.01	9.0488E-07	0.000480047	0.000480952	0.000678	7.10788E-06	1.17E-03	1.41E-04	7.50E-02	1.06E-01	1.11E-03	*1.82E-01*	0.0007761	0.41172911	0.41250521	0.58139847	0.00609632
	Nickel	19.4810929	0.00207	2.4121E-05	0.0846	77.40	1.0312E-06	0.004418391	0.004419422	0.004422	0.00010143	8.94E-03	1.33E-08	5.71E-05	5.71E-05	1.31E-06	*1.16E-04*	0.00011531	0.49405804	0.49417334	0.4944849	0.01134176
	Selenium	3.3413128	0.00079412	0.00071394	0.4069	0.40	3.0521E-05	0.021259219	0.02128974	0.000758	3.89118E-05	2.21E-02	7.63E-05	5.31E-02	1.90E-03	9.73E-05	*5.52E-02*	0.00138184	0.96251615	0.96389799	0.03434027	0.00176174
	Silver	0.6066118	0.00032235	1.9424E-05	0.0323	181.20	8.3038E-07	0.001688328	0.001689159	0.000138	1.57953E-05	1.84E-03	4.58E-09	9.32E-06	7.60E-07	8.72E-08	*1.02E-05*	0.00045065	0.91624771	0.91669835	0.07472962	0.00857203
	Thallium	1.4004242	0.00082059	6.9849E-05	0.0825	0.07	2.986E-06	0.004310625	0.004313611	0.000318	4.02088E-05	4.67E-03	4.04E-05	5.83E-02	4.30E-03	5.43E-04	*6.31E-02*	0.00063917	0.92270696	0.92334613	0.06804701	0.00860686
	Vanadium	38.7240437	0.00138162	9.0605E-05	0.1467	11.40	3.8734E-06	0.007665822	0.007669696	0.008790	6.76993E-05	1.65E-02	3.40E-07	6.72E-04	7.71E-04	5.94E-06	*1.45E-03*	0.00023436	0.46381515	0.46404951	0.53185439	0.0040961
	Zinc	1236.41421	0.07170294	0.02648788	25.3938	14.50	0.00113236	1.326823438	1.327955794	0.280666	0.003513444	1.61E+00	7.81E-05	9.15E-02	1.94E-02	2.42E-04	*1.11E-01*	0.0007024	0.8230224	0.8237248	0.17409583	0.00217937

Table E.1-48. Maximum Exposure Calculations for Heron (Site-Wide)

	Maximum Concentrations Compound	$C_{Sediment}$ (mg/Kg) 95% UCLs	C_{Water} (mg/L)	C_{Fish} (mg/Kg)	$C_{Crayfish}$ (mg/Kg)	TRV mg/Kg day	DOSE fish	DOSE crayfish	DOSE prey (f+cf)	DOSE soil/ sediment	DOSE water	Total Dose	HQ fish	HQ crayfish	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ fish	% HQ crayfish	% HQ prey (f + cf)	% HQ soil/ sediment	% HQ water
	Volatile Organics																					
	2-Butanone	0.13199953	0			12.10	0	0	0	0.000030	0	3.00E-05	0.00E+00	0.00E+00	2.48E-06	0.00E+00	*2.48E-06*	0	0	0	1	0
	Acetone	1.34766523	0			1700.00	0	0	0	0.000306	0	3.06E-04	0.00E+00	0.00E+00	1.80E-07	0.00E+00	*1.80E-07*	0	0	0	1	0
	cis-1,2-Dichloroethene	0.19900136	0.00203555			3114.00	0	0	0	0.000045	9.97421E-05	1.45E-04	0.00E+00	0.00E+00	1.45E-08	3.20E-08	*4.65E-08*	0	0	0	0.31172191	0.68827809
	Tetrachloroethene	0.041	0.0007581			14.00	0	0	0	0.000009	3.71468E-05	4.65E-05	0.00E+00	0.00E+00	6.65E-07	2.65E-06	*3.32E-06*	0	0	0	0.20034949	0.79965051
	Trichloroethene	0.2801847	0.00091204			7.00	0	0	0	0.000064	4.46901E-05	1.08E-04	0.00E+00	0.00E+00	9.09E-06	6.38E-06	*1.55E-05*	0	0	0	0.58731868	0.41268132
	Semivolatile Organics																					
	2-Methylnaphthalene	0.22	0			143.70	0	0	0	0.000050	0	4.99E-05	0.00E+00	0.00E+00	3.48E-07	0.00E+00	*3.48E-07*	0	0	0	1	0
	Acenaphthylene	0.36064151	0			133.30	0	0	0	0.000082	0	8.19E-05	0.00E+00	0.00E+00	6.14E-07	0.00E+00	*6.14E-07*	0	0	0	1	0
	Anthracene	0.39671518	0			1000.00	0	0	0	0.000090	0	9.01E-05	0.00E+00	0.00E+00	9.01E-08	0.00E+00	*9.01E-08*	0	0	0	1	0
	Benzo(a)anthracene	2.12185445	0			1.30	0	0	0	0.000482	0	4.82E-04	0.00E+00	0.00E+00	3.71E-04	0.00E+00	*3.71E-04*	0	0	0	1	0
	Benzo(a)pyrene	1.19792879	0			1.30	0	0	0	0.000272	0	2.72E-04	0.00E+00	0.00E+00	2.09E-04	0.00E+00	*2.09E-04*	0	0	0	1	0
	Benzo(b)fluoranthene	2.11037782	0			1.30	0	0	0	0.000479	0	4.79E-04	0.00E+00	0.00E+00	3.69E-04	0.00E+00	*3.69E-04*	0	0	0	1	0
	Benzo(g,h,i)perylene	0.99883174	0			133.30	0	0	0	0.000227	0	2.27E-04	0.00E+00	0.00E+00	1.70E-06	0.00E+00	*1.70E-06*	0	0	0	1	0
	Benzo(k)fluoranthene	2.81180399	0			1.30	0	0	0	0.000638	0	6.38E-04	0.00E+00	0.00E+00	4.91E-04	0.00E+00	*4.91E-04*	0	0	0	1	0
	Carbazole	0.32907677	0			133.30	0	0	0	0.000075	0	7.47E-05	0.00E+00	0.00E+00	5.60E-07	0.00E+00	*5.60E-07*	0	0	0	1	0
	Chrysene	1.41911092	0			1.30	0	0	0	0.000322	0	3.22E-04	0.00E+00	0.00E+00	2.48E-04	0.00E+00	*2.48E-04*	0	0	0	1	0
	Dibenz(a,h)anthracene	0.43326051	0			1.30	0	0	0	0.000098	0	9.84E-05	0.00E+00	0.00E+00	7.57E-05	0.00E+00	*7.57E-05*	0	0	0	1	0
	Dibenzofuran	0.3953307	0			133.30	0	0	0	0.000090	0	8.97E-05	0.00E+00	0.00E+00	6.73E-07	0.00E+00	*6.73E-07*	0	0	0	1	0
	Fluoranthene	4.65420739	0			125.00	0	0	0	0.001057	0	1.06E-03	0.00E+00	0.00E+00	8.45E-06	0.00E+00	*8.45E-06*	0	0	0	1	0
	Fluorene	0.30940499	0			125.00	0	0	0	0.000070	0	7.02E-05	0.00E+00	0.00E+00	5.62E-07	0.00E+00	*5.62E-07*	0	0	0	1	0
	Indeno(1,2,3-cd)pyrene	1.36387149	0			1.30	0	0	0	0.000310	0	3.10E-04	0.00E+00	0.00E+00	2.38E-04	0.00E+00	*2.38E-04*	0	0	0	1	0
	Naphthalene	0.56139673	0.00264666			140.00	0	0	0	0.000127	0.000129686	2.57E-04	0.00E+00	0.00E+00	9.10E-07	9.26E-07	*1.84E-06*	0	0	0	0.49562594	0.50437406
	N-nitrosodiphenylamine	0.40944242	0			150.00	0	0	0	0.000093	0	9.29E-05	0.00E+00	0.00E+00	6.20E-07	0.00E+00	*6.20E-07*	0	0	0	1	0
	Phenanthrene	2.29008589	0			133.30	0	0	0	0.000520	0	5.20E-04	0.00E+00	0.00E+00	3.90E-06	0.00E+00	*3.90E-06*	0	0	0	1	0
	Pyrene	3.52213243	0			133.30	0	0	0	0.000800	0	8.00E-04	0.00E+00	0.00E+00	6.00E-06	0.00E+00	*6.00E-06*	0	0	0	1	0
	Pesticides and PCBs																					
	4,4'-DDD	0.06371535	0	0.02711635	0.003	8.50	0.00115922	0.000173879	0.001333103	0.000014	0	1.35E-03	1.36E-04	2.05E-05	1.70E-06	0.00E+00	*1.59E-04*	0.86023498	0.12903206	0.98926703	0.01073297	0
	4,4-DDE	0.03422882	0	0.03373773	0.007	1.90	0.00144229	0.000358231	0.001800519	0.000008	0	1.81E-03	7.59E-04	1.89E-04	4.09E-06	0.00E+00	*9.52E-04*	0.79759815	0.198105	0.99570315	0.00429685	0
	4,4'-DDT	0.01268788	0	0.00615005	0.001	0.00	0.00026291	7.81307E-05	0.000341045	0.000003	0	3.44E-04	9.39E-02	2.79E-02	1.03E-03	0.00E+00	*1.23E-01*	0.76445233	0.22717333	0.99162566	0.00837434	0
	Aldrin	0.00340574	0	0.00204913	0.000	0.20	8.76E-05	1.61975E-05	0.000103798	0.000001	0	1.05E-04	4.38E-04	8.10E-05	3.87E-06	0.00E+00	*5.23E-04*	0.83771228	0.15489464	0.99260691	0.00739309	0
	alpha-Chlordane	0.0263503	2.9525E-05	0.02118896	0.001	2.14	0.00090583	6.45126E-05	0.000970341	0.000006	1.44671E-06	9.78E-04	4.23E-04	3.01E-05	2.80E-06	6.76E-07	*4.57E-04*	0.92642348	0.06597941	0.99240288	0.00611752	0.0014796
	Aroclor 1248	0.10448029	0	0.02720586	0.003	0.98	0.00116305	0.000151196	0.001314247	0.000024	0	1.34E-03	1.19E-03	1.54E-04	2.42E-05	0.00E+00	*1.37E-03*	0.86926908	0.11300472	0.98227379	0.01772621	0
	Aroclor 1254	0.03897204	0	0.10057466	0.020	1.50	0.00429957	0.001065188	0.005364754	0.000009	0	5.37E-03	2.87E-03	7.10E-04	5.90E-06	0.00E+00	*3.58E-03*	0.8001276	0.19822608	0.99835368	0.00164632	0
	Aroclor 1260	0.11129463	0	0.07422077	0.034	0.35	0.00317294	0.001758988	0.004931926	0.000025	0	4.96E-03	9.20E-03	5.10E-03	7.32E-05	0.00E+00	*1.44E-02*	0.64006785	0.35483574	0.99490359	0.00509641	0
	beta-BHC	0.00250441	0	0.00157136	0.000	4.00	6.7176E-05	1.62735E-05	8.34493E-05	0.000001	0	8.40E-05	1.68E-05	4.07E-06	1.42E-07	0.00E+00	*2.10E-05*	0.79954219	0.19369138	0.99323357	0.00676643	0
	delta-BHC	0.00501775	0	0.00187309	0.000	1.60	8.0075E-05	1.53346E-05	9.54091E-05	0.000001	0	9.65E-05	5.00E-05	9.58E-06	7.12E-07	0.00E+00	*6.03E-05*	0.82937425	0.15882824	0.98820248	0.01179752	0
	Endosulfan I	0.01453662	0	0.00199227	0.001	10.00	8.5169E-05	2.63851E-05	0.000111555	0.000003	0	1.15E-04	8.52E-06	2.64E-06	3.30E-07	0.00E+00	*1.15E-05*	0.74154271	0.22972688	0.97126959	0.02873041	0
	Endosulfan Sulfate	0.0021	0	0.0030639	0.001	10.00	0.00013098	5.17663E-05	0.000182748	0.000000	0	1.83E-04	1.31E-05	5.18E-06	4.77E-08	0.00E+00	*1.83E-05*	0.71486911	0.28252917	0.99739828	0.00260172	0
	Endrin Aldehyde	0.00444776	0	0.00319803	0.003	0.30	0.00013672	0.00014244	0.000279155	0.000001	0	2.80E-04	4.56E-04	4.75E-04	3.37E-06	0.00E+00	*9.34E-04*	0.48798298	0.50841328	0.99639626	0.00360374	0
	gamma-Chlordane	0.07267792	2.9663E-05	0.01295431	0.001	2.14	0.0005538	2.94061E-05	0.000583203	0.000016	1.45348E-06	6.01E-04	2.59E-04	1.37E-05	7.71E-06	6.79E-07	*2.81E-04*	0.92122237	0.04891612	0.97013849	0.02744369	0.00241782
	Inorganics																					
	Aluminum	11277.1827	0.47143228	10.9110181	59.189	109.70	0.46644603	3.092645165	3.559091191	2.559920	0.023100182	6.14E+00	4.25E-03	2.82E-02	2.33E-02	2.11E-04	*5.60E-02*	0.07594229	0.50351495	0.57945724	0.41678181	0.00376095
	Antimony	11.4225151	0.00079563	0.06128682	0.052	0.13	0.00262001	0.002694865	0.005314877	0.002593	3.89859E-05	7.95E-03	2.10E-02	2.16E-02	2.07E-02	3.12E-04	*6.36E-02*	0.32969498	0.33911441	0.66880939	0.32628473	0.00490588
	Arsenic	521.874363	0.02171354	0.43486862	3.089	5.14	0.01859063	0.161399705	0.179990338	0.118465	0.001063963	3.00E-01	3.62E-03	3.14E-02	2.30E-02	2.07E-04	*5.83E-02*	0.06206813	0.53886159	0.60092972	0.39551805	0.00355223
	Barium	69.1710628	0.03973851	0.77542493	13.254	208.00	0.03314942	0.692502294	0.72565171	0.015702	0.001947187	7.43E-01	1.59E-04	3.33E-03	7.55E-05	9.36E-06	*3.57E-03*	0.04459758	0.9316583	0.97625588	0.02112447	0.00261965
	Beryllium	0.75308694	9.3352E-05	0.00573614	0.006	0.66	0.00024522	0.000321642	0.000566861	0.000171	4.57426E-06	7.42E-04	3.72E-04	4.87E-04	2.59E-04	6.93E-06	*1.12E-03*	0.33031298	0.43325353	0.76356651	0.23027192	0.00616157
	Cadmium	7.44720561	0.00176552	0.03286365	0.100	1.45	0.00140492	0.005212321	0.006617242	0.001691	8.65105E-05	8.39E-03	9.69E-04	3.59E-03	1.17E-03	5.97E-05	*5.79E-03*	0.16736672	0.6209381	0.78830482	0.20138928	0.0103059
	Chromium	1081.45223	0.02016543	0.37920972	1.625	1.00	0.01621122	0.084907404	0.10111862	0.245490	0.000988106	3.48E-01	1.62E-02	8.49E-02	2.45E-01	9.88E-04	*3.48E-01*	0.04663804	0.2442701	0.29090815	0.70624917	0.00284268
	Cobalt	18.1581279	0.00137363	0.06863311	0.535	5.00	0.00293407	0.027970345	0.03090441	0.004122	6.73079E-05	3.51E-02	5.87E-04	5.59E-03	8.24E-04	1.35E-05	*7.02E-03*	0.08360682	0.79702095	0.88062777	0.11745428	0.00191795
	Copper	672.918264	0.03907888	0.98308254	57.401	47.00	0.04202678	2.999214082	3.041240861	0.152752	0.001914865	3.20E+00	8.94E-04	6.38E-02	3.25E-03	4.07E-05	*6.80E-02*	0.01315018	0.9384544	0.95160458	0.04779626	0.00059916
	Cyanide	2.35947639	0	0.25216411	0.261	68.70	0.01078002	0.013643123	0.024423138	0.000536	0	2.50E-02	1.57E-04	1.99E-04	7.80E-06	0.00E+00	*3.63E-04*	0.43191346	0.54662707	0.97854054	0.02145946	0
X	Iron	40710.0693	2.32642302	86.5828071	463.364	3.19	3.70141501	24.21075697	27.91217197	9.241186	0.113994728	3.73E+01	1.16E+00	7.59E+00	2.90E+00	3.57E-02	*1.17E+01*	0.09932058	0.64965058	0.74897115	0.24797001	0.00305884
	Lead	310.232891	0.0163928	0.24554727	1.051	1.13	0.01049715	0.054908408	0.065405553	0.070423	0.000803247	1.37E-01	9.29E-03	4.86E-02	6.23E-02	7.11E-04	*1.21E-01*	0.07682806	0.40187175	0.47869981	0.51542126	0.00587893
	Manganese	602.6482	0.50794141	8.40387704	121.832	977.00	0.35926574	6.365737821	6.725003565	0.136801	0.024889129	6.89E+00	3.68E-04	6.52E-03	1.40E-04	2.55E-05	*7.05E-03*	0.0521681	0.92435325	0.97652135	0.01986456	0.00361409
	Mercury	4.96621992	0.00035585	0.02519289	0.012	0.01	0.001077	0.000640415	0.001717411	0.001127	1.74367E-05	2.86E-03	1.68E-01	1.00E-01	1.76E-01	2.72E-03	*4.47E-01*	0.37628533	0.22375072	0.60003605	0.39387183	0.00609212
	Nickel	23.3426302	0.00256696	0.02526384	0.103	77.40	0.00108003	0.005366846	0.006446875	0.005299	0.000125781	1.19E-02	1.40E-05	6.93E-05	6.85E-05	1.63E-06	*1.53E-04*	0.09097716	0.45208069	0.54305785	0.44634686	0.01059529
	Selenium	5.40511745	0.00082395	0.74942279	0.478	0.40	0.03203782	0.024964257	0.057002081	0.001227	4.03735E-05	5.83E-02	8.01E-02	6.24E-02	3.07E-03	1.01E-04	*1.46E-01*	0.54982229	0.42842813	0.97825042	0.0210567	0.00069288
	Silver	1.19799524	0.00035684	0.02063055	0.047	181.20	0.00088196	0.002460942	0.003342898	0.000272	1.74849E-05	3.63E-03	4.87E-06	1.36E-05	1.50E-06	9.65E-08	*2.00E-05*	0.24280733	0.67751103	0.92031836	0.07486794	0.0048137
	Thallium	2.54573269	0.00084048	0.0717092	0.112	0.07	0.00306557	0.005847618	0.008913186	0.000578	4.11833E-05	9.53E-03	4.14E-02	7.90E-02	7.81E-03	5.57E-04	*1.29E-01*	0.32159962	0.61345615	0.93505577	0.06062381	0.00432042
	Vanadium	47.7981783	0.00199374	0.10717686	0.187	11.40	0.00458181	0.009794601	0.014376412	0.010850	9.76934E-05	2.53E-02	4.02E-04	8.59E-04	9.52E-04	8.57E-06	*2.22E-03*	0.18092552	0.38676704	0.56769256	0.42844975	0.0038577
	Zinc	1411.70234	0.42024573	27.8620987	27.874	14.50	1.19110472	1.456394999	2.64749972	0.320456	0.020592041	2.99E+00	8.21E-02	1.00E-01	2.21E-02	1.42E-03	*2.06E-01*	0.3985563	0.48732525	0.88588156	0.10722813	0.00689032

	Mean Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Fish (mg/Kg)	C Crayfish (mg/Kg)	TRV mg/Kg day	DOSE fish	DOSE crayfish	DOSE prey (f+cf)	DOSE soil/ sediment	DOSE water	Total Dose	HQ fish	HQ crayfish	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ fish	% HQ crayfish	% HQ prey (f + cf)	% HQ soil/ sediment	% HQ water
	Volatile Organics																					
	2-Butanone	0.051262	0.00183333			12.1	0	0	0	1.1636E-05	8.98333E-05	1.01E-04	0.00E+00	0.00E+00	9.62E-07	7.42E-06	*8.39E-06*	0	0	0	0.11467899	0.88532101
	Acetone	0.174273	0.0025			1700	0	0	0	3.956E-05	0.0001225	1.62E-04	0.00E+00	0.00E+00	2.33E-08	7.21E-08	*9.53E-08*	0	0	0	0.2441067	0.7558933
	cis-1,2-Dichloroethene	0.009889	0.00072222			3114	0	0	0	2.2448E-06	3.53889E-05	3.76E-05	0.00E+00	0.00E+00	7.21E-10	1.14E-08	*1.21E-08*	0	0	0	0.05964813	0.94035187
	Tetrachloroethene	0.009957	0.00072222			14	0	0	0	2.2601E-06	3.53889E-05	3.76E-05	0.00E+00	0.00E+00	1.61E-07	2.53E-06	*2.69E-06*	0	0	0	0.06003159	0.93996841
	Trichloroethene	0.008435	0.00072222			7	0	0	0	1.9147E-06	3.53889E-05	3.73E-05	0.00E+00	0.00E+00	2.74E-07	5.06E-06	*5.33E-06*	0	0	0	0.05132739	0.94867261
	Semivolatile Organics																					
	2-Methylnaphthalene	0.267	0.00238889			143.7	0	0	0	0.000061	0.000117056	1.78E-04	0.00E+00	0.00E+00	4.22E-07	8.15E-07	*1.24E-06*	0	0	0	0.34114289	0.65885711
	Acenaphthylene	0.305292	0.00238889			133.3	0	0	0	0.000069	0.000117056	1.86E-04	0.00E+00	0.00E+00	5.20E-07	8.78E-07	*1.40E-06*	0	0	0	0.37187385	0.62812615
	Anthracene	0.413583	0.00238889			1000	0	0	0	0.000094	0.000117056	2.11E-04	0.00E+00	0.00E+00	9.39E-08	1.17E-07	*2.11E-07*	0	0	0	0.44507383	0.55492617
	Benzo(a)anthracene	1.151667	0.00238889			1.3	0	0	0	0.000261	0.000117056	3.78E-04	0.00E+00	0.00E+00	2.01E-04	9.00E-05	*2.91E-04*	0	0	0	0.69072513	0.30927487
	Benzo(a)pyrene	1.065	0.00238889			1.3	0	0	0	0.000242	0.000117056	3.59E-04	0.00E+00	0.00E+00	1.86E-04	9.00E-05	*2.76E-04*	0	0	0	0.6737678	0.3262322
	Benzo(b)fluoranthene	1.450417	0.00238889			1.3	0	0	0	0.000329	0.000117056	4.46E-04	0.00E+00	0.00E+00	2.53E-04	9.00E-05	*3.43E-04*	0	0	0	0.7377201	0.2622799
	Benzo(g,h,i)perylene	0.474792	0.00238889			133.3	0	0	0	0.000108	0.000117056	2.25E-04	0.00E+00	0.00E+00	8.09E-07	8.78E-07	*1.69E-06*	0	0	0	0.47936727	0.52063273
	Benzo(k)fluoranthene	1.397292	0.00238889			1.3	0	0	0	0.000317	0.000117056	4.34E-04	0.00E+00	0.00E+00	2.44E-04	9.00E-05	*3.34E-04*	0	0	0	0.73043628	0.26956372
	Carbazole	0.331727	0.00225			133.3	0	0	0	0.000075	0.00011025	1.86E-04	0.00E+00	0.00E+00	5.65E-07	8.27E-07	*1.39E-06*	0	0	0	0.40582723	0.59417277
	Chrysene	1.31375	0.00238889			1.3	0	0	0	0.000298	0.000117056	4.15E-04	0.00E+00	0.00E+00	2.29E-04	9.00E-05	*3.19E-04*	0	0	0	0.71812643	0.28187357
	Dibenz(a,h)anthracene	0.283333	0.00238889			1.3	0	0	0	0.000064	0.000117056	1.81E-04	0.00E+00	0.00E+00	4.95E-05	9.00E-05	*1.40E-04*	0	0	0	0.35461145	0.64538855
	Dibenzofuran	0.322727	0.00238889			133.3	0	0	0	0.000073	0.000117056	1.90E-04	0.00E+00	0.00E+00	5.50E-07	8.78E-07	*1.43E-06*	0	0	0	0.38493669	0.61506331
	Fluoranthene	2.483792	0.00238889			125	0	0	0	0.000564	0.000117056	6.81E-04	0.00E+00	0.00E+00	4.51E-06	9.36E-07	*5.45E-06*	0	0	0	0.82808102	0.17191898
	Fluorene	0.393542	0.00238889			125	0	0	0	0.000089	0.000117056	2.06E-04	0.00E+00	0.00E+00	7.15E-07	9.36E-07	*1.65E-06*	0	0	0	0.43284155	0.56715845
	Indeno(1,2,3-cd)pyrene	0.634375	0.00238889			1.3	0	0	0	0.000144	0.000117056	2.61E-04	0.00E+00	0.00E+00	1.11E-04	9.00E-05	*2.01E-04*	0	0	0	0.55161209	0.44838791
	Naphthalene	0.280417	0.00238889			140	0	0	0	0.000064	0.000117056	1.81E-04	0.00E+00	0.00E+00	4.55E-07	8.36E-07	*1.29E-06*	0	0	0	0.35224715	0.64775285
	N-nitrosodiphenylamine	0.331591	0.00238889			150	0	0	0	0.000075	0.000117056	1.92E-04	0.00E+00	0.00E+00	5.02E-07	7.80E-07	*1.28E-06*	0	0	0	0.39137124	0.60862876
	Phenanthrene	1.517083	0.00238889			133.3	0	0	0	0.000344	0.000117056	4.61E-04	0.00E+00	0.00E+00	2.58E-06	8.78E-07	*3.46E-06*	0	0	0	0.74632192	0.25367808
	Pyrene	1.975667	0.00238889			133.3	0	0	0	0.000448	0.000117056	5.66E-04	0.00E+00	0.00E+00	3.36E-06	8.78E-07	*4.24E-06*	0	0	0	0.79301688	0.20698312
	Pesticides and PCBs																					
	4,4'-DDD	0.047775	2.9811E-05	0.00196	0.0008	8.50	0.00008379	4.10163E-05	0.000124806	0.000011	1.46074E-06	1.37E-04	9.86E-06	4.83E-06	1.28E-06	1.72E-07	*1.61E-05*	0.61110661	0.29914431	0.91025092	0.07909542	0.01065366
	4,4'-DDE	0.030514	2.9811E-05	0.01328333	0.0047	1.90	0.00056786	0.000242963	0.000810825	0.000007	1.46074E-06	8.19E-04	2.99E-04	1.28E-04	3.65E-06	7.69E-07	*4.31E-04*	0.69318098	0.29658057	0.98976156	0.00845534	0.00178311
	4,4'-DDT	0.022802	2.9811E-05	0.00148833	0.0005	0.00	6.3626E-05	2.56025E-05	8.92287E-05	0.000005	1.46074E-06	9.59E-05	2.27E-02	9.14E-03	1.85E-03	5.22E-04	*3.42E-02*	0.6637035	0.26706696	0.93077046	0.0539921	0.01523744
	Aldrin	0.002902	1.5922E-05	0.00066417	0.0003	0.20	2.8393E-05	1.31931E-05	4.15863E-05	0.000001	7.80188E-07	4.30E-05	1.42E-04	6.60E-05	3.29E-06	3.90E-06	*2.15E-04*	0.65991906	0.30663741	0.96655647	0.01531024	0.01813329
	alpha-Chlordane	0.004223	1.5922E-05	0.0008	0.0003	2.14	0.0000342	1.31931E-05	4.73931E-05	0.000001	7.80188E-07	4.91E-05	1.60E-05	6.17E-06	4.48E-07	3.65E-07	*2.30E-05*	0.69608455	0.26852428	0.96460884	0.01951173	0.01587944
	Aroclor 1248	0.069781	0.000288	0.00653333	0.0025	0.98	0.0002793	0.000130625	0.000409925	0.000016	0.000014112	4.40E-04	2.85E-04	1.33E-04	1.62E-05	1.44E-05	*4.49E-04*	0.63494973	0.29695778	0.93190751	0.03601082	0.03208167
	Aroclor 1254	0.055498	0.000288	0.00653333	0.0025	1.50	0.0002793	0.000130625	0.000409925	0.000013	0.000014112	4.37E-04	1.86E-04	8.71E-05	8.40E-06	9.41E-06	*2.91E-04*	0.63966467	0.2991629	0.93882757	0.02885253	0.0323199
	Aroclor 1260	0.065656	0.000288	0.01931667	0.0052	0.35	0.00082579	0.000269088	0.001094875	0.000015	0.000014112	1.12E-03	2.39E-03	7.80E-04	4.32E-05	4.09E-05	*3.26E-03*	0.73475766	0.23942491	0.97418258	0.01326105	0.01255638
	beta-BHC	0.002876	1.5922E-05	0.00066417	0.0003	4.00	2.8393E-05	1.31931E-05	4.15863E-05	0.000001	7.80188E-07	4.30E-05	7.10E-06	3.30E-06	1.63E-07	1.95E-07	*1.08E-05*	0.66001047	0.30667988	0.96669035	0.01517385	0.0181358
	delta-BHC	0.002942	1.5922E-05	0.00066417	0.0003	1.60	2.8393E-05	1.31931E-05	4.15863E-05	0.000001	7.80188E-07	4.30E-05	1.77E-05	8.25E-06	4.17E-07	4.88E-07	*2.69E-05*	0.65977837	0.30657203	0.96635041	0.01552017	0.01812942
	Endosulfan I	0.006814	1.5922E-05	0.00072833	0.0003	10.00	3.1136E-05	1.31931E-05	4.43294E-05	0.000002	7.80188E-07	4.67E-05	3.11E-06	1.32E-06	1.55E-07	7.80E-08	*4.67E-06*	0.66735315	0.28277246	0.9501256	0.03315238	0.01672201
	Endosulfan Sulfate	0.005608	2.9811E-05	0.00129667	0.0005	10.00	5.5433E-05	2.56025E-05	8.1035E-05	0.000001	1.46074E-06	8.38E-05	5.54E-06	2.56E-06	1.27E-07	1.46E-07	*8.38E-06*	0.66173327	0.30563344	0.96736671	0.01519545	0.01743784
	Endrin Aldehyde	0.007058	2.9811E-05	0.00129667	0.0005	0.30	5.5433E-05	2.56025E-05	8.1035E-05	0.000002	1.46074E-06	8.41E-05	1.85E-04	8.53E-05	5.34E-06	4.87E-06	*2.80E-04*	0.65914332	0.30443722	0.96358054	0.01904987	0.01736959
	gamma-Chlordane	0.003073	1.3333E-05	0.00064583	0.0003	2.14	2.7609E-05	1.31931E-05	4.08025E-05	0.000001	6.53332E-07	4.22E-05	1.29E-05	6.17E-06	3.26E-07	3.05E-07	*1.97E-05*	0.65497483	0.31297939	0.96795422	0.01654685	0.01549893
	Inorganics																					
	Aluminum	7851.8	0.35131111	2.35	9.7500	109.70	0.1004625	0.5094375	0.6099	1.782359	0.017214244	2.41E+00	9.16E-04	4.64E-03	1.62E-02	1.57E-04	*2.20E-02*	0.0416948	0.2114311	0.25312591	0.73972969	0.0071444
	Antimony	0.9958	0.00437222	0.0513333	0.0480	0.13	0.0021945	0.002508	0.004702499	0.000226	0.000214239	5.14E-03	1.76E-02	2.01E-02	1.81E-03	1.71E-03	*4.11E-02*	0.42671412	0.4876736	0.91438772	0.04395413	0.04165815
	Arsenic	15.85	0.0031	0.049	0.1925	5.14	0.00209475	0.010058125	0.012152875	0.003598	0.0001519	1.59E-02	4.08E-04	1.96E-03	7.00E-04	2.96E-05	*3.09E-03*	0.13172271	0.63247808	0.76420079	0.22624739	0.00955182
	Barium	51.744	0.03224444	2.0833333	15.4000	208.00	0.0890625	0.80465	0.893712499	0.011746	0.001579978	9.07E-01	4.28E-04	3.87E-03	5.65E-05	7.60E-06	*4.36E-03*	0.09819044	0.88711793	0.98530838	0.01294971	0.00174191
	Beryllium	0.5106	0.0000765	0.0051083	0.0044	0.66	0	0.000229769	0.000229769	0.000116	3.7485E-06	3.49E-04	0.00E+00	3.48E-04	1.76E-04	5.68E-06	*5.29E-04*	0	0.65756595	0.65756595	0.33170639	0.01072765
	Cadmium	1.17314	0.000215	0.0121667	0.0800	1.45	0.00052013	0.00418	0.004700126	0.000266	0.000010535	4.98E-03	3.59E-04	2.88E-03	1.84E-04	7.27E-06	*3.43E-03*	0.10450677	0.83986943	0.94437619	0.05350705	0.00211675
	Chromium	91.164	0.00221556	0.2616667	0.1800	1.00	0.01118625	0.009405	0.020591251	0.020694	0.000108562	4.14E-02	1.12E-02	9.41E-03	2.07E-02	1.09E-04	*4.14E-02*	0.2702382	0.22720661	0.49744482	0.49993253	0.00262265
	Cobalt	7.9364	0.00142778	0.0343333	0.4200	5.00	0.00146775	0.021945	0.023412749	0.001802	6.99611E-05	2.53E-02	2.94E-04	4.39E-03	3.60E-04	1.40E-05	*5.06E-03*	0.05804986	0.86793085	0.92598071	0.07125231	0.00276698
	Copper	59.638	0.00285833	0.3416667	20.1000	47.00	0.01460625	1.050225	1.064831251	0.013538	0.000140058	1.08E+00	3.11E-04	2.23E-02	2.88E-04	2.98E-06	*2.29E-02*	0.013543	0.97377478	0.98731779	0.01255235	0.00012986
	Cyanide	0.394285	0.0025	0.2283333	0.2175	68.70	0.00976125	0.011364375	0.021125624	0.000090	0.0001225	2.13E-02	1.42E-04	1.65E-04	1.30E-06	1.78E-06	*3.11E-04*	0.45746647	0.5325979	0.99006437	0.0041946	0.00574103
X	Iron	15732.8	2.87833333	35.3166667	66.3500	3.19	1.5097875	3.4667875	4.976575001	3.571346	0.141038333	8.69E+00	4.73E-01	1.09E+00	1.12E+00	4.42E-02	*2.72E+00*	0.17375931	0.39898767	0.57274698	0.41102112	0.0162319
	Lead	192.668	0.00780444	0.0345	0.0333	1.13	0.00147488	0.001737313	0.003212188	0.043736	0.000382418	4.73E-02	1.31E-03	1.54E-03	3.87E-02	3.38E-04	*4.19E-02*	0.03116137	0.03670618	0.06786755	0.92405267	0.00807978
	Manganese	365.708	0.48626667	12.65	106.0000	977.00	0.5407875	5.5385	6.0792875	0.083016	0.023827067	6.19E+00	5.54E-04	5.67E-03	8.50E-05	2.44E-05	*6.33E-03*	0.08741935	0.8953093	0.98272866	0.01341965	0.00385169
	Mercury	0.191969	6.6167E-05	0.05875	0.0055	0.01	0.00251156	0.000287375	0.002798938	0.000044	3.24217E-06	2.85E-03	3.92E-01	4.49E-02	6.81E-03	5.07E-04	*4.45E-01*	0.88256406	0.10098369	0.98354775	0.01531295	0.0011393
	Nickel	14.024	0.00153222	0.023	0.1600	77.40	0	0.00836	0.00836	0.003183	7.50789E-05	1.16E-02	0.00E+00	1.08E-04	4.11E-05	9.70E-07	*1.50E-04*	0	0.71954044	0.71954044	0.27399756	0.006462
	Selenium	0.8212	0.00086667	0.62	0.1600	0.40	0.026505	0.00836	0.034865	0.000186	4.24667E-05	3.51E-02	6.63E-02	2.09E-02	4.66E-04	1.06E-04	*8.77E-02*	0.75525991	0.23821818	0.99347809	0.00531182	0.00121009
	Silver	0.480208	0.00028444	0.02175	0.1550	181.20	0.00092981	0.00809875	0.009028563	0.000109	1.39378E-05	9.15E-03	5.13E-06	4.47E-05	6.02E-07	7.69E-08	*5.05E-05*	0.10160211	0.88496348	0.98656559	0.0119114	0.001523
	Thallium	0.507083	0.00068333	0.0691667	0.0650	0.07	0	0.00339625	0.00339625	0.000115	3.34833E-05	3.54E-03	0.00E+00	4.59E-02	1.56E-03	4.52E-04	*4.79E-02*	0	0.95808241	0.95808241	0.03247194	0.00944565
	Vanadium	33.34	0.00217389	0.0925	0.0000	11.40	0	0	0	0.007568	0.000106521	7.67E-03	0.00E+00	0.00E+00	6.64E-04	9.34E-06	*6.73E-04*	0	0	0	0.98612056	0.01387944
	Zinc	166.572	0.01360278	27.85	18.1500	14.50	1.1905875	0.9483375	2.138925	0.037812	0.000666536	2.18E+00	8.21E-02	6.54E-02	2.61E-03	4.60E-05	*1.50E-01*	0.54679234	0.43553597	0.98232832	0.01736557	0.00030612

	Maximum Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Fish (mg/Kg)	C Crayfish (mg/Kg)	TRV mg/Kg day	DOSE fish	DOSE crayfish	DOSE prey (f+cf)	DOSE soil/ sediment	DOSE water	Total Dose	HQ fish	HQ crayfish	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ fish	% HQ crayfish	% HQ prey (f + cf)	% HQ soil/ sediment	% HQ water
	Volatile Organics																					
	2-Butanone	0.38119004	0.0021099			12.10	0	0	0	0.000087	0.000103385	1.90E-04	0.00E+00	0.00E+00	7.15E-06	8.54E-06	*1.57E-05*	0	0	0	0.45562492	0.54437508
	Acetone	0.33140515	0			1700.00	0	0	0	0.000075	0	7.52E-05	0.00E+00	0.00E+00	4.43E-08	0.00E+00	*4.43E-08*	0	0	0	1	0
	cis-1,2-Dichloroethene	0.01237688	0.00091542			3114.00	0	0	0	0.000003	4.48557E-05	4.77E-05	0.00E+00	0.00E+00	9.02E-10	1.44E-08	*1.53E-08*	0	0	0	0.05894345	0.94105655
	Tetrachloroethene	0.01222225	0.00091542			14.00	0	0	0	0.000003	4.48557E-05	4.76E-05	0.00E+00	0.00E+00	1.98E-07	3.20E-06	*3.40E-06*	0	0	0	0.05824996	0.94175004
	Trichloroethene	0.0094551	0.00091542			7.00	0	0	0	0.000002	4.48557E-05	4.70E-05	0.00E+00	0.00E+00	3.07E-07	6.41E-06	*6.71E-06*	0	0	0	0.04566422	0.95433578
	Semivolatile Organics																					
	2-Methylnaphthalene	0.36	0.00245604			143.70	0	0	0	0.000082	0.000120346	2.02E-04	0.00E+00	0.00E+00	5.69E-07	8.37E-07	*1.41E-06*	0	0	0	0.40442263	0.59557737
	Acenaphthylene	0.58151579	0.00245604			133.30	0	0	0	0.000132	0.000120346	2.52E-04	0.00E+00	0.00E+00	9.90E-07	9.03E-07	*1.89E-06*	0	0	0	0.52309935	0.47690065
	Anthracene	0.59026536	0.00245604			1000.00	0	0	0	0.000134	0.000120346	2.54E-04	0.00E+00	0.00E+00	1.34E-07	1.20E-07	*2.54E-07*	0	0	0	0.52682355	0.47317645
	Benzo(a)anthracene	2.26381085	0.00245604			1.30	0	0	0	0.000514	0.000120346	6.34E-04	0.00E+00	0.00E+00	3.95E-04	9.26E-05	*4.88E-04*	0	0	0	0.81024917	0.18975083
	Benzo(a)pyrene	1.97539747	0.00245604			1.30	0	0	0	0.000448	0.000120346	5.69E-04	0.00E+00	0.00E+00	3.45E-04	9.26E-05	*4.38E-04*	0	0	0	0.78840703	0.21159297
	Benzo(b)fluoranthene	2.23211797	0.00245604			1.30	0	0	0	0.000507	0.000120346	6.27E-04	0.00E+00	0.00E+00	3.90E-04	9.26E-05	*4.82E-04*	0	0	0	0.80807207	0.19192793
	Benzo(g,h,i)perylene	0.90985456	0.00245604			133.30	0	0	0	0.000207	0.000120346	3.27E-04	0.00E+00	0.00E+00	1.55E-06	9.03E-07	*2.45E-06*	0	0	0	0.63183798	0.36816202
	Benzo(k)fluoranthene	2.68497632	0.00245604			1.30	0	0	0	0.000609	0.000120346	7.30E-04	0.00E+00	0.00E+00	4.69E-04	9.26E-05	*5.61E-04*	0	0	0	0.83510552	0.16489448
	Carbazole	0.45463233	0.00237907			133.30	0	0	0	0.000103	0.000116574	2.20E-04	0.00E+00	0.00E+00	7.74E-07	8.75E-07	*1.65E-06*	0	0	0	0.46957594	0.53042406
	Chrysene	2.60981751	0.00245604			1.30	0	0	0	0.000592	0.000120346	7.13E-04	0.00E+00	0.00E+00	4.56E-04	9.26E-05	*5.48E-04*	0	0	0	0.83115858	0.16884142
	Dibenz(a,h)anthracene	0.46192501	0.00245604			1.30	0	0	0	0.000105	0.000120346	2.25E-04	0.00E+00	0.00E+00	8.07E-05	9.26E-05	*1.73E-04*	0	0	0	0.4656113	0.5343887
	Dibenzofuran	0.62915054	0.00245604			133.30	0	0	0	0.000143	0.000120346	2.63E-04	0.00E+00	0.00E+00	1.07E-06	9.03E-07	*1.97E-06*	0	0	0	0.5426947	0.4573053
	Fluoranthene	4.0029073	0.00245604			125.00	0	0	0	0.000909	0.000120346	1.03E-03	0.00E+00	0.00E+00	7.27E-06	9.63E-07	*8.23E-06*	0	0	0	0.88304649	0.11695351
	Fluorene	0.92045863	0.00245604			125.00	0	0	0	0.000209	0.000120346	3.29E-04	0.00E+00	0.00E+00	1.67E-06	9.63E-07	*2.63E-06*	0	0	0	0.63452926	0.36547074
	Indeno(1,2,3-cd)pyrene	1.34828341	0.00245604			1.30	0	0	0	0.000306	0.000120346	4.26E-04	0.00E+00	0.00E+00	2.35E-04	9.26E-05	*3.28E-04*	0	0	0	0.71776712	0.28223288
	Naphthalene	0.52	0.0028865			140.00	0	0	0	0.000118	0.000141439	2.59E-04	0.00E+00	0.00E+00	8.43E-07	1.01E-06	*1.85E-06*	0	0	0	0.45491221	0.54508779
	N-nitrosodiphenylamine	0.63954259	0.00245604			150.00	0	0	0	0.000145	0.000120346	2.66E-04	0.00E+00	0.00E+00	9.68E-07	8.02E-07	*1.77E-06*	0	0	0	0.54675756	0.45324244
	Phenanthrene	2.3467091	0.00245604			133.30	0	0	0	0.000533	0.000120346	6.53E-04	0.00E+00	0.00E+00	4.00E-06	9.03E-07	*4.90E-06*	0	0	0	0.81571692	0.18428308
	Pyrene	3.09754534	0.00245604			133.30	0	0	0	0.000703	0.000120346	8.23E-04	0.00E+00	0.00E+00	5.27E-06	9.03E-07	*6.18E-06*	0	0	0	0.85385853	0.14614147
	Pesticides and PCBs																					
	4,4'-DDD	0.10931709	9.6427E-05	0.0032	0.00094	8.50	0.0001368	0.000049115	0.000185915	0.000025	4.72494E-06	2.15E-04	1.61E-05	5.78E-06	2.92E-06	5.56E-07	*2.53E-05*	0.6349356	0.22795952	0.86289512	0.11517481	0.02193007
	4,4-DDE	0.05527869	9.6427E-05	0.0195383	0.00530	1.90	0.00083526	0.000276925	0.001112187	0.000013	4.72494E-06	1.13E-03	4.40E-04	1.46E-04	6.60E-06	2.49E-06	*5.94E-04*	0.73952326	0.24518341	0.98470668	0.01110996	0.00418336
	4,4'-DDT	0.03883679	9.6427E-05	0.00222742	0.00000	0.00	9.5222E-05	0	9.52221E-05	0.000009	4.72494E-06	1.09E-04	3.40E-02	0.00E+00	3.15E-03	1.69E-03	*3.88E-02*	0.87550093	0	0.87550093	0.08105651	0.04344255
	Aldrin	0.0016	2.7886E-05	0.0010618	0.00000	0.20	4.5392E-05	0	4.53921E-05	0.000000	1.3664E-06	4.71E-05	2.27E-04	0.00E+00	1.82E-06	6.83E-06	*2.36E-04*	0.96329508	0	0.96329508	0.0077077	0.02899722
	alpha-Chlordane	0.00619929	2.7886E-05	0.00114754	0.00000	2.14	4.9057E-05	0	4.90573E-05	0.000001	1.3664E-06	5.18E-05	2.29E-05	0.00E+00	6.58E-07	6.39E-07	*2.42E-05*	0.94648686	0	0.94648686	0.02715053	0.0263626
	Aroclor 1248	0.11035616	0.00098731	0.01320856	0.00000	0.98	0.025	0	0.025	0.000025	4.83783E-05	2.51E-02	2.55E-02	0.00E+00	2.56E-05	4.94E-05	*2.56E-02*	0.99707143	0	0.99707143	0.0009991	0.00192947
	Aroclor 1254	0.17356494	0.00098731	0.01320856	0.00000	1.50	0.025	0	0.025	0.000039	4.83783E-05	2.51E-02	1.67E-02	0.00E+00	2.63E-05	3.23E-05	*1.67E-02*	0.99650118	0	0.99650118	0.00157046	0.00192836
	Aroclor 1260	0.19298076	0.00098731	0.026936	0.00520	0.35	0.00115151	0.0002717	0.001423214	0.000044	4.83783E-05	1.52E-03	3.34E-03	7.88E-04	1.27E-04	1.40E-04	*4.39E-03*	0.75987516	0.1792927	0.93916786	0.02890765	0.03192449
	beta-BHC	0.00075	2.7886E-05	0.0010618	0.00000	4.00	4.5392E-05	0	4.53921E-05	0.000000	1.3664E-06	4.69E-05	1.13E-05	0.00E+00	4.26E-08	3.42E-07	*1.17E-05*	0.96725571	0	0.96725571	0.00362784	0.02911645
	delta-BHC	0.00874384	2.7886E-05	0.0010618	0.00000	1.60	4.5392E-05	0	4.53921E-05	0.000002	1.3664E-06	4.87E-05	2.84E-05	0.00E+00	1.24E-06	8.54E-07	*3.05E-05*	0.93124703	0	0.93124703	0.04072046	0.02803251
	Endosulfan I	0.01719876	2.7886E-05	0.00088	0.00000	10.00	0.00003762	0	0.00003762	0.000004	1.3664E-06	4.29E-05	3.76E-06	0.00E+00	3.90E-07	1.37E-07	*4.29E-06*	0.87711695	0	0.87711695	0.09102521	0.03185784
	Endosulfan Sulfate	0.00854661	9.6427E-05	0.00206548	0.00000	10.00	8.8299E-05	0	8.82994E-05	0.000002	4.72494E-06	9.50E-05	8.83E-06	0.00E+00	1.94E-07	4.72E-07	*9.50E-06*	0.92981561	0	0.92981561	0.02042954	0.04975485
	Endrin Aldehyde	0.0059	9.6427E-05	0.00206548	0.00000	0.30	8.8299E-05	0	8.82994E-05	0.000001	4.72494E-06	9.44E-05	2.94E-04	0.00E+00	4.46E-06	1.57E-05	*3.15E-04*	0.93573541	0	0.93573541	0.01419296	0.05007162
	gamma-Chlordane	0.0046	0.0000017	0.00106034	0.00000	2.14	4.5329E-05	0	4.53294E-05	0.000001	8.33E-08	4.65E-05	2.12E-05	0.00E+00	4.88E-07	3.89E-08	*2.17E-05*	0.97573018	0	0.97573018	0.02247676	0.00179306
	Inorganics																					
	Aluminum	9110.90995	1.36539082	3.66468064	10.1	109.70	0.1566651	0.527725	0.684390097	2.068177	0.06690415	2.82E+00	1.43E-03	4.81E-03	1.89E-02	6.10E-04	*2.57E-02*	0.05556543	0.18717165	0.24273708	0.7335336	0.02372933
	Antimony	1.3114162	0.01871452	0.05607096	0.0	0.13	0.00239703	0	0.002397033	0.000298	0.000917011	3.61E-03	1.92E-02	0.00E+00	2.38E-03	7.34E-03	*2.89E-02*	0.66367896	0	0.66367896	0.08242337	0.25389767
	Arsenic	25.0757871	0.00713341	0.05388762	0.0	5.14	0.0023037	0	0.002303696	0.005692	0.000349537	8.35E-03	4.48E-04	0.00E+00	1.11E-03	6.80E-05	*1.62E-03*	0.27604256	0	0.27604256	0.68207381	0.04188363
	Barium	67.2340431	0.03862552	2.56838874	18.3	208.00	0.10979862	0.956175	1.065973619	0.015262	0.00189265	1.08E+00	5.28E-04	4.60E-03	7.34E-05	9.10E-06	*5.21E-03*	0.10137175	0.88279008	0.98416182	0.01409078	0.00174739
	Beryllium	0.62626426	9.98E-05	0.00582333	0.0	0.66	0.00024895	0	0.000248947	0.000142	4.89021E-06	3.96E-04	3.77E-04	0.00E+00	2.15E-04	7.41E-06	*6.00E-04*	0.6286556	0	0.6286556	0.35899538	0.01234902
	Cadmium	1.99980141	0.00046302	0.018	0.1	1.45	0.0007695	0.0047025	0.005472	0.000454	2.26879E-05	5.95E-03	5.31E-04	3.24E-03	3.13E-04	1.56E-05	*4.10E-03*	0.12935724	0.79051645	0.91987369	0.07631235	0.00381396
	Chromium	370.017342	0.00088	0.35	0.2	1.00	0.0149625	0.009405	0.0243675	0.083994	0.00004312	1.08E-01	1.50E-02	9.41E-03	8.40E-02	4.31E-05	*1.08E-01*	0.13802464	0.08675835	0.22478299	0.77481924	0.00039777
	Cobalt	10.2255156	0.0071	0.04487362	0.4	5.00	0.00191835	0.02299	0.024908347	0.002321	0.0003479	2.76E-02	3.84E-04	4.60E-03	4.64E-04	6.96E-05	*5.52E-03*	0.06956219	0.83365246	0.90321465	0.08416996	0.01261538
	Copper	91.2696188	0.00530976	0.49112174	21.0	47.00	0.02099545	1.09725	1.118245454	0.020718	0.000260178	1.14E+00	4.47E-04	2.33E-02	4.41E-04	5.54E-06	*2.42E-02*	0.01842961	0.96315576	0.98158537	0.01818624	0.00022838
	Cyanide	0.4516316	0	0.24273932	0.0	68.70	0.01037711	0	0.010377106	0.000103	0	1.05E-02	1.51E-04	0.00E+00	1.49E-06	0.00E+00	*1.53E-04*	0.99021717	0	0.99021717	0.00978283	0
X	Iron	20053.6171	5.96209536	45.6264717	78.0	3.19	1.95053166	4.0755	6.026031665	4.552171	0.292142673	1.09E+01	6.11E-01	1.28E+00	1.43E+00	9.16E-02	*3.41E+00*	0.17943603	0.37491909	0.55435512	0.41876968	0.0268752
	Lead	296.685259	0.01799063	0.03744317	0.0	1.13	0.0016007	0	0.001600695	0.067348	0.000881541	6.98E-02	1.42E-03	0.00E+00	5.96E-02	7.80E-04	*6.18E-02*	0.02292282	0	0.02292282	0.96445305	0.01262414
	Manganese	678.709865	0.85064338	33.9663083	108.0	977.00	1.45205968	5.643	7.09505968	0.154067	0.041681526	7.29E+00	1.49E-03	5.78E-03	1.58E-04	4.27E-05	*7.46E-03*	0.19916306	0.77398825	0.97315131	0.0211317	0.005717
	Mercury	0.32304843	0.00011715	0.08854246	0.0	0.01	0.00378519	0	0.00378519	0.000073	5.74035E-06	3.86E-03	5.91E-01	0.00E+00	1.15E-02	8.97E-04	*6.04E-01*	0.97953753	0	0.97953753	0.01897697	0.0014855
	Nickel	16.7202774	0.00269063	0.02512935	0.0	77.40	0.00107428	0	0.00107428	0.003796	0.000131841	5.00E-03	1.39E-05	0.00E+00	4.90E-05	1.70E-06	*6.46E-05*	0.21478621	0	0.21478621	0.75885421	0.02635957
	Selenium	1.5395849	0.00098312	0.65528732	0.2	0.40	0.02801353	0.01254	0.040553533	0.000349	4.81727E-05	4.10E-02	7.00E-02	3.14E-02	8.74E-04	1.20E-04	*1.02E-01*	0.68407126	0.3062182	0.99028945	0.0085342	0.00117634
	Silver	1.10917445	0.00035786	0.02719902	0.2	181.20	0.00116276	0.0109725	0.012135258	0.000252	1.75351E-05	1.24E-02	6.42E-06	6.06E-05	1.39E-06	9.68E-08	*6.85E-05*	0.09373622	0.88455261	0.97828884	0.02029756	0.0014136
	Thallium	0.66297503	0.00071099	0.07618025	0.0	0.07	0.00325671	0	0.003256706	0.000150	3.48385E-05	3.44E-03	4.40E-02	0.00E+00	2.03E-03	4.71E-04	*4.65E-02*	0.94615581	0	0.94615581	0.04372272	0.01012147
	Vanadium	44.6154381	0.00497439	0	0.0	11.40	0	0	0	0.010128	0.000243745	1.04E-02	0.00E+00	0.00E+00	8.88E-04	2.14E-05	*9.10E-04*	0	0	0	0.97649847	0.02350153
	Zinc	240.350102	0.02923178	36.467208	18.3	14.50	1.55897314	0.956175	2.51514814	0.054559	0.001432357	2.57E+00	1.08E-01	6.59E-02	3.76E-03	9.88E-05	*1.77E-01*	0.60633538	0.37188757	0.97822296	0.02121995	0.00055709

	Mean Concentrations																				
	Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
	Volatile Organics																				
	2-Butanone	0.03875532	0.0025			12.1	0	0	0	3.6449E-05	0.0000725	1.09E-04	0.00E+00	0.00E+00	3.01E-06	5.99E-06	*9.00E-06*	0	0	0.33455333	0.66544667
	Acetone	0.3889537	0.0025			1700.0	0	0	0	0.00036581	0.0000725	4.38E-04	0.00E+00	0.00E+00	2.15E-07	4.26E-08	*2.58E-07*	0	0	0.83459232	0.16540768
	cis-1,2-Dichloroethene	0.09539474	0.00090625			3114.0	0	0	0	8.9719E-05	2.62813E-05	1.16E-04	0.00E+00	0.00E+00	2.88E-08	8.44E-09	*3.73E-08*	0	0	0.7734375	0.2265625
	Tetrachloroethene	0.03716964	0.00059375			14.0	0	0	0	3.4958E-05	1.72188E-05	5.22E-05	0.00E+00	0.00E+00	2.50E-06	1.23E-06	*3.73E-06*	0	0	0.66999221	0.33000779
	Trichloroethene	0.05497368	0.0006875			7.0	0	0	0	5.1703E-05	1.99375E-05	7.16E-05	0.00E+00	0.00E+00	7.39E-06	2.85E-06	*1.02E-05*	0	0	0.72169974	0.27830026
	Semivolatile Organics																				
	2-Methylnaphthalene	0.20402419	0.0025			143.70	0	0	0	0.00019188	0.0000725	2.64E-04	0.00E+00	0.00E+00	1.34E-06	5.05E-07	*1.84E-06*	0	0	0.72577844	0.27422156
	Acenaphthylene	0.19953226	0.0025			133.30	0	0	0	0.00018766	0.0000725	2.60E-04	0.00E+00	0.00E+00	1.41E-06	5.44E-07	*1.95E-06*	0	0	0.72132543	0.27867457
	Anthracene	0.26072222	0.0025			1000.00	0	0	0	0.00024521	0.0000725	3.18E-04	0.00E+00	0.00E+00	2.45E-07	7.25E-08	*3.18E-07*	0	0	0.77180394	0.22819606
	Benzo(a)anthracene	0.85673973	0.0025			1.30	0	0	0	0.00080576	0.0000725	8.78E-04	0.00E+00	0.00E+00	6.20E-04	5.58E-05	*6.76E-04*	0	0	0.91745076	0.08254924
	Benzo(a)pyrene	0.90649296	0.0025		0.14	1.30	0	0.010724655	0.010724655	0.00085256	0.0000725	1.16E-02	0.00E+00	8.25E-03	6.56E-04	5.58E-05	*8.96E-03*	0	0.92059403	0.07318264	0.00622333
	Benzo(b)fluoranthene	1.47862025	0.0025		0.11	1.30	0	0.008389626	0.008389626	0.00139064	0.0000725	9.85E-03	0.00E+00	6.45E-03	1.07E-03	5.58E-05	*7.58E-03*	0	0.85149936	0.1411423	0.00735834
	Benzo(g,h,i)perylene	0.53520896	0.0025			133.30	0	0	0	0.00050336	0.0000725	5.76E-04	0.00E+00	0.00E+00	3.78E-06	5.44E-07	*4.32E-06*	0	0	0.87410222	0.12589778
	Benzo(k)fluoranthene	1.07107192	0.0025		0.21	1.30	0	0.015894077	0.015894077	0.00100734	0.0000725	1.70E-02	0.00E+00	1.22E-02	7.75E-04	5.58E-05	*1.31E-02*	0	0.93638222	0.05934652	0.00427126
	Carbazole	0.24755319	0			133.30	0	0	0	0.00023282	0	2.33E-04	0.00E+00	0.00E+00	1.75E-06	0.00E+00	*1.75E-06*	0	0	1	0
	Chrysene	1.07275676	0.0025		0.13	1.30	0	0.009330334	0.009330334	0.00100893	0.0000725	1.04E-02	0.00E+00	7.18E-03	7.76E-04	5.58E-05	*8.01E-03*	0	0.89613403	0.09690269	0.00696328
	Dibenz(a,h)anthracene	0.26778906	0.0025			1.30	0	0	0	0.00025186	0.0000725	3.24E-04	0.00E+00	0.00E+00	1.94E-04	5.58E-05	*2.50E-04*	0	0	0.7764799	0.2235201
	Dibenzofuran	0.26453333	0.0025			133.30	0	0	0	0.00024879	0.0000725	3.21E-04	0.00E+00	0.00E+00	1.87E-06	5.44E-07	*2.41E-06*	0	0	0.77434969	0.22565031
	Fluoranthene	1.84351899	0.0025		0.09	125.00	0	0.006494488	0.006494488	0.00173383	0.0000725	8.30E-03	0.00E+00	5.20E-05	1.39E-05	5.80E-07	*6.64E-05*	0	0.78239135	0.20887457	0.00873408
	Fluorene	0.22144444	0.0025			125.00	0	0	0	0.00020827	0.0000725	2.81E-04	0.00E+00	0.00E+00	1.67E-06	5.80E-07	*2.25E-06*	0	0	0.74178015	0.25821985
	Indeno(1,2,3-cd)pyrene	0.57682857	0.0025		0.24	1.30	0	0.018109091	0.018109091	0.00054251	0.0000725	1.87E-02	0.00E+00	1.39E-02	4.17E-04	5.58E-05	*1.44E-02*	0	0.96715424	0.02897375	0.00387202
	Naphthalene	0.253659	0.0025			140.00	0	0	0	0.00023857	0.0000725	3.11E-04	0.00E+00	0.00E+00	1.70E-06	5.18E-07	*2.22E-06*	0	0	0.76693071	0.23306929
	N-nitrosodiphenylamine	0.28204167	0.0025			150.00	0	0	0	0.00026526	0.0000725	3.38E-04	0.00E+00	0.00E+00	1.77E-06	4.83E-07	*2.25E-06*	0	0	0.78535066	0.21464934
	Phenanthrene	0.89507143	0.0025		0.24	133.30	0	0.017963876	0.017963876	0.00084181	0.0000725	1.89E-02	0.00E+00	1.35E-04	6.32E-06	5.44E-07	*1.42E-04*	0	0.95156767	0.04459192	0.00384041
	Pyrene	1.49128205	0.0025		0.09	133.30	0	0.006813407	0.006813407	0.00140255	0.0000725	8.29E-03	0.00E+00	5.11E-05	1.05E-05	5.44E-07	*6.22E-05*	0	0.82203556	0.16921733	0.0087471
	Pesticides and PCBs																				
	4,4'-DDD	0.02587947	0.00005	0.0024	1.34E-03	8.50	0.00019635	9.96951E-05	0.000296048	2.434E-05	0.00000145	3.22E-04	2.31E-05	1.17E-05	2.86E-06	1.71E-07	*3.79E-05*	0.61009934	0.3097682	0.07562708	0.00450538
	4,4'-DDE	0.01658076	0.00005	0.0050	7.20E-04	1.90	0.00040563	5.36861E-05	0.000459319	1.5594E-05	0.00000145	4.76E-04	2.13E-04	2.83E-05	8.21E-06	7.63E-07	*2.51E-04*	0.85152032	0.11269986	0.03273593	0.00304389
	4,4'-DDT	0.00531286	0.00005	0.0012	8.53E-04	0.00	9.4258E-05	6.36282E-05	0.000157886	4.9967E-06	0.00000145	1.64E-04	3.37E-02	2.27E-02	1.78E-03	5.18E-04	*5.87E-02*	0.57357835	0.38719177	0.0304063	0.00882358
	Aldrin	0.00134839	0.000025	0.0003		0.20	2.3157E-05	0	2.31572E-05	1.2682E-06	0.000000725	2.52E-05	1.16E-04	0.00E+00	6.34E-06	3.63E-06	*1.26E-04*	0.92075039	0	0.05042301	0.0288266
	alpha-Chlordane	0.01140513	2.3653E-05	0.0009	1.17E-03	2.14	7.563E-05	8.70386E-05	0.000162669	1.0727E-05	6.85934E-07	1.74E-04	3.53E-05	4.07E-05	5.01E-06	3.21E-07	*8.13E-05*	0.43445276	0.49998891	0.06161802	0.00394032
	Aroclor 1248	0.06358986	0.0005	0.0026		0.98	0.00021427	0	0.000214268	5.9806E-05	0.0000145	2.89E-04	2.19E-04	0.00E+00	6.10E-05	1.48E-05	*2.94E-04*	0.74250554	0	0.20724741	0.05024704
	Aroclor 1254	0.14952826	0.0005	0.0157		1.50	0.00127746	0	0.001277465	0.00014063	0.0000145	1.43E-03	8.52E-04	0.00E+00	9.38E-05	9.67E-06	*9.55E-04*	0.89171312	0	0.09816539	0.01012149
	Aroclor 1260	0.19182676	0.0005	0.0258	1.20E-02	0.35	0.00210247	0.000893357	0.00299583	0.00018041	0.0000145	3.19E-03	6.09E-03	2.59E-03	5.23E-04	4.20E-05	*9.25E-03*	0.6589288	0.27998416	0.05654265	0.0045444
	beta-BHC	0.00137299	0.000025	0.0003		4.00	2.2699E-05	0	2.26992E-05	1.2913E-06	0.000000725	2.47E-05	5.67E-06	0.00E+00	3.23E-07	1.81E-07	*6.18E-06*	0.9184198	0	0.05224634	0.02933386
	delta-BHC	0.00188934	0.000025	0.0003		1.60	2.1732E-05	0	2.17322E-05	1.7769E-06	0.000000725	2.42E-05	1.36E-05	0.00E+00	1.11E-06	4.53E-07	*1.51E-05*	0.89675998	0	0.07332349	0.02991653
	Endosulfan I	0.00461565	0.000025	0.0004	7.60E-04	10.00	3.1046E-05	5.66377E-05	8.76837E-05	4.341E-06	0.000000725	9.27E-05	3.10E-06	5.66E-06	4.34E-07	7.25E-08	*9.27E-06*	0.33472838	0.61065126	0.04680362	0.00781674
	Endosulfan Sulfate	0.00226133	0.00005	0.0008		10.00	6.2092E-05	0	6.20919E-05	2.1268E-06	0.00000145	6.57E-05	6.21E-06	0.00E+00	2.13E-07	1.45E-07	*6.57E-06*	0.94553288	0	0.03238658	0.02208054
	Endrin Aldehyde	0.00290976	0.00005	0.0020	8.94E-04	0.30	0.00016643	6.66805E-05	0.000233107	2.7366E-06	0.00000145	2.37E-04	5.55E-04	2.22E-04	9.12E-06	4.83E-06	*7.91E-04*	0.70135282	0.28100394	0.01153267	0.00611057
	gamma-Chlordane	0.01494473	2.3612E-05	0.0004	1.43E-03	2.14	3.2471E-05	0.000106968	0.000139439	1.4056E-05	6.84742E-07	1.54E-04	1.52E-05	5.00E-05	6.57E-06	3.20E-07	*7.20E-05*	0.21060613	0.69378892	0.09116373	0.00444122
	Inorganics																				
	Aluminum	10335.5212	0.25301176	50.0063	1.72E+02	109.70	4.07210895	12.82836558	16.90047453	9.72055772	0.007337341	2.66E+01	3.71E-02	1.17E-01	8.86E-02	6.69E-05	*2.43E-01*	0.15292371	0.48175558	0.36504517	0.00027555
	Antimony	6.1743514	0.00067941	0.0484		0.13	0.00394364	0	0.003943638	0.00580698	1.97029E-05	9.77E-03	3.15E-02	0.00E+00	4.65E-02	1.58E-04	*7.82E-02*	0.40363453	0	0.59434886	0.00201661
	Arsenic	279.439382	0.01390588	2.2175	14.73	5.14	0.18057546	1.098273323	1.278848783	0.26281274	0.000403271	1.54E+00	3.51E-02	2.14E-01	5.11E-02	7.85E-05	*3.00E-01*	0.11709979	0.71220958	0.17042912	0.00026151
	Barium	87.1196911	0.03672059	10.1813	8.50	208.00	0.82907955	0.633455475	1.462535025	0.08193607	0.001064897	1.55E+00	3.99E-03	3.05E-03	3.94E-04	5.12E-06	*7.43E-03*	0.53643497	0.40986135	0.05301466	0.00068901
	Beryllium	0.6816549	5.1412E-05	0.0054		0.66	0.00043719	0	0.000437192	0.0006411	1.49094E-06	1.08E-03	6.62E-04	0.00E+00	9.71E-04	2.26E-06	*1.64E-03*	0.40489019	0	0.59372903	0.00138078
	Cadmium	6.2776042	0.00029629	0.0701	0.67	1.45	0.00570605	0.050146191	0.055852246	0.00590409	8.59253E-06	6.18E-02	3.94E-03	3.46E-02	4.07E-03	5.93E-06	*4.26E-02*	0.09238341	0.81188784	0.09558964	0.00013912
X	Chromium	1214.61216	0.01258941	1.1325	22.70	1.00	0.09222174	1.692553783	1.784775523	1.14234274	0.000365093	2.93E+00	9.22E-02	1.69E+00	1.14E+00	3.65E-04	*2.93E+00*	0.03150205	0.57816	0.39021323	0.00012471
	Cobalt	14.6833591	0.000905	0.4388	1.30	5.00	0.03572829	0.097246089	0.132974379	0.0138097	2.6245E-05	1.47E-01	7.15E-03	1.94E-02	2.76E-03	5.25E-06	*2.94E-02*	0.24336361	0.66239272	0.09406491	0.00017877
	Copper	390.088803	0.01178529	49.6688	19.76	47.00	4.04462565	1.473240078	5.517865728	0.36687852	0.000341774	5.89E+00	8.61E-02	3.13E-02	7.81E-03	7.27E-06	*1.25E-01*	0.68726704	0.2503345	0.06234038	5.8075E-05
	Cyanide	1.037439	0.0025	0.2394		68.70	0.01949279	0	0.019492785	0.00097571	0.0000725	2.05E-02	2.84E-04	0.00E+00	1.42E-05	1.06E-06	*2.99E-04*	0.94896979	0	0.04750068	0.00352953
X	Iron	26526.3127	1.56129412	345.0313	2195.84	3.19	28.0965848	163.7396049	191.8361896	24.9479971	0.045277529	2.17E+02	8.81E+00	5.13E+01	7.82E+00	1.42E-02	*6.80E+01*	0.12957918	0.75515385	0.11505815	0.00020882
X	Lead	341.619884	0.00738706	0.7778	31.15	1.13	0.06333883	2.323093692	2.38643252	0.3212935	0.000214225	2.71E+00	5.61E-02	2.06E+00	2.84E-01	1.90E-04	*2.40E+00*	0.02339004	0.85788218	0.11864867	7.911E-05
	Manganese	454.71834	0.4224	98.9250	256.42	977.00	8.0556606	19.12070648	27.17636708	0.4276626	0.0122496	2.76E+01	8.25E-03	1.96E-02	4.38E-04	1.25E-05	*2.83E-02*	0.29169971	0.69237084	0.01548589	0.00044356
X	Mercury	2.4094804	0.00014506	0.0092	0.08	0.01	0.00074816	0.006293823	0.00704198	0.00226612	4.20671E-06	9.31E-03	1.17E-01	9.83E-01	3.54E-01	6.57E-04	*1.46E+00*	0.08034065	0.67586111	0.2433465	0.00045174
	Nickel	21.740695	0.00207	0.0846	0.56	77.40	0.00688609	0.041879973	0.048766066	0.02044712	0.00006003	6.93E-02	8.90E-05	5.41E-04	2.64E-04	7.76E-07	*8.95E-04*	0.09940484	0.60456224	0.29516635	0.00086657
	Selenium	3.2456275	0.00079412	0.4069	0.28	0.40	0.03313265	0.020795574	0.053928219	0.00305251	2.30294E-05	5.70E-02	8.28E-02	5.20E-02	7.63E-03	5.76E-05	*1.43E-01*	0.58123612	0.36481056	0.05354932	0.000404
	Silver	0.55	0.00032235	0.0323		181.20	0.00263127	0	0.002631272	0.00051728	9.34823E-06	3.16E-03	1.45E-05	0.00E+00	2.85E-06	5.16E-08	*1.74E-05*	0.83323598	0	0.16380375	0.00296027
	Thallium	1.3591456	0.00082059	0.0825		0.07	0.00671814	0	0.00671814	0.00127828	2.37971E-05	8.02E-03	9.08E-02	0.00E+00	1.73E-02	3.22E-04	*1.08E-01*	0.83765102	0	0.15938185	0.00296714
	Vanadium	43.8326255	0.00138162	0.1467	1.53	11.40	0.01194724	0.113730173	0.125677411	0.04122458	4.00669E-05	1.67E-01	1.05E-03	9.98E-03	3.62E-03	3.51E-06	*1.46E-02*	0.07156518	0.68125535	0.24693947	0.00024
	Zinc	1195.07297	0.07170294	25.3938	46.26	14.50	2.06786385	3.449828078	5.517691928	1.12396613	0.002079385	6.64E+00	1.43E-01	2.38E-01	7.75E-02	1.43E-04	*4.58E-01*	0.31125009	0.51926015	0.16917678	0.00031298

Table E.1-52. Maximum Exposure Calculations for Mallard (Site-Wide)

	Maximum Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
	Volatile Organics																				
	2-Butanone	0.12962452	0			12.10	0	0	0	0.00012191	0	1.22E-04	0.00E+00	0.00E+00	1.01E-05	0.00E+00	*1.01E-05*	0	0	1	0
	Acetone	1.36851296	0			1700.00	0	0	0	0.00128709	0	1.29E-03	0.00E+00	0.00E+00	7.57E-07	0.00E+00	*7.57E-07*	0	0	1	0
	cis-1,2-Dichloroethene	0.19625028	0.00203555			3114.00	0	0	0	0.00018457	5.9031E-05	2.44E-04	0.00E+00	0.00E+00	5.93E-08	1.90E-08	*7.82E-08*	0	0	0.75767665	0.24232335
	Tetrachloroethene	0.041	0.0007581			14.00	0	0	0	3.8561E-05	2.19849E-05	6.05E-05	0.00E+00	0.00E+00	2.75E-06	1.57E-06	*4.32E-06*	0	0	0.63688618	0.36311382
	Trichloroethene	0.27135135	0.00091204			7.00	0	0	0	0.00025521	2.64492E-05	2.82E-04	0.00E+00	0.00E+00	3.65E-05	3.78E-06	*4.02E-05*	0	0	0.90609355	0.09390645
	Semivolatile Organics																				
	2-Methylnaphthalene	0.22	0			143.70	0	0	0	0.00020691	0	2.07E-04	0.00E+00	0.00E+00	1.44E-06	0.00E+00	*1.44E-06*	0	0	1	0
	Acenaphthylene	0.35252764	0			133.30	0	0	0	0.00033155	0	3.32E-04	0.00E+00	0.00E+00	2.49E-06	0.00E+00	*2.49E-06*	0	0	1	0
	Anthracene	0.38457278	0			1000.00	0	0	0	0.00036169	0	3.62E-04	0.00E+00	0.00E+00	3.62E-07	0.00E+00	*3.62E-07*	0	0	1	0
	Benzo(a)anthracene	2.02400324	0			1.30	0	0	0	0.00190358	0	1.90E-03	0.00E+00	0.00E+00	1.46E-03	0.00E+00	*1.46E-03*	0	0	1	0
	Benzo(a)pyrene	2.09737006	0		0.33	1.30	0	0.024813838	0.024813838	0.00197258	0	2.68E-02	0.00E+00	1.91E-02	1.52E-03	0.00E+00	*2.06E-02*	0	0.92635907	0.07364093	0
	Benzo(b)fluoranthene	3.33469658	0		0.25	1.30	0	0.018920921	0.018920921	0.00313628	0	2.21E-02	0.00E+00	1.46E-02	2.41E-03	0.00E+00	*1.70E-02*	0	0.85781143	0.14218857	0
	Benzo(g,h,i)perylene	0.95495978	0			133.30	0	0	0	0.00089814	0	8.98E-04	0.00E+00	0.00E+00	6.74E-06	0.00E+00	*6.74E-06*	0	0	1	0
	Benzo(k)fluoranthene	1.25929539	0		0.25	1.30	0	0.018687203	0.018687203	0.00118437	0	1.99E-02	0.00E+00	1.44E-02	9.11E-04	0.00E+00	*1.53E-02*	0	0.94039891	0.05960109	0
	Carbazole	0.32576064	0			133.30	0	0	0	0.00030638	0	3.06E-04	0.00E+00	0.00E+00	2.30E-06	0.00E+00	*2.30E-06*	0	0	1	0
	Chrysene	2.49001243	0		0.29	1.30	0	0.021656958	0.021656958	0.00234186	0	2.40E-02	0.00E+00	1.67E-02	1.80E-03	0.00E+00	*1.85E-02*	0	0.90241782	0.09758218	0
	Dibenz(a,h)anthracene	0.42052163	0			1.30	0	0	0	0.0003955	0	3.96E-04	0.00E+00	0.00E+00	3.04E-04	0.00E+00	*3.04E-04*	0	0	1	0
	Dibenzofuran	0.38730143	0			133.30	0	0	0	0.00036426	0	3.64E-04	0.00E+00	0.00E+00	2.73E-06	0.00E+00	*2.73E-06*	0	0	1	0
	Fluoranthene	4.45004385	0		0.21	125.00	0	0.01567695	0.01567695	0.00418527	0	1.99E-02	0.00E+00	1.25E-04	3.35E-05	0.00E+00	*1.59E-04*	0	0.78928503	0.21071497	0
	Fluorene	0.30451177	0			125.00	0	0	0	0.00028639	0	2.86E-04	0.00E+00	0.00E+00	2.29E-06	0.00E+00	*2.29E-06*	0	0	1	0
	Indeno(1,2,3-cd)pyrene	0.67752082	0		0.29	1.30	0	0.021270247	0.021270247	0.00063721	0	2.19E-02	0.00E+00	1.64E-02	4.90E-04	0.00E+00	*1.69E-02*	0	0.97091363	0.02908637	0
	Naphthalene	0.54011281	0.00264666			140.00	0	0	0	0.00050798	7.67532E-05	5.85E-04	0.00E+00	0.00E+00	3.63E-06	5.48E-07	*4.18E-06*	0	0	0.86873724	0.13126276
	N-nitrosodiphenylamine	0.40104794	0			150.00	0	0	0	0.00037719	0	3.77E-04	0.00E+00	0.00E+00	2.51E-06	0.00E+00	*2.51E-06*	0	0	1	0
	Phenanthrene	2.17959735	0		0.59	133.30	0	0.043744013	0.043744013	0.00204991	0	4.58E-02	0.00E+00	3.28E-04	1.54E-05	0.00E+00	*3.44E-04*	0	0.95523617	0.04476383	0
	Pyrene	1.97472323	0		0.12	133.30	0	0.009022166	0.009022166	0.00185723	0	1.09E-02	0.00E+00	6.77E-05	1.39E-05	0.00E+00	*8.16E-05*	0	0.82928944	0.17071056	0
	Pesticides and PCBs																				
	4,4'-DDD	0.06077021	0	0.0033	3.14E-03	8.50	0.00027099	0.000234104	0.000505096	5.7154E-05	0	5.62E-04	3.19E-05	2.75E-05	6.72E-06	0.00E+00	*6.61E-05*	0.48197741	0.41636972	0.10165287	0
	4,4-DDE	0.03634269	0	0.0069	1.58E-03	1.90	0.00055831	0.000117672	0.000675978	3.418E-05	0	7.10E-04	2.94E-04	6.19E-05	1.80E-05	0.00E+00	*3.74E-04*	0.78617069	0.16569878	0.04813053	0
	4,4'-DDT	0.00694553	0	0.0015	1.12E-03	0.00	0.00012177	8.31814E-05	0.000204949	6.5323E-06	0	2.11E-04	4.35E-02	2.97E-02	2.33E-03	0.00E+00	*7.55E-02*	0.57578348	0.39332831	0.03088821	0
	Aldrin	0.00325068	0	0.0003		0.20	2.5244E-05	0	2.52439E-05	3.0573E-06	0	2.83E-05	1.26E-04	0.00E+00	1.53E-05	0.00E+00	*1.42E-04*	0.89197398	0	0.10802602	0
	alpha-Chlordane	0.02513992	0.0000021	0.0012	2.57E-03	2.14	0.00010054	0.000191856	0.000292399	2.3644E-05	6.09E-08	3.16E-04	4.70E-05	8.97E-05	1.10E-05	2.85E-08	*1.48E-04*	0.31807019	0.60693877	0.07479839	0.00019266
	Aroclor 1248	0.10508441	0	0.0029		0.98	0.00023564	0	0.00023564	9.8832E-05	0	3.34E-04	2.40E-04	0.00E+00	1.01E-04	0.00E+00	*3.41E-04*	0.70451399	0	0.29548601	0
	Aroclor 1254	0.46411829	0	0.0204		1.50	0.0016601	0	0.001660103	0.0004365	0	2.10E-03	1.11E-03	0.00E+00	2.91E-04	0.00E+00	*1.40E-03*	0.79180485	0	0.20819515	0
	Aroclor 1260	0.51704253	0	0.0337	3.23E-02	0.35	0.0027414	0.002407922	0.005149317	0.00048628	0	5.64E-03	7.95E-03	6.98E-03	1.41E-03	0.00E+00	*1.63E-02*	0.48644292	0.42727011	0.08628697	0
	beta-BHC	0.00241754	0	0.0003		4.00	2.5362E-05	0	2.53624E-05	2.2737E-06	0	2.76E-05	6.34E-06	0.00E+00	5.68E-07	0.00E+00	*6.91E-06*	0.91772743	0	0.08227257	0
	delta-BHC	0.00475981	0	0.0003		1.60	2.3899E-05	0	2.3899E-05	4.4766E-06	0	2.84E-05	1.49E-05	0.00E+00	2.80E-06	0.00E+00	*1.77E-05*	0.84223781	0	0.15776219	0
	Endosulfan I	0.01378279	0	0.0005	2.27E-03	10.00	4.1121E-05	0.000169126	0.000210247	1.2963E-05	0	2.23E-04	4.11E-06	1.69E-05	1.30E-06	0.00E+00	*2.23E-05*	0.1842276	0.7576983	0.0580741	0
	Endosulfan Sulfate	0.0021	0	0.0010		10.00	8.0678E-05	0	8.06782E-05	1.9751E-06	0	8.27E-05	8.07E-06	0.00E+00	1.98E-07	0.00E+00	*8.27E-06*	0.97610438	0	0.02389562	0
	Endrin Aldehyde	0.00429602	0	0.0027	1.32E-03	0.30	0.00022199	9.84481E-05	0.000320441	4.0404E-06	0	3.24E-04	7.40E-04	3.28E-04	1.35E-05	0.00E+00	*1.08E-03*	0.68414701	0.30340112	0.01245187	0
	gamma-Chlordane	0.06888807	0.0000014	0.0006	6.61E-03	2.14	4.583E-05	0.000493069	0.000538899	6.4789E-05	4.06E-08	6.04E-04	2.14E-05	2.30E-04	3.03E-05	1.90E-08	*2.82E-04*	0.07591098	0.81670667	0.1073151	6.7249E-05
	Inorganics																				
	Aluminum	11152.0826	0.47143228	59.1894	1.86E+02	109.70	4.81990969	13.841875	18.66178469	10.4885337	0.013671536	2.92E+01	4.39E-02	1.26E-01	9.56E-02	1.25E-04	*2.66E-01*	0.16526921	0.47462213	0.35963988	0.00046878
	Antimony	11.0338438	0.00079563	0.0516		0.13	0.00419997	0	0.004199967	0.01037733	2.30733E-05	1.46E-02	3.36E-02	0.00E+00	8.30E-02	1.85E-04	*1.17E-01*	0.28766168	0	0.710758	0.00158032
	Arsenic	524.311573	0.02171354	3.0890	27.64	5.14	0.2515426	2.060688113	2.312230711	0.49311503	0.000629693	2.81E+00	4.89E-02	4.01E-01	9.59E-02	1.23E-04	*5.46E-01*	0.08964533	0.73439278	0.17573747	0.00022441
	Barium	89.1385086	0.03973851	13.2536	8.69	208.00	1.0792698	0.648134487	1.727404283	0.08383477	0.001152417	1.81E+00	5.19E-03	3.12E-03	4.03E-04	5.54E-06	*8.71E-03*	0.59549486	0.35761285	0.04625643	0.00063585
	Beryllium	0.74288035	9.3352E-05	0.0062		0.66	0.00050128	0	0.000501281	0.00069868	2.70722E-06	1.20E-03	7.60E-04	0.00E+00	1.06E-03	4.10E-06	*1.82E-03*	0.41680756	0	0.58094143	0.00225101
	Cadmium	7.04118324	0.00176552	0.0998	0.75	1.45	0.00812344	0.056245745	0.064369184	0.00662223	5.12001E-05	7.10E-02	5.60E-03	3.88E-02	4.57E-03	3.53E-05	*4.90E-02*	0.11434601	0.79171836	0.09321493	0.0007207
X	Chromium	1675.30704	0.02016543	1.6250	31.31	1.00	0.1323288	2.334528966	2.466857765	1.57562627	0.000584797	4.04E+00	1.32E-01	2.33E+00	1.58E+00	5.85E-04	*4.04E+00*	0.03272979	0.57741509	0.38971047	0.00014464
	Cobalt	16.3621449	0.00137363	0.5353	1.45	5.00	0.04359198	0.108364481	0.151956464	0.0153886	3.98353E-05	1.67E-01	8.72E-03	2.17E-02	3.08E-03	7.97E-06	*3.35E-02*	0.26042961	0.64739701	0.0919354	0.00023799
	Copper	579.168652	0.03907888	57.4012	29.33	47.00	4.67429667	2.187333919	6.861630591	0.54470812	0.001133287	7.41E+00	9.95E-02	4.65E-02	1.16E-02	2.41E-05	*1.58E-01*	0.63102455	0.2952875	0.07353495	0.00015299
	Cyanide	1.78348396	0	0.2611		68.70	0.0212629	0	0.021262905	0.00167737	0	2.29E-02	3.10E-04	0.00E+00	2.44E-05	0.00E+00	*3.34E-04*	0.92688113	0	0.07311887	0
X	Iron	34922.6859	2.32642302	463.3638	2890.89	3.19	37.7326385	215.5680982	253.3007367	32.8447861	0.067466268	2.86E+02	1.18E+01	6.76E+01	1.03E+01	2.11E-02	*8.97E+01*	0.13183412	0.75317371	0.11475645	0.00023572
X	Lead	380.837025	0.0163928	1.0509	34.73	1.13	0.08557515	2.589779261	2.675354408	0.35817722	0.000475391	3.03E+00	7.57E-02	2.29E+00	3.17E-01	4.21E-04	*2.68E+00*	0.02820532	0.85358381	0.11805418	0.00015669
	Manganese	531.78196	0.50794141	121.8323	299.88	977.00	9.92104808	22.36119788	32.28224597	0.50014093	0.014730301	3.28E+01	1.02E-02	2.29E-02	5.12E-04	1.51E-05	*3.36E-02*	0.30249756	0.68180376	0.01524954	0.00044913
X	Mercury	3.33368988	0.00035585	0.0123	0.12	0.01	0.00099809	0.008707959	0.00970605	0.00313534	1.03197E-05	1.29E-02	1.56E-01	1.36E+00	4.90E-01	1.61E-03	*2.01E+00*	0.07766215	0.67757227	0.2439626	0.00080298
	Nickel	23.468213	0.00256696	0.1027	0.61	77.40	0.00836427	0.04520776	0.053572028	0.02207185	7.4442E-05	7.57E-02	1.08E-04	5.84E-04	2.85E-04	9.62E-07	*9.78E-04*	0.11046557	0.59705178	0.29149951	0.00098314
	Selenium	4.73555853	0.00082395	0.4778	0.41	0.40	0.03890697	0.030341947	0.069248921	0.00445379	2.38945E-05	7.37E-02	9.73E-02	7.59E-02	1.11E-02	5.97E-05	*1.84E-01*	0.52771957	0.41154676	0.06040957	0.0003241
	Silver	0.83660079	0.00035684	0.0471		181.20	0.0038354	0	0.003835396	0.00078682	1.03482E-05	4.63E-03	2.12E-05	0.00E+00	4.34E-06	5.71E-08	*2.56E-05*	0.82792021	0	0.16984599	0.0022338
	Thallium	2.20655244	0.00084048	0.1119		0.07	0.00911355	0	0.009113554	0.00207526	2.43738E-05	1.12E-02	1.23E-01	0.00E+00	2.80E-02	3.29E-04	*1.52E-01*	0.81275299	0	0.18507334	0.00217367
	Vanadium	51.7341544	0.00199374	0.1875	1.80	11.40	0.01526496	0.134231848	0.149496804	0.04865597	5.78185E-05	1.98E-01	1.34E-03	1.18E-02	4.27E-03	5.07E-06	*1.74E-02*	0.07701383	0.67721833	0.24547614	0.0002917
	Zinc	1321.68746	0.42024573	27.8736	51.17	14.50	2.26980206	3.815327283	6.085129341	1.24304706	0.012187126	7.34E+00	1.57E-01	2.63E-01	8.57E-02	8.40E-04	*5.06E-01*	0.30922202	0.51977361	0.16934407	0.00166029

Table E.1-53. Average Exposure Calculations for Mallard (38-Acre)

	Mean Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
	Volatile Organics																				
	2-Butanone	0.0968	0.0025			12	0	0	0	9.104E-05	0.0000725	1.64E-04	0.00E+00	0.00E+00	7.52E-06	5.99E-06	*1.35E-05*	0	0	0.55668446	0.44331554
	Acetone	0.62755	0.0025			1700	0	0	0	0.00059021	0.0000725	6.63E-04	0.00E+00	0.00E+00	3.47E-07	4.26E-08	*3.90E-07*	0	0	0.89060084	0.10939916
	cis-1,2-Dichloroethene	0.1157	0.00058333			3114	0	0	0	0.00010882	1.69167E-05	1.26E-04	0.00E+00	0.00E+00	3.49E-08	5.43E-09	*4.04E-08*	0	0	0.86545512	0.13454488
	Tetrachloroethene	0.07980952	0.0005			14	0	0	0	7.5061E-05	0.0000145	8.96E-05	0.00E+00	0.00E+00	5.36E-06	1.04E-06	*6.40E-06*	0	0	0.83809891	0.16190109
	Trichloroethene	0.12777273	0.0005			7	0	0	0	0.00012017	0.0000145	1.35E-04	0.00E+00	0.00E+00	1.72E-05	2.07E-06	*1.92E-05*	0	0	0.8923296	0.1076704
	Semivolatile Organics																				
	2-Methylnaphthalene	0.156	0.0025			143.70	0	0	0	0.00014672	0.0000725	2.19E-04	0.00E+00	0.00E+00	1.02E-06	5.05E-07	*1.53E-06*	0	0	0.66927898	0.33072102
	Acenaphthylene	0.14968	0.0025			133.30	0	0	0	0.00014077	0.0000725	2.13E-04	0.00E+00	0.00E+00	1.06E-06	5.44E-07	*1.60E-06*	0	0	0.66006177	0.33993823
	Anthracene	0.20202	0.0025			1000.00	0	0	0	0.00019	0.0000725	2.62E-04	0.00E+00	0.00E+00	1.90E-07	7.25E-08	*2.62E-07*	0	0	0.72380932	0.27619068
	Benzo(a)anthracene	0.48714286	0.0025			1.30	0	0	0	0.00045816	0.0000725	5.31E-04	0.00E+00	0.00E+00	3.52E-04	5.58E-05	*4.08E-04*	0	0	0.86337713	0.13662287
	Benzo(a)pyrene	0.60828125	0.0025		0.10	1.30	0	0.007196533	0.007196533	0.00057209	0.0000725	7.84E-03	0.00E+00	5.54E-03	4.40E-04	5.58E-05	*6.03E-03*	0	0.91779384	0.07296004	0.00924613
	Benzo(b)fluoranthene	1.047125	0.0025		0.08	1.30	0	0.005941341	0.005941341	0.00098482	0.0000725	7.00E-03	0.00E+00	4.57E-03	7.58E-04	5.58E-05	*5.38E-03*	0	0.84892525	0.14071562	0.01035912
	Benzo(g,h,i)perylene	0.41965517	0.0025			133.30	0	0	0	0.00039469	0.0000725	4.67E-04	0.00E+00	0.00E+00	2.96E-06	5.44E-07	*3.50E-06*	0	0	0.84481545	0.15518455
	Benzo(k)fluoranthene	0.6301	0.0025		0.13	1.30	0	0.009350313	0.009350313	0.00059261	0.0000725	1.00E-02	0.00E+00	7.19E-03	4.56E-04	5.58E-05	*7.70E-03*	0	0.93359151	0.05916965	0.00723884
	Carbazole	0.28307692	0			133.30	0	0	0	0.00026623	0	2.66E-04	0.00E+00	0.00E+00	2.00E-06	0.00E+00	*2.00E-06*	0	0	1	0
	Chrysene	0.66528571	0.0025		0.08	1.30	0	0.005786342	0.005786342	0.0006257	0.0000725	6.48E-03	0.00E+00	4.45E-03	4.81E-04	5.58E-05	*4.99E-03*	0	0.8923284	0.09649117	0.01118043
	Dibenz(a,h)anthracene	0.24176923	0.0025			1.30	0	0	0	0.00022738	0.0000725	3.00E-04	0.00E+00	0.00E+00	1.75E-04	5.58E-05	*2.31E-04*	0	0	0.75823982	0.24176018
	Dibenzofuran	0.2925	0.0025			133.30	0	0	0	0.0002751	0.0000725	3.48E-04	0.00E+00	0.00E+00	2.06E-06	5.44E-07	*2.61E-06*	0	0	0.79142468	0.20857532
	Fluoranthene	1.163	0.0025		0.05	125.00	0	0.004097104	0.004097104	0.0010938	0.0000725	5.26E-03	0.00E+00	3.28E-05	8.75E-06	5.80E-07	*4.21E-05*	0	0.77841314	0.20781251	0.01377435
	Fluorene	0.18916	0.0025			125.00	0	0	0	0.0001779	0.0000725	2.50E-04	0.00E+00	0.00E+00	1.42E-06	5.80E-07	*2.00E-06*	0	0	0.71046902	0.28953098
	Indeno(1,2,3-cd)pyrene	0.4535625	0.0025		0.19	1.30	0	0.014239247	0.014239247	0.00042658	0.0000725	1.47E-02	0.00E+00	1.10E-02	3.28E-04	5.58E-05	*1.13E-02*	0	0.96613756	0.02894329	0.00491915
	Naphthalene	0.299846	0.0025			140.00	0	0	0	0.00028201	0.0000725	3.55E-04	0.00E+00	0.00E+00	2.01E-06	5.18E-07	*2.53E-06*	0	0	0.79548958	0.20451042
	N-nitrosodiphenylamine	0.322	0.0025			150.00	0	0	0	0.00030284	0.0000725	3.75E-04	0.00E+00	0.00E+00	2.02E-06	4.83E-07	*2.50E-06*	0	0	0.80684231	0.19315769
	Phenanthrene	0.529375	0.0025		0.14	133.30	0	0.010624433	0.010624433	0.00049788	0.0000725	1.12E-02	0.00E+00	7.97E-05	3.74E-06	5.44E-07	*8.40E-05*	0	0.94904986	0.04447393	0.00647621
	Pyrene	0.94330769	0.0025		0.06	133.30	0	0.004309808	0.004309808	0.00088718	0.0000725	5.27E-03	0.00E+00	3.23E-05	6.66E-06	5.44E-07	*3.95E-05*	0	0.81787971	0.16836184	0.01375845
	Pesticides and PCBs																				
	4,4'-DDD	0.02883205	0.00005	0.0006	1.49E-03	8.50	5.2524E-05	0.000111069	0.000163593	2.7117E-05	0.00000145	1.92E-04	6.18E-06	1.31E-05	3.19E-06	1.71E-07	*2.26E-05*	0.27333365	0.57800571	0.14111482	0.00754582
	4,4'-DDE	0.01938119	0.00005	0.0010	8.42E-04	1.90	7.9396E-05	6.27535E-05	0.00014215	1.8228E-05	0.00000145	1.62E-04	4.18E-05	3.30E-05	9.59E-06	7.63E-07	*8.52E-05*	0.49062181	0.38777967	0.11263838	0.00896015
	4,4'-DDT	0.00223743	0.00005	0.0011	3.59E-04	0.00	8.7539E-05	2.6796E-05	0.000114335	2.1043E-06	0.00000145	1.18E-04	3.13E-02	9.57E-03	7.52E-04	5.18E-04	*4.21E-02*	0.7425532	0.22729743	0.01784974	0.01229963
	Aldrin	0.00134393	0.000025	0.0003		0.20	2.4837E-05	0	2.48368E-05	1.264E-06	0.000000725	2.68E-05	1.24E-04	0.00E+00	6.32E-06	3.63E-06	*1.34E-04*	0.92585606	0	0.04711764	0.0270263
	alpha-Chlordane	0.013583	2.1729E-05	0.0006	1.39E-03	2.14	5.0895E-05	0.000103659	0.000154554	1.2775E-05	6.30129E-07	1.68E-04	2.38E-05	4.84E-05	5.97E-06	2.94E-07	*7.85E-05*	0.30302043	0.61716876	0.07605912	0.00375169
	Aroclor 1248	0.08957143	0.0005	0.0025		0.98	0.00020358	0	0.00020358	8.4242E-05	0.0000145	3.02E-04	2.08E-04	0.00E+00	8.60E-05	1.48E-05	*3.08E-04*	0.67338814	0	0.27864975	0.04796212
	Aroclor 1254	0.26955143	0.0005	0.0195		1.50	0.00158792	0	0.001587924	0.00025351	0.0000145	1.86E-03	1.06E-03	0.00E+00	1.69E-04	9.67E-06	*1.24E-03*	0.85559149	0	0.13659575	0.00781276
	Aroclor 1260	0.33606757	0.0005	0.0215	2.10E-02	0.35	0.00175079	0.001565102	0.00331589	0.00031607	0.0000145	3.65E-03	5.07E-03	4.54E-03	9.16E-04	4.20E-05	*1.06E-02*	0.48013338	0.42921119	0.08667897	0.00397646
	beta-BHC	0.00103844	0.000025	0.0003		4.00	2.0765E-05	0	2.07652E-05	9.7665E-07	0.000000725	2.25E-05	5.19E-06	0.00E+00	2.44E-07	1.81E-07	*5.62E-06*	0.92425937	0	0.04347081	0.03226982
	delta-BHC	0.0013284	0.000025	0.0003		1.60	2.0765E-05	0	2.07652E-05	1.2494E-06	0.000000725	2.27E-05	1.30E-05	0.00E+00	7.81E-07	4.53E-07	*1.42E-05*	0.91317494	0	0.05494224	0.03188282
	Endosulfan I	0.00777314	0.000025	0.0006	1.28E-03	10.00	5.0895E-05	9.53826E-05	0.000146278	7.3106E-06	0.000000725	1.54E-04	5.09E-06	9.54E-06	7.31E-07	7.25E-08	*1.54E-05*	0.32981611	0.61811033	0.04737532	0.00469824
	Endosulfan Sulfate	0.0015784	0.00005	0.0009		10.00	7.6953E-05	0	7.69532E-05	1.4845E-06	0.00000145	7.99E-05	7.70E-06	0.00E+00	1.48E-07	1.45E-07	*7.99E-06*	0.96326738	0	0.01858214	0.01815047
	Endrin Aldehyde	0.003165	0.00005	0.0022	9.73E-04	0.30	0.00017915	7.25296E-05	0.00025168	2.9767E-06	0.00000145	2.56E-04	5.97E-04	2.42E-04	9.92E-06	4.83E-06	*8.54E-04*	0.69951487	0.2832006	0.01162282	0.0056617
	gamma-Chlordane	0.02324579	2.1629E-05	0.0003	2.23E-03	2.14	2.0765E-05	0.000166383	0.000187148	2.1863E-05	6.27229E-07	2.10E-04	9.70E-06	7.77E-05	1.02E-05	2.93E-07	*9.80E-05*	0.09905254	0.79366771	0.10428778	0.00299197
	Inorganics																				
	Aluminum	13148.2937	0.38611429	47.9000	2.19E+02	109.70	3.9005928	16.31955601	20.22014881	12.3659702	0.011197314	3.26E+01	3.56E-02	1.49E-01	1.13E-01	1.02E-04	*2.97E-01*	0.11965994	0.50064109	0.37935547	0.0003435
	Antimony	11.6983491	0.00069286	0.0498		0.13	0.00405124	0	0.004051242	0.0110023	2.00929E-05	1.51E-02	3.24E-02	0.00E+00	8.80E-02	1.61E-04	*1.21E-01*	0.26876349	0	0.72990353	0.00133298
	Arsenic	468.418651	0.02458571	3.7500	24.69	5.14	0.30537	1.841013618	2.146383618	0.44054774	0.000712986	2.59E+00	5.94E-02	3.58E-01	8.57E-02	1.39E-04	*5.03E-01*	0.11801081	0.71146316	0.1702505	0.00027553
	Barium	129.620635	0.03734286	8.8000	12.64	208.00	0.7166016	0.942483838	1.659085438	0.12190821	0.001082943	1.78E+00	3.45E-03	4.53E-03	5.86E-04	5.21E-06	*8.57E-03*	0.40211605	0.52886831	0.06840795	0.00060769
	Beryllium	0.937123	6.3786E-05	0.0060		0.66	0.00048859	0	0.000488592	0.00088136	1.84979E-06	1.37E-03	7.40E-04	0.00E+00	1.34E-03	2.80E-06	*2.08E-03*	0.35616699	0	0.64248458	0.00134843
	Cadmium	8.9811825	0.00043	0.0570	0.96	1.45	0.00464162	0.071742672	0.076384296	0.0084468	0.00001247	8.48E-02	3.20E-03	4.95E-02	5.83E-03	8.60E-06	*5.85E-02*	0.05470802	0.84558763	0.09955737	0.00014698
X	Chromium	2214.13889	0.02578571	0.8950	41.38	1.00	0.07288164	3.085387476	3.158269116	2.08239763	0.000747786	5.24E+00	7.29E-02	3.09E+00	2.08E+00	7.48E-04	*5.24E+00*	0.01390496	0.5886555	0.39729688	0.00014267
	Cobalt	19.4400794	0.00146857	0.4850	1.73	5.00	0.03949452	0.128749264	0.168243784	0.01828339	4.25885E-05	1.87E-01	7.90E-03	2.57E-02	3.66E-03	8.52E-06	*3.73E-02*	0.21168767	0.69008643	0.09799763	0.00022827
	Copper	579.392857	0.02154286	54.3500	29.34	47.00	4.4258292	2.188180668	6.614009868	0.54491898	0.000624743	7.16E+00	9.42E-02	4.66E-02	1.16E-02	1.33E-05	*1.52E-01*	0.61817111	0.30563088	0.07611075	8.726E-05
	Cyanide	1.3512766	0.0025	0.2675		68.70		0	0	0.00127088		1.27E-03	0.00E+00	0.00E+00	1.85E-05	0.00E+00	*1.85E-05*	0	0	1	0
X	Iron	36919.4444	2.401	577.5000	3056.18	3.19	47.02698	227.8935374	274.9205174	34.7227375	0.069629	3.10E+02	1.47E+01	7.14E+01	1.09E+01	2.18E-02	*9.71E+01*	0.15184057	0.73582195	0.11211267	0.00022482
X	Lead	524.423016	0.01307286	0.5150	47.82	1.13	0.04193748	3.566196983	3.608134463	0.49321985	0.000379113	4.10E+00	3.71E-02	3.16E+00	4.36E-01	3.35E-04	*3.63E+00*	0.01022433	0.86943656	0.12024668	9.2427E-05
	Manganese	615.686508	0.46971429	88.7000	347.19	977.00	7.2230184	25.88934726	33.11236566	0.57905316	0.013621714	3.37E+01	7.39E-03	2.65E-02	5.93E-04	1.39E-05	*3.45E-02*	0.21430084	0.768115	0.01718002	0.00040414
X	Mercury	3.3087704	0.00020393	0.0090	0.12	0.01	0.00073289	0.008642866	0.009375754	0.0031119	5.91393E-06	1.25E-02	1.15E-01	1.35E+00	4.86E-01	9.24E-04	*1.95E+00*	0.05866123	0.69178534	0.24908008	0.00047336
	Nickel	27.718254	0.00284286	0.0675	0.72	77.40	0.00549666	0.053394785	0.058891445	0.02606902	8.24429E-05	8.50E-02	7.10E-05	6.90E-04	3.37E-04	1.07E-06	*1.10E-03*	0.06463396	0.62785701	0.3065396	0.00096943
	Selenium	4.8625203	0.00085714	0.3300	0.42	0.40	0.02687256	0.031155424	0.058027984	0.0045732	2.48571E-05	6.26E-02	6.72E-02	7.79E-02	1.14E-02	6.21E-05	*1.57E-01*	0.42909562	0.49748352	0.07302394	0.00039691
	Silver	0.6898182	0.00025	0.0370		181.20	0.00301298	0	0.003012984	0.00064877	0.00000725	3.67E-03	1.66E-05	0.00E+00	3.58E-06	4.00E-08	*2.02E-05*	0.82119853	0	0.17682546	0.00197601
	Thallium	1.5743287	0.00077857	0.0675		0.07	0.00549666	0	0.00549666	0.00148066	2.25786E-05	7.00E-03	7.43E-02	0.00E+00	2.00E-02	3.05E-04	*9.46E-02*	0.78524895	0	0.21152549	0.00322556
	Vanadium	55.4420635	0.00187893	0.1375	1.93	11.40	0.0111969	0.143852561	0.155049461	0.05214326	5.44889E-05	2.07E-01	9.82E-04	1.26E-02	4.57E-03	4.78E-06	*1.82E-02*	0.05402678	0.69411096	0.25159934	0.00026292
	Zinc	1672.54048	0.12778571	28.7500	64.75	14.50	2.34117	4.828137885	7.169307885	1.57302432	0.003705786	8.75E+00	1.61E-01	3.33E-01	1.08E-01	2.56E-04	*6.03E-01*	0.26768349	0.55203715	0.17985565	0.00042371

Table E.1-54. Maximum Exposure Calculations for Mallard (38-Acre)

	Maximum Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
	Volatile Organics																				
	2-Butanone	0.1370232	0			12	0	0	0	0.00012887	0	1.29E-04	0.00E+00	0.00E+00	1.07E-05	0.00E+00	*1.07E-05*	0	0	1	0
	Acetone	1.36406141	0			1700	0	0	0	0.0012829	0	1.28E-03	0.00E+00	0.00E+00	7.55E-07	0.00E+00	*7.55E-07*	0	0	1	0
	cis-1,2-Dichloroethene	0.20927928	0.00075125			3114	0	0	0	0.00019683	2.17864E-05	2.19E-04	0.00E+00	0.00E+00	6.32E-08	7.00E-09	*7.02E-08*	0	0	0.90034301	0.09965699
	Tetrachloroethene	0.041	0			14	0	0	0	3.8561E-05	0	3.86E-05	0.00E+00	0.00E+00	2.75E-06	0.00E+00	*2.75E-06*	0	0	1	0
	Trichloroethene	1.0308958	0			7	0	0	0	0.00096956	0	9.70E-04	0.00E+00	0.00E+00	1.39E-04	0.00E+00	*1.39E-04*	0	0	1	0
	Semivolatile Organics																				
	2-Methylnaphthalene	0.14	0			143.70	0	0	0	0.00013167	0	1.32E-04	0.00E+00	0.00E+00	9.16E-07	0.00E+00	*9.16E-07*	0	0	1	0
	Acenaphthylene	0.038	0			133.30	0	0	0	3.5739E-05	0	3.57E-05	0.00E+00	0.00E+00	2.68E-07	0.00E+00	*2.68E-07*	0	0	1	0
	Anthracene	0.24924676	0			1000.00	0	0	0	0.00023442	0	2.34E-04	0.00E+00	0.00E+00	2.34E-07	0.00E+00	*2.34E-07*	0	0	1	0
	Benzo(a)anthracene	0.63369711	0			1.30	0	0	0	0.00059599	0	5.96E-04	0.00E+00	0.00E+00	4.58E-04	0.00E+00	*4.58E-04*	0	0	1	0
	Benzo(a)pyrene	0.8214214	0		0.13	1.30	0	0.009718179	0.009718179	0.00077255	0	1.05E-02	0.00E+00	7.48E-03	5.94E-04	0.00E+00	*8.07E-03*	0	0.92635907	0.07364093	0
	Benzo(b)fluoranthene	1.44582339	0		0.11	1.30	0	0.008203538	0.008203538	0.0013598	0	9.56E-03	0.00E+00	6.31E-03	1.05E-03	0.00E+00	*7.36E-03*	0	0.85781143	0.14218857	0
	Benzo(g,h,i)perylene	0.5183468	0			133.30	0	0	0	0.00048751	0	4.88E-04	0.00E+00	0.00E+00	3.66E-06	0.00E+00	*3.66E-06*	0	0	1	0
	Benzo(k)fluoranthene	0.79430292	0		0.16	1.30	0	0.011786988	0.011786988	0.00074704	0	1.25E-02	0.00E+00	9.07E-03	5.75E-04	0.00E+00	*9.64E-03*	0	0.94039891	0.05960109	0
	Carbazole	0.17	0			133.30	0	0	0	0.00015989	0	1.60E-04	0.00E+00	0.00E+00	1.20E-06	0.00E+00	*1.20E-06*	0	0	1	0
	Chrysene	0.87724619	0		0.10	1.30	0	0.007629875	0.007629875	0.00082505	0	8.45E-03	0.00E+00	5.87E-03	6.35E-04	0.00E+00	*6.50E-03*	0	0.90241782	0.09758218	0
	Dibenz(a,h)anthracene	0.28325985	0			1.30	0	0	0	0.00026641	0	2.66E-04	0.00E+00	0.00E+00	2.05E-04	0.00E+00	*2.05E-04*	0	0	1	0
	Dibenzofuran	0.3434094	0			133.30	0	0	0	0.00032298	0	3.23E-04	0.00E+00	0.00E+00	2.42E-06	0.00E+00	*2.42E-06*	0	0	1	0
	Fluoranthene	1.50226366	0		0.07	125.00	0	0.005292288	0.005292288	0.00141288	0	6.71E-03	0.00E+00	4.23E-05	1.13E-05	0.00E+00	*5.36E-05*	0	0.78928503	0.21071497	0
	Fluorene	0.23365616	0			125.00	0	0	0	0.00021975	0	2.20E-04	0.00E+00	0.00E+00	1.76E-06	0.00E+00	*1.76E-06*	0	0	1	0
	Indeno(1,2,3-cd)pyrene	0.56537612	0		0.24	1.30	0	0.01774955	0.01774955	0.00053174	0	1.83E-02	0.00E+00	1.37E-02	4.09E-04	0.00E+00	*1.41E-02*	0	0.97091363	0.02908637	0
	Naphthalene	0.47998769	0.0031184			140.00	0	0	0	0.00045143	9.04337E-05	5.42E-04	0.00E+00	0.00E+00	3.22E-06	6.46E-07	*3.87E-06*	0	0	0.83310567	0.16689433
	N-nitrosodiphenylamine	0.38667356	0			150.00	0	0	0	0.00036367	0	3.64E-04	0.00E+00	0.00E+00	2.42E-06	0.00E+00	*2.42E-06*	0	0	1	0
	Phenanthrene	0.6685545	0		0.18	133.30	0	0.013417734	0.013417734	0.00062878	0	1.40E-02	0.00E+00	1.01E-04	4.72E-06	0.00E+00	*1.05E-04*	0	0.95523617	0.04476383	0
	Pyrene	1.21055165	0		0.07	133.30	0	0.005530799	0.005530799	0.00113852	0	6.67E-03	0.00E+00	4.15E-05	8.54E-06	0.00E+00	*5.00E-05*	0	0.82928944	0.17071056	0
	Pesticides and PCBs																				
	4,4'-DDD	0.12350422	0	0.0000	6.38E-03	8.50	0	0.000475773	0.000475773	0.00011616	0	5.92E-04	0.00E+00	5.60E-05	1.37E-05	0.00E+00	*6.96E-05*	0	0.8037675	0.1962325	0
	4,4-DDE	0.07376135	0	0.0000	3.20E-03	1.90	0	0.000238829	0.000238829	6.9373E-05	0	3.08E-04	0.00E+00	1.26E-04	3.65E-05	0.00E+00	*1.62E-04*	0	0.77491144	0.22508856	0
	4,4'-DDT	0.0028409	0	0.0013	4.56E-04	0.00	0.00010586	3.40234E-05	0.000139885	2.6719E-06	0	1.43E-04	3.78E-02	1.22E-02	9.54E-04	0.00E+00	*5.09E-02*	0.74259229	0.23866525	0.01874246	0
	Aldrin	0.00758682	0	0.0003		0.20	2.5244E-05	0	2.52439E-05	7.1354E-06	0	3.24E-05	1.26E-04	0.00E+00	3.57E-05	0.00E+00	*1.62E-04*	0.77963087	0	0.22036913	0
	alpha-Chlordane	0.04626026	0.0000021	0.0000	4.73E-03	2.14	0	0.000353036	0.000353036	4.3508E-05	6.09E-08	3.97E-04	0.00E+00	1.65E-04	2.03E-05	2.85E-08	*1.85E-04*	0	0.89014595	0.10970049	0.00015355
	Aroclor 1248	0.13264543	0	0.0000		0.98	0	0	0	0.00012475	0	1.25E-04	0.00E+00	0.00E+00	1.27E-04	0.00E+00	*1.27E-04*	0	0	1	0
	Aroclor 1254	1.2410479	0	0.0240		1.50	0.00195437	0	0.001954368	0.00116721	0	3.12E-03	1.30E-03	0.00E+00	7.78E-04	0.00E+00	*2.08E-03*	0.62608424	0	0.37391576	0
	Aroclor 1260	1.29634725	0	0.0280	8.10E-02	0.35	0.0022801	0.006037226	0.008317322	0.00121921	0	9.54E-03	6.61E-03	1.75E-02	3.53E-03	0.00E+00	*2.76E-02*	0.23909057	0.63306275	0.12784668	0
	beta-BHC	0.00257751	0	0.0000		4.00	0	0	0	2.4241E-06	0	2.42E-06	0.00E+00	0.00E+00	6.06E-07	0.00E+00	*6.06E-07*	0	0	1	0
	delta-BHC	0.00718976	0	0.0000		1.60	0	0	0	6.762E-06	0	6.76E-06	0.00E+00	0.00E+00	4.23E-06	0.00E+00	*4.23E-06*	0	0	1	0
	Endosulfan I	0.03627076	0	0.0000	5.97E-03	10.00	0	0.000445071	0.000445071	3.4113E-05	0	4.79E-04	0.00E+00	4.45E-05	3.41E-06	0.00E+00	*4.79E-05*	0	0.9288109	0.0711891	0
	Endosulfan Sulfate	0.00072	0	0.0014		10.00	0.000114	0	0.000114005	6.7716E-07	0	1.15E-04	1.14E-05	0.00E+00	6.77E-08	0.00E+00	*1.15E-05*	0.99409532	0	0.00590468	0
	Endrin Aldehyde	0.00467582	0	0.0029	1.44E-03	0.30	0.00023615	0.000107152	0.000343305	4.3976E-06	0	3.48E-04	7.87E-04	3.57E-04	1.47E-05	0.00E+00	*1.16E-03*	0.67918137	0.308171	0.01264763	0
	gamma-Chlordane	0.02811984	0.0000014	0.0000	2.70E-03	2.14	0	0.000201269	0.000201269	2.6447E-05	4.06E-08	2.28E-04	0.00E+00	9.41E-05	1.24E-05	1.90E-08	*1.06E-04*	0	0.8837033	0.11611844	0.00017826
	Inorganics																				
	Aluminum	14244.6095	2.18	49.1000	2.37E+02	109.70	3.9983112	17.68029436	21.67860556	13.3970552	0.06322	3.51E+01	3.64E-02	1.61E-01	1.22E-01	5.76E-04	*3.20E-01*	0.11378596	0.50315474	0.38126016	0.00179915
	Antimony	14.1423531	0.00095462	0.0000		0.13	0	0	0	0.01330088	2.7684E-05	1.33E-02	0.00E+00	0.00E+00	1.06E-01	2.21E-04	*1.07E-01*	0	0	0.99792296	0.00207704
	Arsenic	771.378513	0.04632573	4.4000	40.66	5.14	0.3583008	3.031728873	3.390029673	0.72548149	0.001343446	4.12E+00	6.97E-02	5.90E-01	1.41E-01	2.61E-04	*8.01E-01*	0.08703266	0.73641874	0.17622228	0.00032633
	Barium	129.86617	0.04346373	0.0000	12.66	208.00	0	0.944269149	0.944269149	0.12213913	0.001260448	1.07E+00	0.00E+00	4.54E-03	5.87E-04	6.06E-06	*5.13E-03*	0	0.88442147	0.11439797	0.00118056
	Beryllium	1.0287972	0.00015051	0.0000		0.66	0	0	0	0.00096758	4.36485E-06	9.72E-04	0.00E+00	0.00E+00	1.47E-03	6.61E-06	*1.47E-03*	0	0	0.99550917	0.00449083
	Cadmium	12.6728087	0.0025	0.0640	1.36	1.45	0.00521165	0.101231787	0.106443435	0.01191878	0.0000725	1.18E-01	3.59E-03	6.98E-02	8.22E-03	5.00E-05	*8.17E-02*	0.0440044	0.85474761	0.10063584	0.00061215
X	Chromium	3872.47212	0.05886398	1.0000	72.37	1.00	0.081432	5.396263543	5.477695543	3.64206002	0.001707055	9.12E+00	8.14E-02	5.40E+00	3.64E+00	1.71E-03	*9.12E+00*	0.00892752	0.59160069	0.39928465	0.00018715
	Cobalt	21.5200378	0.0039065	0.5600	1.91	5.00	0.04560192	0.142524574	0.188126494	0.0202396	0.000113289	2.08E-01	9.12E-03	2.85E-02	4.05E-03	2.27E-05	*4.17E-02*	0.21873588	0.68363871	0.097082	0.0005434
	Copper	663.012465	0.07123821	59.6000	33.58	47.00	4.8533472	2.503985061	7.357332261	0.62356322	0.002065908	7.98E+00	1.03E-01	5.33E-02	1.33E-02	4.40E-05	*1.70E-01*	0.60796326	0.31366619	0.07811177	0.00025879
	Cyanide	1.74540333	0	0.0000		68.70		0	0	0.00164155	0	1.64E-03	0.00E+00	0.00E+00	2.39E-05	0.00E+00	*2.39E-05*	0	0	1	0
X	Iron	42768.7781	6.8492234	645.0000	3540.39	3.19	52.52364	263.9998589	316.5234989	40.2240358	0.198627478	3.57E+02	1.65E+01	8.28E+01	1.26E+01	6.23E-02	*1.12E+02*	0.14714723	0.73960694	0.11268936	0.00055646
X	Lead	593.514123	0.0759	0.5500	54.13	1.13	0.0447876	4.036032385	4.080819985	0.55820003	0.0022011	4.64E+00	3.96E-02	3.57E+00	4.94E-01	1.95E-03	*4.11E+00*	0.00964996	0.86960571	0.12027008	0.00047425
	Manganese	696.184863	0.57916724	112.0000	392.58	977.00	9.120384	29.27426774	38.39465174	0.65476186	0.01679585	3.91E+01	9.34E-03	3.00E-02	6.70E-04	1.72E-05	*4.00E-02*	0.23345966	0.74935009	0.01676031	0.00042993
X	Mercury	5.31900239	0.00060956	0.0000	0.19	0.01	0	0.01389381	0.01389381	0.00500252	1.76772E-05	1.89E-02	0.00E+00	2.17E+00	7.82E-01	2.76E-03	*2.96E+00*	0	0.73457774	0.26448765	0.00093461
	Nickel	30.389124	0.00393951	0.0000	0.79	77.40	0	0.058539789	0.058539789	0.02858097	0.000114246	8.72E-02	0.00E+00	7.56E-04	3.69E-04	1.48E-06	*1.13E-03*	0	0.67105846	0.32763191	0.00130963
	Selenium	5.5301058	0.0009109	0.3500	0.48	0.40	0.0285012	0.035432816	0.063934016	0.00520106	2.64161E-05	6.92E-02	7.13E-02	8.86E-02	1.30E-02	6.60E-05	*1.73E-01*	0.41209634	0.51231997	0.07520173	0.00038195
	Silver	1.03903029	0.00031272	0.0560		181.20	0.00456019	0	0.004560192	0.00097721	9.06876E-06	5.55E-03	2.52E-05	0.00E+00	5.39E-06	5.00E-08	*3.06E-05*	0.82217934	0	0.17618561	0.00163505
	Thallium	3.22618927	0.00081441	0.0000		0.07	0	0	0	0.00303423	2.36179E-05	3.06E-03	0.00E+00	0.00E+00	4.10E-02	3.19E-04	*4.13E-02*	0	0	0.99227631	0.00772369
	Vanadium	60.4198451	0.00609555	0.0000	2.10	11.40	0	0.156768145	0.156768145	0.05682486	0.000176771	2.14E-01	0.00E+00	1.38E-02	4.98E-03	1.55E-05	*1.88E-02*	0	0.73335036	0.26582272	0.00082692
	Zinc	1831.89785	0.626	29.1000	70.92	14.50	2.3696712	5.288156285	7.657827485	1.72289993	0.018154	9.40E+00	1.63E-01	3.65E-01	1.19E-01	1.25E-03	*6.48E-01*	0.25212268	0.56263677	0.18330904	0.00193151

	Mean Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
	Volatile Organics																				
	2-Butanone	0.0512619	0.00183333			12.10	0	0	0	4.82118E-05	5.31667E-05	1.01E-04	0.00E+00	0.00E+00	3.98E-06	4.39E-06	*8.38E-06*	0	0	0.47556264	0.52443736
	Acetone	0.17427273	0.0025			1700.00	0	0	0	0.000163904	0.0000725	2.36E-04	0.00E+00	0.00E+00	9.64E-08	4.26E-08	*1.39E-07*	0	0	0.69332095	0.30667905
	cis-1,2-Dichloroethene	0.00988889	0.00072222			3114.00	0	0	0	9.3005E-06	2.09444E-05	3.02E-05	0.00E+00	0.00E+00	2.99E-09	6.73E-09	*9.71E-09*	0	0	0.30750594	0.69249406
	Tetrachloroethene	0.00995652	0.00072222			14.00	0	0	0	9.36411E-06	2.09444E-05	3.03E-05	0.00E+00	0.00E+00	6.69E-07	1.50E-06	*2.16E-06*	0	0	0.30895928	0.69104072
	Trichloroethene	0.00843478	0.00072222			7.00	0	0	0	7.93291E-06	2.09444E-05	2.89E-05	0.00E+00	0.00E+00	1.13E-06	2.99E-06	*4.13E-06*	0	0	0.2747105	0.7252895
	Semivolatile Organics																				
	2-Methylnaphthalene	0.267	0.00238889			143.70	0	0	0	0.000251114	6.92778E-05	3.20E-04	0.00E+00	0.00E+00	1.75E-06	4.82E-07	*2.23E-06*	0	0	0.78377134	0.21622866
	Acenaphthylene	0.30529167	0.00238889			133.30	0	0	0	0.000287127	6.92778E-05	3.56E-04	0.00E+00	0.00E+00	2.15E-06	5.20E-07	*2.67E-06*	0	0	0.80562041	0.19437959
	Anthracene	0.41358333	0.00238889			1000.00	0	0	0	0.000388975	6.92778E-05	4.58E-04	0.00E+00	0.00E+00	3.89E-07	6.93E-08	*4.58E-07*	0	0	0.84882195	0.15117805
	Benzo(a)anthracene	1.15166667	0.00238889			1.30	0	0	0	0.001083143	6.92778E-05	1.15E-03	0.00E+00	0.00E+00	8.33E-04	5.33E-05	*8.86E-04*	0	0	0.93988497	0.06011503
	Benzo(a)pyrene	1.065	0.00238889		0.17	1.30	0	0.01259994	0.01259994	0.001001633	6.92778E-05	1.37E-02	0.00E+00	9.69E-03	7.70E-04	5.33E-05	*1.05E-02*	0	0.92166469	0.07326775	0.00506755
	Benzo(b)fluoranthene	1.45041667	0.00238889		0.11	1.30	0	0.0082296	0.0082296	0.001364117	6.92778E-05	9.66E-03	0.00E+00	6.33E-03	1.05E-03	5.33E-05	*7.43E-03*	0	0.85166144	0.14116917	0.00716939
	Benzo(g,h,i)perylene	0.47479167	0.00238889			133.30	0	0	0	0.000446542	6.92778E-05	5.16E-04	0.00E+00	0.00E+00	3.35E-06	5.20E-07	*3.87E-06*	0	0	0.86569372	0.13430628
	Benzo(k)fluoranthene	1.39729167	0.00238889		0.28	1.30	0	0.020734986	0.020734986	0.001314153	6.92778E-05	2.21E-02	0.00E+00	1.59E-02	1.01E-03	5.33E-05	*1.70E-02*	0	0.93745345	0.05941442	0.00313213
	Carbazole	0.33172727	0.00225			133.30	0	0	0	0.000311989	0.00006525	3.77E-04	0.00E+00	0.00E+00	2.34E-06	4.89E-07	*2.83E-06*	0	0	0.82703296	0.17296704
	Chrysene	1.31375	0.00238889		0.15	1.30	0	0.01142638	0.01142638	0.001235582	6.92778E-05	1.27E-02	0.00E+00	8.79E-03	9.50E-04	5.33E-05	*9.79E-03*	0	0.89750726	0.09705118	0.00544156
	Dibenz(a,h)anthracene	0.28333333	0.00238889			1.30	0	0	0	0.000266475	6.92778E-05	3.36E-04	0.00E+00	0.00E+00	2.05E-04	5.33E-05	*2.58E-04*	0	0	0.79366432	0.20633568
	Dibenzofuran	0.32272727	0.00238889			133.30	0	0	0	0.000303525	6.92778E-05	3.73E-04	0.00E+00	0.00E+00	2.28E-06	5.20E-07	*2.80E-06*	0	0	0.81417043	0.18582957
	Fluoranthene	2.48379167	0.00238889		0.12	125.00	0	0.008750088	0.008750088	0.002336006	6.92778E-05	1.12E-02	0.00E+00	7.00E-05	1.87E-05	5.54E-07	*8.92E-05*	0	0.78438336	0.20940638	0.00621026
	Fluorene	0.39354167	0.00238889			125.00	0	0	0	0.000370126	6.92778E-05	4.39E-04	0.00E+00	0.00E+00	2.96E-06	5.54E-07	*3.52E-06*	0	0	0.84233684	0.15766316
	Indeno(1,2,3-cd)pyrene	0.634375	0.00238889		0.27	1.30	0	0.019915717	0.019915717	0.00059663	6.92778E-05	2.06E-02	0.00E+00	1.53E-02	4.59E-04	5.33E-05	*1.58E-02*	0	0.96764553	0.02898846	0.003366
	Naphthalene	0.280417	0.00238889			140.00	0	0	0	0.000263732	6.92778E-05	3.33E-04	0.00E+00	0.00E+00	1.88E-06	4.95E-07	*2.38E-06*	0	0	0.79196485	0.20803515
	N-nitrosodiphenylamine	0.33159091	0.00238889			150.00	0	0	0	0.000311861	6.92778E-05	3.81E-04	0.00E+00	0.00E+00	2.08E-06	4.62E-07	*2.54E-06*	0	0	0.81823489	0.18176511
	Phenanthrene	1.51708333	0.00238889		0.41	133.30	0	0.03044751	0.03044751	0.001426817	6.92778E-05	3.19E-02	0.00E+00	2.28E-04	1.07E-05	5.20E-07	*2.40E-04*	0	0.9531645	0.04466675	0.00216875
	Pyrene	1.97566667	0.00238889		0.12	133.30	0	0.009026476	0.009026476	0.001858115	6.92778E-05	1.10E-02	0.00E+00	6.77E-05	1.39E-05	5.20E-07	*8.22E-05*	0	0.8240446	0.1696309	0.0063245
	Pesticides and PCBs																				
	4,4'-DDD	0.047775	2.9811E-05	0.0008	2.47E-03	8.50	6.3924E-05	0.000184043	0.000247967	4.49324E-05	8.64522E-07	2.94E-04	7.52E-06	2.17E-05	5.29E-06	1.02E-07	*3.46E-05*	0.21760373	0.62649927	0.15295408	0.00294291
	4,4'-DDE	0.03051417	2.9811E-05	0.0047	1.32E-03	1.90	0.00037866	9.88005E-05	0.000477459	2.86986E-05	8.64522E-07	5.07E-04	1.99E-04	5.20E-05	1.51E-05	4.55E-07	*2.67E-04*	0.74682861	0.19486411	0.05660219	0.0017051
	4,4'-DDT	0.02280167	2.9811E-05	0.0005	3.66E-03	0.00	3.9902E-05	0.000273079	0.00031298	2.1445E-05	8.64522E-07	3.35E-04	1.43E-02	9.75E-02	7.66E-03	3.09E-04	*1.20E-01*	0.1190065	0.8144556	0.06395947	0.00257843
	Aldrin	0.00290188	1.5922E-05	0.0003		0.20	2.0562E-05	0	2.05616E-05	2.72921E-06	4.61744E-07	2.38E-05	1.03E-04	0.00E+00	1.36E-05	2.31E-06	*1.19E-04*	0.86565826	0	0.11490197	0.01943977
	alpha-Chlordane	0.00422313	1.5922E-05	0.0003	4.32E-04	2.14	2.0562E-05	3.22289E-05	5.27905E-05	3.97185E-06	4.61744E-07	5.72E-05	9.61E-06	1.51E-05	1.86E-06	2.16E-07	*2.67E-05*	0.35931701	0.56320522	0.06940872	0.00806905
	Aroclor 1248	0.06978125	0.000288	0.0025		0.98	0.00020358	0	0.00020358	6.56293E-05	0.000008352	2.78E-04	2.08E-04	0.00E+00	6.70E-05	8.52E-06	*2.83E-04*	0.73345969	0	0.23644966	0.03009065
	Aroclor 1254	0.05549792	0.000288	0.0025		1.50	0.00020358	0	0.00020358	5.21958E-05	0.000008352	2.64E-04	1.36E-04	0.00E+00	3.48E-05	5.57E-06	*1.76E-04*	0.77076327	0	0.19761567	0.03162106
	Aroclor 1260	0.06565625	0.000288	0.0052	4.10E-03	0.35	0.00041937	0.000305768	0.000725143	6.17497E-05	0.000008352	7.95E-04	1.22E-03	8.86E-04	1.79E-04	2.42E-05	*2.31E-03*	0.52735322	0.38449566	0.07764869	0.01050243
	beta-BHC	0.00287563	1.5922E-05	0.0003		4.00	2.0562E-05	0	2.05616E-05	2.70453E-06	4.61744E-07	2.37E-05	5.14E-06	0.00E+00	6.76E-07	1.15E-07	*5.93E-06*	0.86655895	0	0.11398106	0.01945999
	delta-BHC	0.00294229	1.5922E-05	0.0003		1.60	2.0562E-05	0	2.05616E-05	2.76723E-06	4.61744E-07	2.38E-05	1.29E-05	0.00E+00	1.73E-06	2.89E-07	*1.49E-05*	0.86427513	0	0.11631616	0.01940871
	Endosulfan I	0.00681396	1.5922E-05	0.0003	1.12E-03	10.00	2.0562E-05	8.36127E-05	0.000104174	6.40853E-06	4.61744E-07	1.11E-04	2.06E-06	8.36E-06	6.41E-07	4.62E-08	*1.11E-05*	0.1851652	0.75296528	0.05771134	0.00415819
	Endosulfan Sulfate	0.0056075	2.9811E-05	0.0005		10.00	3.9902E-05	0	3.99017E-05	5.27385E-06	8.64522E-07	4.60E-05	3.99E-06	0.00E+00	5.27E-07	8.65E-08	*4.60E-06*	0.86667315	0	0.11454925	0.0187776
	Endrin Aldehyde	0.0070575	2.9811E-05	0.0005	2.17E-03	0.30	3.9902E-05	0.000161731	0.000201632	6.63758E-06	8.64522E-07	2.09E-04	1.33E-04	5.39E-04	2.21E-05	2.88E-06	*6.97E-04*	0.19079446	0.77333338	0.03173834	0.00413381
	gamma-Chlordane	0.00307271	1.3333E-05	0.0003	2.95E-04	2.14	2.0562E-05	2.1993E-05	4.25546E-05	2.88988E-06	3.86666E-07	4.58E-05	9.61E-06	1.03E-05	1.35E-06	1.81E-07	*2.14E-05*	0.44863741	0.4798709	0.06305494	0.00843674
	Inorganics																				
	Aluminum	7851.8	0.35131111	9.7500	1.31E+02	109.70	0.793962	9.74559082	10.53955282	7.3846179	0.010188022	1.79E+01	7.24E-03	8.88E-02	6.73E-02	9.29E-05	*1.63E-01*	0.04427044	0.54340336	0.41175812	0.00056807
	Antimony	0.9958	0.00437222	0.0480		0.13	0.00390874	0	0.003908736	0.00093655	0.000126794	4.97E-03	3.13E-02	0.00E+00	7.49E-03	1.01E-03	*3.98E-02*	0.78613693	0	0.18836178	0.02550129
	Arsenic	15.85	0.0031	0.1925	0.84	5.14	0.01567566	0.062294842	0.077970502	0.014906925	0.0000899	9.30E-02	3.05E-03	1.21E-02	2.90E-03	1.75E-05	*1.81E-02*	0.16861472	0.67007242	0.16034585	0.00096701
	Barium	51.744	0.03224444	15.4000	5.05	208.00	1.2540528	0.376235495	1.630288295	0.048665232	0.000935089	1.68E+00	6.03E-03	1.81E-03	2.34E-04	4.50E-06	*8.08E-03*	0.74650949	0.22396455	0.02896932	0.00055664
	Beryllium	0.5106	0.0000765	0.0044		0.66	0.0003581	0	0.000358097	0.000480219	2.2185E-06	8.41E-04	5.43E-04	0.00E+00	7.28E-04	3.36E-06	*1.27E-03*	0.42603486	0	0.57132575	0.00263939
	Cadmium	1.1731396	0.000215	0.0800	0.13	1.45	0.00651456	0.009371168	0.015885728	0.001103338	0.000006235	1.70E-02	4.49E-03	6.46E-03	7.61E-04	4.30E-06	*1.17E-02*	0.38331537	0.55139759	0.06492017	0.00036687
	Chromium	91.164	0.00221556	0.1800	1.70	1.00	0.01465776	0.127036414	0.141694174	0.085739742	6.42511E-05	2.27E-01	1.47E-02	1.27E-01	8.57E-02	6.43E-05	*2.27E-01*	0.06443023	0.55840632	0.37688102	0.00028242
	Cobalt	7.9364	0.00142778	0.4200	0.70	5.00	0.03420144	0.052561805	0.086763245	0.007464184	4.14056E-05	9.43E-02	6.84E-03	1.05E-02	1.49E-03	8.28E-06	*1.89E-02*	0.3628075	0.55757351	0.07917977	0.00043923
	Copper	59.638	0.00285833	20.1000	3.02	47.00	1.6367832	0.225233565	1.862016765	0.056089539	8.28917E-05	1.92E+00	3.48E-02	4.79E-03	1.19E-03	1.76E-06	*4.08E-02*	0.85329602	0.11741989	0.02924088	4.3213E-05
	Cyanide	0.3942854	0.0025	0.2175		68.70	0.01771146	0	0.01771146	0.000370825	0.0000725	1.82E-02	2.58E-04	0.00E+00	5.40E-06	1.06E-06	*2.64E-04*	0.9755808	0	0.02042577	0.00399344
X	Iron	15732.8	2.87833333	66.3500	1302.36	3.19	5.4030132	97.11423071	102.5172439	14.7966984	0.083471667	1.17E+02	1.69E+00	3.04E+01	4.64E+00	2.62E-02	*3.68E+01*	0.04602327	0.82722632	0.12603939	0.00071102
X	Lead	192.668	0.00780444	0.0333	17.57	1.13	0.00270761	1.310186661	1.312894275	0.181204254	0.000226329	1.49E+00	2.40E-03	1.16E+00	1.60E-01	2.00E-04	*1.32E+00*	0.00181193	0.87677499	0.12126162	0.00015146
	Manganese	365.708	0.48626667	106.0000	206.23	977.00	8.631792	15.37786079	24.00965279	0.343948374	0.014101733	2.44E+01	8.83E-03	1.57E-02	3.52E-04	1.44E-05	*2.49E-02*	0.35423085	0.63107552	0.01411493	0.00057871
	Mercury	0.1919688	6.6167E-05	0.0055	0.01	0.01	0.00044788	0.000501443	0.000949319	0.000180547	1.91883E-06	1.13E-03	7.00E-02	7.84E-02	2.82E-02	3.00E-04	*1.77E-01*	0.39572542	0.44305533	0.15952384	0.00169541
	Nickel	14.024	0.00153222	0.1600	0.36	77.40	0.01302912	0.027014994	0.040044114	0.013189572	4.44344E-05	5.33E-02	1.68E-04	3.49E-04	1.70E-04	5.74E-07	*6.88E-04*	0.24454917	0.50705606	0.24756076	0.00083401
	Selenium	0.8212	0.00086667	0.1600	0.07	0.40	0.01302912	0.005261641	0.018290761	0.000772339	2.51333E-05	1.91E-02	3.26E-02	1.32E-02	1.93E-03	6.28E-05	*4.77E-02*	0.68257341	0.27564839	0.0404615	0.00131669
	Silver	0.4802083	0.00028444	0.1550		181.20	0.01262196	0	0.01262196	0.000451636	8.24889E-06	1.31E-02	6.97E-05	0.00E+00	2.49E-06	4.55E-08	*7.22E-05*	0.96484557	0	0.03452387	0.00063056
	Thallium	0.5070831	0.00068333	0.0650		0.07	0.00529308	0	0.00529308	0.000476912	1.98167E-05	5.79E-03	7.15E-02	0.00E+00	6.44E-03	2.68E-04	*7.82E-02*	0.91420643	0	0.08237089	0.00342268
	Vanadium	33.34	0.00217389	0.0000	1.16	11.40	0	0.086505518	0.086505518	0.03135627	6.30428E-05	1.18E-01	0.00E+00	7.59E-03	2.75E-03	5.53E-06	*1.03E-02*	0	0.73356491	0.26590049	0.0005346
	Zinc	166.572	0.01360278	18.1500	6.45	14.50	1.4779908	0.480844915	1.958835715	0.156660966	0.000394481	2.12E+00	1.02E-01	3.32E-02	1.08E-02	2.72E-05	*1.46E-01*	0.69851929	0.22725409	0.07404018	0.00018644

	Maximum Concentrations Compound	C Sediment (mg/Kg)	C Water (mg/L)	C Animal (mg/Kg)	C Plant (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
	Volatile Organics																				
	2-Butanone	0.38119004	0.0021099			12.10	0	0	0	0.000358509	6.11871E-05	4.20E-04	0.00E+00	0.00E+00	2.96E-05	5.06E-06	*3.47E-05*	0	0	0.85421096	0.14578904
	Acetone	0.33140515	0			1700.00	0	0	0	0.000311687	0	3.12E-04	0.00E+00	0.00E+00	1.83E-07	0.00E+00	*1.83E-07*	0	0	1	0
	cis-1,2-Dichloroethene	0.01237688	0.00091542			3114.00	0	0	0	1.16405E-05	2.65472E-05	3.82E-05	0.00E+00	0.00E+00	3.74E-09	8.53E-09	*1.23E-08*	0	0	0.30482227	0.69517773
	Tetrachloroethene	0.01222225	0.00091542			14.00	0	0	0	1.1495E-05	2.65472E-05	3.80E-05	0.00E+00	0.00E+00	8.21E-07	1.90E-06	*2.72E-06*	0	0	0.3021648	0.6978352
	Trichloroethene	0.0094551	0.00091542			7.00	0	0	0	8.89252E-06	2.65472E-05	3.54E-05	0.00E+00	0.00E+00	1.27E-06	3.79E-06	*5.06E-06*	0	0	0.25091946	0.74908054
	Semivolatile Organics																				
	2-Methylnaphthalene	0.36	0.00245604			143.70	0	0	0	0.00033858	7.12251E-05	4.10E-04	0.00E+00	0.00E+00	2.36E-06	4.96E-07	*2.85E-06*	0	0	0.82619764	0.17380236
	Acenaphthylene	0.58151579	0.00245604			133.30	0	0	0	0.000546916	7.12251E-05	6.18E-04	0.00E+00	0.00E+00	4.10E-06	5.34E-07	*4.64E-06*	0	0	0.88477528	0.11522472
	Anthracene	0.59026536	0.00245604			1000.00	0	0	0	0.000555145	7.12251E-05	6.26E-04	0.00E+00	0.00E+00	5.55E-07	7.12E-08	*6.26E-07*	0	0	0.88628905	0.11371095
	Benzo(a)anthracene	2.26381085	0.00245604			1.30	0	0	0	0.002129114	7.12251E-05	2.20E-03	0.00E+00	0.00E+00	1.64E-03	5.48E-05	*1.69E-03*	0	0	0.96762995	0.03237005
	Benzo(a)pyrene	1.97539747	0.00245604		0.31	1.30	0	0.023370789	0.023370789	0.001857861	7.12251E-05	2.53E-02	0.00E+00	1.80E-02	1.43E-03	5.48E-05	*1.95E-02*	0	0.92375115	0.07343361	0.00281523
	Benzo(b)fluoranthene	2.23211797	0.00245604		0.17	1.30	0	0.012664938	0.012664938	0.002099307	7.12251E-05	1.48E-02	0.00E+00	9.74E-03	1.61E-03	5.48E-05	*1.14E-02*	0	0.85369308	0.14150592	0.004801
	Benzo(g,h,i)perylene	0.90985456	0.00245604			133.30	0	0	0	0.000855718	7.12251E-05	9.27E-04	0.00E+00	0.00E+00	6.42E-06	5.34E-07	*6.95E-06*	0	0	0.92316133	0.07683867
	Benzo(k)fluoranthene	2.68497632	0.00245604		0.53	1.30	0	0.039843469	0.039843469	0.00252522	7.12251E-05	4.24E-02	0.00E+00	3.06E-02	1.94E-03	5.48E-05	*3.26E-02*	0	0.93882067	0.05950107	0.00167826
	Carbazole	0.45463233	0.00237907			133.30	0	0	0	0.000427582	6.89931E-05	4.97E-04	0.00E+00	0.00E+00	3.21E-06	5.18E-07	*3.73E-06*	0	0	0.86106207	0.13893793
	Chrysene	2.60981751	0.00245604		0.30	1.30	0	0.022698966	0.022698966	0.002454533	7.12251E-05	2.52E-02	0.00E+00	1.75E-02	1.89E-03	5.48E-05	*1.94E-02*	0	0.89986973	0.09730665	0.00282362
	Dibenz(a,h)anthracene	0.46192501	0.00245604			1.30	0	0	0	0.00043444	7.12251E-05	5.06E-04	0.00E+00	0.00E+00	3.34E-04	5.48E-05	*3.89E-04*	0	0	0.85914586	0.14085414
	Dibenzofuran	0.62915054	0.00245604			133.30	0	0	0	0.000591716	7.12251E-05	6.63E-04	0.00E+00	0.00E+00	4.44E-06	5.34E-07	*4.97E-06*	0	0	0.89256197	0.10743803
	Fluoranthene	4.0029073	0.00245604		0.19	125.00	0	0.014101743	0.014101743	0.003764734	7.12251E-05	1.79E-02	0.00E+00	1.13E-04	3.01E-05	5.70E-07	*1.44E-04*	0	0.78615102	0.20987829	0.00397069
	Fluorene	0.92045863	0.00245604			125.00	0	0	0	0.000865691	7.12251E-05	9.37E-04	0.00E+00	0.00E+00	6.93E-06	5.70E-07	*7.50E-06*	0	0	0.92397925	0.07602075
	Indeno(1,2,3-cd)pyrene	1.34828341	0.00245604		0.57	1.30	0	0.042328324	0.042328324	0.001268061	7.12251E-05	4.37E-02	0.00E+00	3.26E-02	9.75E-04	5.48E-05	*3.36E-02*	0	0.96933	0.02903893	0.00163107
	Naphthalene	0.52	0.0028865			140.00	0	0	0	0.00048906	8.37086E-05	5.73E-04	0.00E+00	0.00E+00	3.49E-06	5.98E-07	*4.09E-06*	0	0	0.8538527	0.1461473
	N-nitrosodiphenylamine	0.63954259	0.00245604			150.00	0	0	0	0.00060149	7.12251E-05	6.73E-04	0.00E+00	0.00E+00	4.01E-06	4.75E-07	*4.48E-06*	0	0	0.89412292	0.10587708
	Phenanthrene	2.3467091	0.00245604		0.63	133.30	0	0.047097907	0.047097907	0.00220708	7.12251E-05	4.94E-02	0.00E+00	3.53E-04	1.66E-05	5.34E-07	*3.70E-04*	0	0.95385825	0.04469926	0.0014425
	Pyrene	3.09754534	0.00245604		0.19	133.30	0	0.014152144	0.014152144	0.002913241	7.12251E-05	1.71E-02	0.00E+00	1.06E-04	2.19E-05	5.34E-07	*1.29E-04*	0	0.82584266	0.17000103	0.00415631
	Pesticides and PCBs																				
	4,4'-DDD	0.10931709	9.6427E-05	0.0009	5.65E-03	8.50	7.6546E-05	0.00042112	0.000497667	0.000102813	2.79639E-06	6.03E-04	9.01E-06	4.95E-05	1.21E-05	3.29E-07	*7.10E-05*	0.12688408	0.69805645	0.17042411	0.00463535
	4,4-DDE	0.05527869	9.6427E-05	0.0053	2.40E-03	1.90	0.00043159	0.000178984	0.000610574	5.19896E-05	2.79639E-06	6.65E-04	2.27E-04	9.42E-05	2.74E-05	1.47E-06	*3.50E-04*	0.64865577	0.26900384	0.07813756	0.00420283
	4,4'-DDT	0.03883679	9.6427E-05	0.0000	6.24E-03	0.00	0	0.00046512	0.00046512	3.6526E-05	2.79639E-06	5.04E-04	0.00E+00	1.66E-01	1.30E-02	9.99E-04	*1.80E-01*	0	0.92204774	0.07240872	0.00554354
	Aldrin	0.0016	2.7886E-05	0.0000		0.20	0	0	0	1.5048E-06	8.08685E-07	2.31E-06	0.00E+00	0.00E+00	7.52E-06	4.04E-06	*1.16E-05*	0	0	0.6504472	0.3495528
	alpha-Chlordane	0.00619929	2.7886E-05	0.0000	6.34E-04	2.14	0	4.731E-05	4.731E-05	5.83043E-06	8.08685E-07	5.39E-05	0.00E+00	2.21E-05	2.72E-06	3.78E-07	*2.52E-05*	0	0.87693753	0.1080727	0.01498977
	Aroclor 1248	0.11035616	0.00098731	0.0000		0.98	0	0	0	0.00010379	2.86321E-05	1.32E-04	0.00E+00	0.00E+00	1.06E-04	2.92E-05	*1.35E-04*	0	0	0.78378165	0.21621835
	Aroclor 1254	0.17356494	0.00098731	0.0000		1.50	0	0	0	0.000163238	2.86321E-05	1.92E-04	0.00E+00	0.00E+00	1.09E-04	1.91E-05	*1.28E-04*	0	0	0.85077349	0.14922651
	Aroclor 1260	0.19298076	0.00098731	0.0052	1.21E-02	0.35	0.00042345	0.000898732	0.001322178	0.000181498	2.86321E-05	1.53E-03	1.23E-03	2.61E-03	5.26E-04	8.30E-05	*4.44E-03*	0.27634537	0.58652138	0.11844768	0.01868558
	beta-BHC	0.00075	2.7886E-05	0.0000		4.00	0	0	0	7.05375E-07	8.08685E-07	1.51E-06	0.00E+00	0.00E+00	1.76E-07	2.02E-07	*3.79E-07*	0	0	0.46588304	0.53411696
	delta-BHC	0.00874384	2.7886E-05	0.0000		1.60	0	0	0	8.22359E-06	8.08685E-07	9.03E-06	0.00E+00	0.00E+00	5.14E-06	5.05E-07	*5.65E-06*	0	0	0.91046712	0.08953288
	Endosulfan I	0.01719876	2.7886E-05	0.0000	2.83E-03	10.00	0	0.000211042	0.000211042	1.61754E-05	8.08685E-07	2.28E-04	0.00E+00	2.11E-05	1.62E-06	8.09E-08	*2.28E-05*	0	0.92551692	0.07093663	0.00354645
	Endosulfan Sulfate	0.00854661	9.6427E-05	0.0000		10.00	0	0	0	8.03808E-06	2.79639E-06	1.08E-05	0.00E+00	0.00E+00	8.04E-07	2.80E-07	*1.08E-06*	0	0	0.74189856	0.25810144
	Endrin Aldehyde	0.0059	9.6427E-05	0.0000	1.81E-03	0.30	0	0.000135205	0.000135205	5.54895E-06	2.79639E-06	1.44E-04	0.00E+00	4.51E-04	1.85E-05	9.32E-06	*4.79E-04*	0	0.94186475	0.03865503	0.01948021
	gamma-Chlordane	0.0046	0.0000017	0.0000	4.42E-04	2.14	0	3.29247E-05	3.29247E-05	4.3263E-06	4.93E-08	3.73E-05	0.00E+00	1.54E-05	2.02E-06	2.30E-08	*1.74E-05*	0	0.88269265	0.11598564	0.0013217
	Inorganics																				
	Aluminum	9110.90995	1.36539082	10.1000	1.52E+02	109.70	0.8224632	11.30838794	12.13085114	8.568810811	0.039596334	2.07E+01	7.50E-03	1.03E-01	7.81E-02	3.61E-04	*1.89E-01*	0.03965731	0.54526482	0.41316862	0.00190925
	Antimony	1.3114162	0.01871452	0.0000		0.13	0	0	0	0.001233387	0.000542721	1.78E-03	0.00E+00	0.00E+00	9.87E-03	4.34E-03	*1.42E-02*	0	0	0.69443239	0.30556761
	Arsenic	25.0757871	0.00713341	0.0000	1.32	5.14	0	0.098554713	0.098554713	0.023583778	0.000206869	1.22E-01	0.00E+00	1.92E-02	4.59E-03	4.02E-05	*2.38E-02*	0	0.80554516	0.19276397	0.00169086
	Barium	67.2340431	0.03862552	18.3000	6.56	208.00	1.4902056	0.488865056	1.979070656	0.063233617	0.00112014	2.04E+00	7.16E-03	2.35E-03	3.04E-04	5.39E-06	*9.82E-03*	0.72926877	0.23923814	0.03094493	0.00054817
	Beryllium	0.62626426	9.98E-05	0.0000		0.66	0	0	0	0.000589002	2.8942E-06	5.92E-04	0.00E+00	0.00E+00	8.92E-04	4.39E-06	*8.97E-04*	0	0	0.99511028	0.00488972
	Cadmium	1.99980141	0.00046302	0.0900	0.21	1.45	0.00732888	0.015974633	0.023303513	0.001880813	1.34275E-05	2.52E-02	5.05E-03	1.10E-02	1.30E-03	9.26E-06	*1.74E-02*	0.2908545	0.63397052	0.0746421	0.00053289
	Chromium	370.017342	0.00088	0.1800	6.91	1.00	0.01465776	0.515616649	0.530274409	0.348001311	0.00002552	8.78E-01	1.47E-02	5.16E-01	3.48E-01	2.55E-05	*8.78E-01*	0.01668876	0.58706128	0.3962209	2.9056E-05
	Cobalt	10.2255156	0.0071	0.4400	0.91	5.00	0.03583008	0.067722337	0.103552417	0.009617097	0.0002059	1.13E-01	7.17E-03	1.35E-02	1.92E-03	4.12E-05	*2.27E-02*	0.31603042	0.59732824	0.08482525	0.00181609
	Copper	91.2696188	0.00530976	21.0000	4.62	47.00	1.710072	0.344696026	2.054768026	0.085839076	0.000153983	2.14E+00	3.64E-02	7.33E-03	1.83E-03	3.28E-06	*4.55E-02*	0.79881497	0.16101564	0.04009746	7.1929E-05
	Cyanide	0.4516316	0	0.0000		68.70	0	0	0	0.00042476	0	4.25E-04	0.00E+00	0.00E+00	6.18E-06	0.00E+00	*6.18E-06*	0	0	1	0
X	Iron	20053.6171	5.96209536	78.0000	1660.03	3.19	6.351696	123.7854416	130.1371376	18.86042687	0.172900765	1.49E+02	1.99E+00	3.88E+01	5.91E+00	5.42E-02	*4.68E+01*	0.04258012	0.8298254	0.1264354	0.00115908
X	Lead	296.685259	0.01799063	0.0000	27.06	1.13	0	2.017527915	2.017527915	0.279032486	0.000521728	2.30E+00	0.00E+00	1.79E+00	2.47E-01	4.62E-04	*2.03E+00*	0	0.8783003	0.12147258	0.00022713
	Manganese	678.709865	0.85064338	108.0000	382.73	977.00	8.794656	28.53945175	37.33410775	0.638326628	0.024668658	3.80E+01	9.00E-03	2.92E-02	6.53E-04	2.52E-05	*3.89E-02*	0.23145596	0.75109546	0.01679935	0.00064922
	Mercury	0.32304843	0.00011715	0.0000	0.01	0.01	0	0.000843837	0.000843837	0.000303827	3.39735E-06	1.15E-03	0.00E+00	1.32E-01	4.75E-02	5.31E-04	*1.80E-01*	0	0.7330948	0.26395371	0.00295149
	Nickel	16.7202774	0.00269063	0.0000	0.43	77.40	0	0.032208941	0.032208941	0.015725421	0.000847722	4.88E-02	0.00E+00	4.16E-04	2.03E-04	1.10E-05	*6.30E-04*	0	0.66026169	0.32236058	0.01737772
	Selenium	1.5395849	0.00098312	0.2400	0.13	0.40	0.01954368	0.009864518	0.029408198	0.00144798	2.85104E-05	3.09E-02	4.89E-02	2.47E-02	3.62E-03	7.13E-05	*7.72E-02*	0.63279512	0.31939834	0.04688341	0.00092312
	Silver	1.10917445	0.00035786	0.2100		181.20	0.01710072	0	0.01710072	0.001043179	1.03779E-05	1.82E-02	9.44E-05	0.00E+00	5.76E-06	5.73E-08	*1.00E-04*	0.94196648	0	0.05746186	0.00057165
	Thallium	0.66297503	0.00071099	0.0000		0.07	0	0	0	0.000623528	2.06187E-05	6.44E-04	0.00E+00	0.00E+00	8.43E-03	2.79E-04	*8.70E-03*	0	0	0.96799066	0.03200934
	Vanadium	44.6154381	0.00497439	0.0000	1.55	11.40	0	0.115761295	0.115761295	0.04196082	0.000144257	1.58E-01	0.00E+00	1.02E-02	3.68E-03	1.27E-05	*1.38E-02*	0	0.7332866	0.26579961	0.00091379
	Zinc	240.350102	0.02923178	18.3000	9.30	14.50	1.4902056	0.693820838	2.184026438	0.226049271	0.000847722	2.41E+00	1.03E-01	4.78E-02	1.56E-02	5.85E-05	*1.66E-01*	0.61810574	0.2877822	0.09376045	0.00035162

Table E.1-57. Average Exposure Calculations for Shrew - Station 20

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0.1075	0.0025					0.097091709	26.59374907	0.018292078	0.001327625	0.00055	2.02E-02	6.88E-04	4.99E-05	2.07E-05	*0.00*	0.906908644	0.065822734	0.027268622
	Acetone	0.342	0.0025					0.302663316	3736.311853	0.057021769	0.0042237	0.00055	6.18E-02	1.53E-05	1.13E-06	1.47E-07	*0.00*	0.922749999	0.068349672	0.008900329
	cis-1,2-Dichloroethene	0	0.000583333					0	6844.044183	0	0	0.000128333	0.00E+00	0.00E+00	0.00E+00	1.88E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	0.00E+00	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0005					0	8.324449805	0	0	0.00011	0.00E+00	0.00E+00	0.00E+00	1.32E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	1.05	0.0025					1.168350044	1.55	0.220117148	0.0129675	0.00055	2.34E-01	1.42E-01	8.39E-03	3.56E-04	*0.15*	0.942142571	0.055503326	0.002354103
	Benzo(a)pyrene	0.965	0.0025					1.089434172	1.55	0.205249398	0.01191775	0.00055	2.18E-01	1.33E-01	7.71E-03	3.56E-04	*0.14*	0.942734185	0.054739602	0.002526214
	Benzo(b)fluoranthene	2.771666667	0.0025					3.202172171	1.55	0.603289237	0.034230083	0.00055	6.38E-01	3.90E-01	2.21E-02	3.56E-04	*0.41*	0.945491685	0.053646339	0.000861975
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	1.45	0.0025					1.613435775	1.55	0.3039713	0.0179075	0.00055	3.22E-01	1.97E-01	1.16E-02	3.56E-04	*0.21*	0.942754804	0.055539394	0.001705803
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	2.223333333	0.0025					2.446967827	148.65	0.461008739	0.027458167	0.00055	4.89E-01	3.10E-03	1.85E-04	3.70E-06	*0.00*	0.942725566	0.056149729	0.001124705
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0.83	0.0025					1.00071814	1.55	0.188535298	0.0102505	0.00055	1.99E-01	1.22E-01	6.63E-03	3.56E-04	*0.13*	0.945817559	0.051423277	0.002759163
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0.77	0.0025					0.819076386	158.52	0.154313991	0.0095095	0.00055	1.64E-01	9.73E-04	6.00E-05	3.47E-06	*0.00*	0.938800959	0.057853003	0.003346038
	Pyrene	1.95	0.0025					2.133576855	158.52	0.401965879	0.0240825	0.00055	4.27E-01	2.54E-03	1.52E-04	3.47E-06	*0.00*	0.942258337	0.056452394	0.001289269
	Pesticides and PCBs																			
	4,4'-DDD	0.024	0.00005					0.027105344	18.68	0.005106647	0.0002964	0.000011	5.41E-03	2.73E-04	1.59E-05	5.89E-07	*0.00*	0.943221769	0.054746479	0.002031752
	4,4'-DDE	0.025	0.00005					0.027905107	2.26	0.005257322	0.00030875	0.000011	5.58E-03	2.33E-03	1.37E-04	4.87E-06	*0.00*	0.942667049	0.055360589	0.001972361
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	0.00E+00	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	0.00E+00	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0.035166667	2.17286E-05					0.040233229	5.45	0.00757994	0.000434308	4.78029E-06	8.02E-03	1.39E-03	7.97E-05	8.78E-07	*0.00*	0.945244165	0.054159717	0.000596119
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	0.00E+00	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	0.00E+00	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	0.00E+00	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	0.00E+00	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	0.00E+00	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0.04	0.000025					0.041954029	3.30	0.007904139	0.000494	0.0000055	8.40E-03	2.40E-03	1.50E-04	1.67E-06	*0.00*	0.940561464	0.058784058	0.000654478
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	0.00E+00	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	0.00E+00	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0.0119	2.16286E-05					0.013614467	5.45	0.002564966	0.000146965	4.75829E-06	2.72E-03	4.71E-04	2.70E-05	8.74E-07	*0.00*	0.944151392	0.054097104	0.001751504
	Inorganics																			
X	Aluminum	24983.33333	0.386114286					1348.306878	58.27114864	254.0210159	308.5441667	0.084945143	5.63E+02	4.36E+00	5.29E+00	1.46E-03	*9.66*	0.451472422	0.548376605	0.000150973
	Antimony	4.55	0.000692857					0.361111111	0.148650889	0.068033333	0.0561925	0.000152429	1.24E-01	4.58E-01	3.78E-01	1.03E-03	*0.84*	0.54698733	0.451787146	0.001225524
X	Arsenic	298.8333333	0.024585714					2.143778354	0.149840096	0.403887842	1.88220175	0.005408857	2.29E+00	2.70E+00	1.26E+01	3.61E-02	*15.29*	0.176254905	0.821384693	0.002360402
	Barium	106.75	0.037342857					6.1	11.83503851	1.14924	1.3183625	0.008215429	2.48E+00	9.71E-02	1.11E-01	6.94E-04	*0.21*	0.464185992	0.53249574	0.003318268
	Beryllium	1.7833333	6.37857E-05					0.141534389	1.450568131	0.026665079	0.022024166	1.40329E-05	4.87E-02	1.84E-02	1.52E-02	9.67E-06	*0.03*	0.547500702	0.452211169	0.00028813
X	Cadmium	16.3166667	0.00043					12.10040656	2.120009672	2.279716595	0.201510834	0.0000946	2.48E+00	1.08E+00	9.51E-02	4.46E-05	*1.17*	0.918750798	0.081211077	3.81248E-05
X	Chromium	1586.666667	0.025785714					1.158007866	19.78047452	0.218168682	19.59533333	0.005672857	1.98E+01	1.10E-02	9.91E-01	2.87E-04	*1.00*	0.01100796	0.988705809	0.000286231
	Cobalt	37.8666667	0.00146857					3.005291008	10.99	0.566196826	0.467653334	0.000323085	1.03E+00	5.15E-02	4.26E-02	2.94E-05	*0.09*	0.547487405	0.452200186	0.000312409
	Copper	997.6666667	0.021542857					5.246079333	33.43	0.988361346	12.32118333	0.004739429	1.33E+01	2.96E-02	3.69E-01	1.42E-04	*0.40*	0.074233157	0.925410877	0.000355966
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	34266.66667	2.401					2066.878307	7.01	389.399873	423.1933333	0.52822	8.13E+02	5.55E+01	6.04E+01	7.53E-02	*115.98*	0.478895108	0.520455272	0.00064962
	Lead	876.5	0.013072856					30.25408547	17.58264402	5.699869702	10.824775	0.002876028	1.65E+01	3.24E-01	6.16E-01	1.64E-04	*0.94*	0.34487143	0.654954556	0.000174014
	Manganese	735.1666667	0.469714286					6.370746416	193.41	1.200248625	9.079308334	0.103337143	1.04E+01	6.21E-03	4.69E-02	5.34E-04	*0.05*	0.115598658	0.874448708	0.009952634
	Mercury	2.3	0.000203929					0.088366146	0.070330576	0.016648182	0.028405	4.48643E-05	4.51E-02	2.37E-01	4.04E-01	6.38E-04	*0.64*	0.36915528	0.629849903	0.000994817
	Nickel	47.65	0.002842857					2.297544295	87.91322008	0.432857345	0.5884775	0.000625429	1.02E+00	4.92E-03	6.69E-03	7.11E-06	*0.01*	0.423555941	0.57583207	0.000611989
	Selenium	8.3333333	0.000857143					0.696702715	0.4395661	0.131258792	0.102916666	0.000188571	2.34E-01	2.99E-01	2.34E-01	4.29E-04	*0.53*	0.560063726	0.439131665	0.000804609
	Silver	1.6	0.00025					0.126984127	398.246887	0.02392381	0.01976	0.000055	4.37E-02	6.01E-05	4.96E-05	1.38E-07	*0.00*	0.546969837	0.451772698	0.001257464
	Thallium	4.4	0.000778571					0.349206349	0.164354697	0.065790476	0.05434	0.000171286	1.20E-01	4.00E-01	3.31E-01	1.04E-03	*0.73*	0.546878742	0.451697458	0.0014238
X	Vanadium	90.2666667	0.001878929					7.164021167	0.428489138	1.349701588	1.114793334	0.000413364	2.46E+00	3.15E+00	2.60E+00	9.65E-04	*5.75*	0.547566656	0.452265644	0.0001677
	Zinc	2840	0.127785714					184.2994266	351.6528803	34.72201197	35.074	0.028112857	6.98E+01	9.87E-02	9.97E-02	7.99E-05	*0.20*	0.497278155	0.502319221	0.000402624

Table E.1-58. Average Exposure Calculations for Shrew - Station 21

	Mean Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0.038	0.000583333					0.031183704	6844.044183	0.00587501	0.0004693	0.000128333	6.47E-03	8.58E-07	6.86E-08	1.88E-08	*0.00*	0.907667809	0.072505156	0.019827036
	Tetrachloroethene	0.0375	0.0005					0.031764745	17	0.005984478	0.000463125	0.00011	6.56E-03	3.59E-04	2.78E-05	6.61E-06	*0.00*	0.912601448	0.07062413	0.016774422
	Trichloroethene	0.019	0.0005					0.016119357	8.324449805	0.003036887	0.00023465	0.00011	3.38E-03	3.65E-04	2.82E-05	1.32E-05	*0.00*	0.898078885	0.069391527	0.032529588
	Semivolatile Organics																			
	2-Methylnaphthalene	0.14	0.0025					0.12424306	170.89	0.023407392	0.001729	0.00055	2.57E-02	1.37E-04	1.01E-05	3.22E-06	*0.00*	0.91127598	0.067311905	0.021412115
	Acenaphthylene	0.038	0.0025					0.03400147	158.52	0.006405877	0.0004693	0.00055	7.43E-03	4.04E-05	2.96E-06	3.47E-06	*0.00*	0.862723812	0.06320388	0.074072308
	Anthracene	0.42	0.0025					0.381437505	1189.21	0.071862826	0.005187	0.00055	7.76E-02	6.04E-05	4.36E-06	4.62E-07	*0.00*	0.926069422	0.066842934	0.007087645
	Benzo(a)anthracene	0.39	0.0025					0.370645481	1.55	0.069829609	0.0048165	0.00055	7.52E-02	4.52E-02	3.12E-03	3.56E-04	*0.05*	0.928633275	0.064052517	0.007314208
	Benzo(a)pyrene	0.89	0.0025					0.858171542	1.55	0.161679519	0.0109915	0.00055	1.73E-01	1.05E-01	7.11E-03	3.56E-04	*0.11*	0.93337125	0.063453616	0.003175134
	Benzo(b)fluoranthene	1.606666667	0.0025					1.585403766	1.55	0.29869007	0.019842333	0.00055	3.19E-01	1.93E-01	1.28E-02	3.56E-04	*0.21*	0.936090699	0.062185608	0.001723693
	Benzo(g,h,i)perylene	0.71	0.0025					0.718939675	158.52	0.135448235	0.0087685	0.00055	1.45E-01	8.54E-04	5.53E-05	3.47E-06	*0.00*	0.935630931	0.060569854	0.003799215
	Benzo(k)fluoranthene	0.0335	0.0025					0.033407879	1.55	0.006294044	0.000413725	0.00055	7.26E-03	4.07E-03	2.68E-04	3.56E-04	*0.00*	0.867214713	0.057004428	0.075780858
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	#DIV/0!	0
	Chrysene	0.94	0.0025					0.893350646	1.55	0.168307262	0.011609	0.00055	1.80E-01	1.09E-01	7.51E-03	3.56E-04	*0.12*	0.932624526	0.064327813	0.003047661
	Dibenz(a,h)anthracene	0.24	0.0025					0.231326477	1.55	0.043581908	0.002964	0.00055	4.71E-02	2.82E-02	1.92E-03	3.56E-04	*0.03*	0.925386299	0.062935404	0.011678297
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	1.623333333	0.0025					1.525955288	148.65	0.287489976	0.020048167	0.00055	3.08E-01	1.93E-03	1.35E-04	3.70E-06	*0.00*	0.933141969	0.065072828	0.001785203
	Fluorene	0.24	0.0025					0.215672784	148.65	0.040632752	0.002964	0.00055	4.41E-02	2.73E-04	1.99E-05	3.70E-06	*0.00*	0.920401846	0.067139706	0.012458448
	Indeno(1,2,3-cd)pyrene	0.62	0.0025					0.638463084	1.55	0.120286445	0.007657	0.00055	1.28E-01	7.78E-02	4.95E-03	3.56E-04	*0.08*	0.936129038	0.059590588	0.004280374
	Naphthalene	1.9	0.0025					1.654122629	166.49	0.311636703	0.023465	0.00055	3.36E-01	1.87E-03	1.41E-04	3.30E-06	*0.00*	0.92845262	0.069908777	0.001638603
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0.6	0.0025					0.545124062	158.52	0.102701373	0.00741	0.00055	1.11E-01	6.48E-04	4.67E-05	3.47E-06	*0.00*	0.928068849	0.066961034	0.004970117
	Pyrene	1.44	0.0025					1.345694862	158.52	0.253528912	0.017784	0.00055	2.72E-01	1.60E-03	1.12E-04	3.47E-06	*0.00*	0.932561599	0.065415322	0.002023078
	Pesticides and PCBs																			
	4,4'-DDD	0.03	0.00005					0.028938456	18.68	0.005452005	0.0003705	0.000011	5.83E-03	2.92E-04	1.98E-05	5.89E-07	*0.00*	0.934601926	0.063512415	0.001885659
	4,4'-DDE	0.031	0.00005					0.029553968	2.26	0.005567968	0.00038285	0.000011	5.96E-03	2.46E-03	1.69E-04	4.87E-06	*0.00*	0.933937931	0.064216994	0.001845075
	4,4'-DDT	0.0044	0.00005					0.004277665	1.76	0.000805912	0.00005434	0.000011	8.71E-04	4.58E-04	3.09E-05	6.26E-06	*0.00*	0.925004485	0.062370007	0.012625508
	Aldrin	0.0008	0.000025					0.000787253	0.44	0.000148318	0.00000988	0.0000055	1.64E-04	3.37E-04	2.25E-05	1.25E-05	*0.00*	0.906046721	0.060354902	0.033598377
	alpha-Chlordane	0.050333333	2.17286E-05					0.049183541	5.45	0.009266179	0.000621617	4.78029E-06	9.89E-03	1.70E-03	1.14E-04	8.78E-07	*0.00*	0.936680097	0.062836683	0.00048322
	Aroclor 1248	0.24	0.0005					0.233418538	1.55	0.043976052	0.002964	0.00011	4.71E-02	2.84E-02	1.92E-03	7.12E-05	*0.03*	0.934665323	0.062996742	0.002337936
	Aroclor 1254	0.0016	0.0005					0.001574505	0.08	0.000296637	0.00001976	0.00011	4.26E-04	3.67E-03	2.44E-04	1.36E-03	*0.01*	0.695682498	0.046341814	0.257975688
	Aroclor 1260	0.42	0.0005					0.418189758	0.76	0.07878695	0.005187	0.00011	8.41E-02	1.04E-01	6.84E-03	1.45E-04	*0.11*	0.937003436	0.061688348	0.001308216
	beta-BHC	0.0008	0.000025					0.000708572	8.79	0.000133495	0.00000988	0.0000055	1.49E-04	1.52E-05	1.12E-06	6.26E-07	*0.00*	0.896691853	0.066364401	0.036943746
	delta-BHC	0.0018	0.000025					0.001615015	3.52	0.000304269	0.00002223	0.0000055	3.32E-04	8.65E-05	6.32E-06	1.56E-06	*0.00*	0.916475617	0.066958061	0.016566322
	Endosulfan I	0.03545	0.000025					0.031757064	3.30	0.005983031	0.000437808	0.0000055	6.43E-03	1.81E-03	1.33E-04	1.67E-06	*0.00*	0.931017093	0.068127054	0.000855853
	Endosulfan Sulfate	0.0016	0.00005					0.001408848	3.30	0.000265427	0.00001976	0.000011	2.96E-04	8.05E-05	5.99E-06	3.34E-06	*0.00*	0.896146666	0.066714625	0.037138708
	Endrin Aldehyde	0.009	0.00005					0.00855001	0.11	0.001610822	0.00011115	0.000011	1.73E-03	1.47E-02	1.02E-03	1.01E-04	*0.02*	0.929514146	0.064138376	0.006347478
	gamma-Chlordane	0.033	2.16286E-05					0.032246163	5.45	0.006075177	0.00040755	4.75829E-06	6.49E-03	1.12E-03	7.48E-05	8.74E-07	*0.00*	0.936445592	0.062820951	0.000733457
	Inorganics																			
X	Aluminum	13647.5	0.386114286					736.531746	58.27114864	138.762581	168.546625	0.084945143	3.07E+02	2.38E+00	2.89E+00	1.46E-03	*5.28*	0.451415814	0.548307846	0.000276339
	Antimony	2	0.000692857					0.158730159	0.148650889	0.029904762	0.0247	0.000152429	5.48E-02	2.01E-01	1.66E-01	1.03E-03	*0.37*	0.546133972	0.451082311	0.002783718
X	Arsenic	175.25	0.024585714					1.470786207	0.149840096	0.277096121	1.103812125	0.005408857	1.39E+00	1.85E+00	7.37E+00	3.61E-02	*9.25*	0.199879321	0.796219077	0.003901602
	Barium	127.575	0.037342857					7.29	11.83503851	1.373436	1.57555125	0.008215429	2.96E+00	1.16E-01	1.33E-01	6.94E-04	*0.25*	0.464437561	0.532784331	0.002778108
	Beryllium	0.9	6.37857E-05					0.071428571	1.450568131	0.013457143	0.011115	1.40329E-05	2.46E-02	9.28E-03	7.66E-03	9.67E-06	*0.02*	0.547345916	0.452083322	0.000570762
X	Cadmium	17.675	0.00043					12.89462469	2.120009672	2.429347292	0.21828625	0.0000946	2.65E+00	1.15E+00	1.03E-01	4.46E-05	*1.25*	0.917521423	0.082442848	3.57287E-05
X	Chromium	2399.75	0.025785714					1.126348874	19.78047452	0.212204128	29.6369125	0.005672857	2.99E+01	1.07E-02	1.50E+00	2.87E-04	*1.51*	0.007107876	0.992702109	0.000190015
	Cobalt	23.125	0.00146857					1.83531746	10.99	0.34577381	0.28559375	0.000323085	6.32E-01	3.15E-02	2.60E-02	2.94E-05	*0.06*	0.547378392	0.452110146	0.000511461
	Copper	457	0.021542857					4.268945099	33.43	0.804269257	5.64395	0.004739429	6.45E+00	2.41E-02	1.69E-01	1.42E-04	*0.19*	0.124635736	0.874629806	0.000734458
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	21950	2.401					1323.968254	7.01	249.435619	271.0825	0.52822	5.21E+02	3.56E+01	3.87E+01	7.53E-02	*74.32*	0.478720606	0.520265626	0.001013768
	Lead	526.75	0.013072856					20.05940739	17.58264402	3.779192353	6.5053625	0.002876028	1.03E+01	2.15E-01	3.70E-01	1.64E-04	*0.59*	0.36736017	0.632360263	0.000279567
	Manganese	207.75	0.469714286					2.690779969	193.41	0.506942946	2.5657125	0.103337143	3.18E+00	2.62E-03	1.33E-02	5.34E-04	*0.02*	0.159617169	0.807845871	0.03253696
X	Mercury	9.5375	0.000203929					0.104514201	0.070330576	0.019690475	0.117788125	4.48643E-05	1.38E-01	2.80E-01	1.67E+00	6.38E-04	*1.96*	0.143179024	0.856494746	0.00032623
	Nickel	32.7	0.002842857					2.533832091	87.91322008	0.477373966	0.403845	0.000625429	8.82E-01	5.43E-03	4.59E-03	7.11E-06	*0.01*	0.541335829	0.457954944	0.000709228
	Selenium	3.2333333	0.000857143					0.348065645	0.4395661	0.065575567	0.039931666	0.000188571	1.06E-01	1.49E-01	9.08E-02	4.29E-04	*0.24*	0.620417881	0.377798023	0.001784096
	Silver	0.3	0.00025					0.023809524	398.246887	0.004485714	0.003705	0.000055	8.25E-03	1.13E-05	9.30E-06	1.38E-07	*0.00*	0.544005544	0.449324324	0.006670132
	Thallium	0.22	0.000778571					0.017460317	0.164354697	0.003289524	0.002717	0.000171286	6.18E-03	2.00E-02	1.65E-02	1.04E-03	*0.04*	0.53247414	0.439799899	0.027725961
X	Vanadium	53.625	0.001878929					4.255952381	0.428489138	0.801821429	0.66226875	0.000413364	1.46E+00	1.87E+00	1.55E+00	9.65E-04	*3.42*	0.547503919	0.452213826	0.000282256
	Zinc	3562.5	0.127785714					198.523154	351.6528803	37.40176222	43.996875	0.028112857	8.14E+01	1.06E-01	1.25E-01	7.99E-05	*0.23*	0.459330161	0.540324586	0.000345253

Table E.1-59. Average Exposure Calculations for Shrew - Station 22-TT22

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0.013	0.0025					0.007481433	26.59374907	0.001409502	0.00016055	0.00055	2.12E-03	5.30E-05	6.04E-06	2.07E-05	*0.00*	0.664843108	0.075729279	0.259427613
	Acetone	1.2065	0.0025					0.680344278	3736.311853	0.128176862	0.014900275	0.00055	1.44E-01	3.43E-05	3.99E-06	1.47E-07	*0.00*	0.892427884	0.103742756	0.00382936
	cis-1,2-Dichloroethene	0.073	0.00058333					0.044691432	6844.044183	0.008419866	0.00090155	0.000128333	9.45E-03	1.23E-06	1.32E-07	1.88E-08	*0.00*	0.891014744	0.095404649	0.013580607
	Tetrachloroethene	1.131	0.0005					0.714716841	17	0.134652653	0.01396785	0.00011	1.49E-01	8.09E-03	8.39E-04	6.61E-06	*0.01*	0.905346585	0.093913822	0.000739593
	Trichloroethene	0.25925	0.0005					0.164085489	8.324449805	0.030913706	0.003201738	0.00011	3.42E-02	3.71E-03	3.85E-04	1.32E-05	*0.00*	0.903237558	0.093548459	0.003213983
	Semivolatile Organics																			
	2-Methylnaphthalene	0.23933333	0.0025					0.158454508	170.89	0.029852829	0.002955767	0.00055	3.34E-02	1.75E-04	1.73E-05	3.22E-06	*0.00*	0.894906648	0.088605847	0.016487504
	Acenaphthylene	0.239	0.0025					0.159539899	158.52	0.030057317	0.00295165	0.00055	3.36E-02	1.90E-04	1.86E-05	3.47E-06	*0.00*	0.8956568	0.087954138	0.016389062
	Anthracene	0.25033333	0.0025					0.169609468	1189.21	0.031954424	0.003091617	0.00055	3.56E-02	2.69E-05	2.60E-06	4.62E-07	*0.00*	0.897696019	0.086852825	0.015451157
	Benzo(a)anthracene	0.335	0.0025					0.23751783	1.55	0.044748359	0.00413725	0.00055	4.94E-02	2.89E-02	2.68E-03	3.56E-04	*0.03*	0.905184743	0.083689674	0.011125584
	Benzo(a)pyrene	0.3175	0.0025					0.228394236	1.55	0.043029474	0.003921125	0.00055	4.75E-02	2.78E-02	2.54E-03	3.56E-04	*0.03*	0.90587224	0.082548959	0.011578801
	Benzo(b)fluoranthene	0.39375	0.0025					0.289862462	1.55	0.054610088	0.004862813	0.00055	6.00E-02	3.53E-02	3.15E-03	3.56E-04	*0.04*	0.909820877	0.081015953	0.009163169
	Benzo(g,h,i)perylene	0.29833333	0.0025					0.225368488	158.52	0.042459423	0.003684417	0.00055	4.67E-02	2.68E-04	2.32E-05	3.47E-06	*0.00*	0.909315304	0.07890584	0.011778856
	Benzo(k)fluoranthene	0.42166667	0.0025					0.313711675	1.55	0.05910328	0.005207583	0.00055	6.49E-02	3.82E-02	3.37E-03	3.56E-04	*0.04*	0.91123178	0.08028853	0.00847969
	Carbazole	0.3525	0					na	158.52	No BCF	0.004353375	0	4.35E-03	No BCF	2.75E-05	0.00E+00	*0.00*	0	1	0
	Chrysene	0.36833333	0.0025					0.261151445	1.55	0.049200932	0.004548917	0.00055	5.43E-02	3.18E-02	2.94E-03	3.56E-04	*0.04*	0.906097038	0.083774021	0.010128942
	Dibenz(a,h)anthracene	0.24966667	0.0025					0.179527909	1.55	0.033823058	0.003083383	0.00055	3.75E-02	2.19E-02	1.99E-03	3.56E-04	*0.02*	0.902997103	0.082319174	0.014683723
	Dibenzofuran	0.3525	0.0025					0.235765651	158.52	0.044418249	0.004353375	0.00055	4.93E-02	2.80E-04	2.75E-05	3.47E-06	*0.00*	0.900583666	0.088265038	0.011151296
	Fluoranthene	0.475	0.0025					0.333107967	148.65	0.062757541	0.00586625	0.00055	6.92E-02	4.22E-04	3.95E-05	3.70E-06	*0.00*	0.907244494	0.084804518	0.007950988
	Fluorene	0.24366667	0.0025					0.163356919	148.65	0.030776443	0.003009283	0.00055	3.43E-02	2.07E-04	2.02E-05	3.70E-06	*0.00*	0.89633878	0.087642919	0.016018301
	Indeno(1,2,3-cd)pyrene	0.30833333	0.0025					0.236876451	1.55	0.044627523	0.003807917	0.00055	4.90E-02	2.89E-02	2.46E-03	3.56E-04	*0.03*	0.911036491	0.077735683	0.011227826
	Naphthalene	0.243333	0.0025					0.158041965	166.49	0.029775106	0.003005163	0.00055	3.33E-02	1.79E-04	1.81E-05	3.30E-06	*0.00*	0.893335317	0.090163166	0.016501517
	N-nitrosodiphenylamine	0.3525	0.0025					0.223805385	329.67	0.042164935	0.004353375	0.00055	4.71E-02	1.28E-04	1.32E-05	1.67E-06	*0.00*	0.895824281	0.092490575	0.011685145
	Phenanthrene	0.39833333	0.0025					0.269990238	158.52	0.050866161	0.004919417	0.00055	5.63E-02	3.21E-04	3.10E-05	3.47E-06	*0.00*	0.902913631	0.087323444	0.009762925
	Pyrene	0.43833333	0.0025					0.305594764	158.52	0.057574054	0.005413417	0.00055	6.35E-02	3.63E-04	3.41E-05	3.47E-06	*0.00*	0.90614331	0.085200381	0.008656309
	Pesticides and PCBs																			
	4,4'-DDD	0.0054	0.00005					0.003886021	18.68	0.000732126	0.00006669	0.000011	8.10E-04	3.92E-05	3.57E-06	5.89E-07	*0.00*	0.904064675	0.082352	0.013583326
	4,4'-DDE	0.0178875	0.00005					0.012722166	2.26	0.002396856	0.000220911	0.000011	2.63E-03	1.06E-03	9.78E-05	4.87E-06	*0.00*	0.911779685	0.084035843	0.004184472
	4,4'-DDT	0.0031	0.00005					0.002248398	1.76	0.000423598	0.000038285	0.000011	4.73E-04	2.41E-04	2.18E-05	6.26E-06	*0.00*	0.895777624	0.080960813	0.023261563
	Aldrin	0.00115833	0.000025					0.000850384	0.44	0.000160212	1.43054E-05	0.0000055	1.80E-04	3.64E-04	3.25E-05	1.25E-05	*0.00*	0.889980737	0.079466714	0.030552549
	alpha-Chlordane	0.00153333	2.1729E-05					0.001117784	5.45	0.000210591	1.89367E-05	4.78029E-06	2.34E-04	3.87E-05	3.48E-06	8.78E-07	*0.00*	0.898778496	0.080819716	0.020401788
	Aroclor 1248	0.0247	0.0005					0.017921665	1.55	0.003376442	0.000305045	0.00011	3.79E-03	2.18E-03	1.97E-04	7.12E-05	*0.00*	0.890532388	0.080455246	0.029012366
	Aroclor 1254	0.022517	0.0005					0.016530726	0.08	0.003114389	0.000278085	0.00011	3.50E-03	3.85E-02	3.44E-03	1.36E-03	*0.04*	0.889196902	0.079396725	0.031406373
	Aroclor 1260	0.03166667	0.0005					0.023522515	0.76	0.004431642	0.000391083	0.00011	4.93E-03	5.84E-03	5.16E-04	1.45E-04	*0.01*	0.898416532	0.079283421	0.022300046
	beta-BHC	0.00115833	0.000025					0.000765394	8.79	0.0001442	1.43054E-05	0.0000055	1.64E-04	1.64E-05	1.63E-06	6.26E-07	*0.00*	0.879239399	0.087225163	0.033535438
	delta-BHC	0.00118667	0.000025					0.00079431	3.52	0.000149648	1.46553E-05	0.0000055	1.70E-04	4.26E-05	4.17E-06	1.56E-06	*0.00*	0.881301932	0.086307666	0.032390403
	Endosulfan I	0.002506	0.000025					0.001674798	3.30	0.000315532	3.09491E-05	0.0000055	3.52E-04	9.57E-05	9.39E-06	1.67E-06	*0.00*	0.896445853	0.087928307	0.01562584
	Endosulfan Sulfate	0.00225167	0.00005					0.001479127	3.30	0.000278668	2.78081E-05	0.000011	3.17E-04	8.45E-05	8.44E-06	3.34E-06	*0.00*	0.877760437	0.087591235	0.034648327
	Endrin Aldehyde	0.0033	0.00005					0.002338812	0.11	0.000440632	0.000040755	0.000011	4.92E-04	4.03E-03	3.73E-04	1.01E-04	*0.00*	0.894889635	0.082770223	0.022340141
	gamma-Chlordane	0.00119667	2.1629E-05					0.000872358	5.45	0.000164352	1.47788E-05	4.75829E-06	1.84E-04	3.02E-05	2.71E-06	8.74E-07	*0.00*	0.893756063	0.08036809	0.025875847
	Inorganics																			
X	Aluminum	4711.25	0.38611429					254.2579365	58.27114864	47.90219524	58.1839375	0.084945143	1.06E+02	8.22E-01	9.99E-01	1.46E-03	*1.82*	0.451179325	0.548020597	0.000800078
X	Antimony	69.865	0.00069286					5.54484127	0.148650889	1.044648095	0.86283275	0.000152429	1.91E+00	7.03E+00	5.80E+00	1.03E-03	*12.83*	0.547614738	0.452305358	7.99045E-05
X	Arsenic	21.2416667	0.02458571					0.331529465	0.149840096	0.062460151	0.133790638	0.005408857	2.02E-01	4.17E-01	8.93E-01	3.61E-02	*1.35*	0.309730541	0.663447746	0.026821713
	Barium	41.4125	0.03734286					2.366428571	11.83503851	0.445835143	0.511444375	0.008215429	9.65E-01	3.77E-02	4.32E-02	6.94E-04	*0.08*	0.461768489	0.529722477	0.008509033
	Beryllium	0.48875	6.3786E-05					0.038789683	1.450568131	0.007307976	0.006036063	1.40329E-05	1.34E-02	5.04E-03	4.16E-03	9.67E-06	*0.01*	0.547083175	0.45186631	0.001050515
	Cadmium	1.0185714	0.00043					1.333862922	2.120009672	0.251299774	0.012579357	0.0000946	2.64E-01	1.19E-01	5.93E-03	4.46E-05	*0.12*	0.951987811	0.04765382	0.000358369
	Chromium	24.975	0.02578571					1.529365122	19.78047452	0.288132389	0.30844125	0.005672857	6.02E-01	1.46E-02	1.56E-02	2.87E-04	*0.03*	0.478429332	0.512151174	0.009419494
	Cobalt	2.8125	0.00146857					0.223214286	10.99	0.042053571	0.034734375	0.000323085	7.71E-02	3.83E-03	3.16E-03	2.94E-05	*0.01*	0.545363879	0.450446248	0.004189873
	Copper	22.95	0.02154286					1.937980159	33.43	0.365115462	0.2834325	0.004739429	6.53E-01	1.09E-02	8.48E-03	1.42E-04	*0.02*	0.558889498	0.433855764	0.007254738
	Cyanide	0.65	0.0025					0.051587302	141.9	0.009719048	0.0080275	0.00055	1.83E-02	6.85E-05	5.66E-05	3.88E-06	*0.00*	0.531195711	0.438743973	0.030060316
X	Iron	4245	2.401					256.047619	7.01	48.23937143	52.42575	0.52822	1.01E+02	6.88E+00	7.48E+00	7.53E-02	*14.43*	0.476704996	0.518075095	0.005219909
X	Lead	6765.25	0.01307286					157.4063647	17.58264402	29.65535911	83.5508375	0.002876028	1.13E+02	1.69E+00	4.75E+00	1.64E-04	*6.44*	0.261952142	0.738022453	2.54046E-05
	Manganese	70.7	0.46971429					1.290087732	193.41	0.243052529	0.873145	0.103337143	1.22E+00	1.26E-03	4.51E-03	5.34E-04	*0.01*	0.1992994	0.715965704	0.084734895
	Mercury	0.1508333	0.00020393					0.064071472	0.070330576	0.012071065	0.001862791	4.48643E-05	1.40E-02	1.72E-01	2.65E-02	6.38E-04	*0.20*	0.863531466	0.133259063	0.00320947
	Nickel	7.75	0.00284286					3.684188169	87.91322008	0.694101051	0.0957125	0.000625429	7.90E-01	7.90E-03	1.09E-03	7.11E-06	*0.01*	0.87812098	0.121087778	0.000791242
	Selenium	3.6875	0.00085714					0.38326745	0.4395661	0.072207588	0.045540625	0.000188571	1.18E-01	1.64E-01	1.04E-01	4.29E-04	*0.27*	0.612256712	0.386144368	0.00159892

Table E.1-59. Average Exposure Calculations for Shrew - Station 22-TT22

		Silver	1.2225	0.00025					0.09702381	398.246887	0.018279286	0.015097875	0.000055	3.34E-02	4.59E-05	3.79E-05	1.38E-07	*0.00*	0.546757533	0.451597345	0.001645123
		Thallium	0.4291667	0.00077857					0.034060849	0.164354697	0.006417064	0.005300209	0.000171286	1.19E-02	3.90E-02	3.22E-02	1.04E-03	*0.07*	0.539768048	0.445824342	0.01440761
X		Vanadium	31.0875	0.00187893					2.467261905	0.428489138	0.464832143	0.383930625	0.000413364	8.49E-01	1.08E+00	8.96E-01	9.65E-04	*1.98*	0.547391908	0.45212131	0.000486783
		Zinc	69.5875	0.12778571					54.5991421	351.6528803	10.28647837	0.859405625	0.028112857	1.12E+01	2.93E-02	2.44E-03	7.99E-05	*0.03*	0.920572872	0.076911211	0.002515918

Table E.1-60. Average Exposure Calculations for Shrew - Station BW

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
Volatile Organics																				
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0.417	0.000583333					0.392278186	6844.044183	0.07390521	0.00514995	0.000128333	7.92E-02	1.08E-05	7.52E-07	1.88E-08	*0.00*	0.933341116	0.065038176	0.001620708
	Tetrachloroethene	0.1545	0.0005					0.150022565	17	0.028264251	0.001908075	0.00011	3.03E-02	1.70E-03	1.15E-04	6.61E-06	*0.00*	0.933357993	0.063009525	0.003632482
	Trichloroethene	0.053	0.0005					0.051544695	8.324449805	0.009711021	0.00065455	0.00011	1.05E-02	1.17E-03	7.86E-05	1.32E-05	*0.00*	0.927015908	0.06248347	0.010500621
Semivolatile Organics																				
	2-Methylnaphthalene	0.013	0.0025					0.013225176	170.89	0.002491623	0.00016055	0.00055	3.20E-03	1.46E-05	9.39E-07	3.22E-06	*0.00*	0.778103815	0.050137826	0.171758358
	Acenaphthylene	0.019	0.0025					0.019488648	158.52	0.003671661	0.00023465	0.00055	4.46E-03	2.32E-05	1.48E-06	3.47E-06	*0.00*	0.823923878	0.052655658	0.123420464
	Anthracene	0.069	0.0025					0.071835182	1189.21	0.013533748	0.00085215	0.00055	1.49E-02	1.14E-05	7.17E-07	4.62E-07	*0.00*	0.906122151	0.057053817	0.036824032
	Benzo(a)anthracene	0.56	0.0025					0.610093124	1.55	0.114941545	0.006916	0.00055	1.22E-01	7.43E-02	4.47E-03	3.56E-04	*0.08*	0.939007027	0.056499785	0.004493187
	Benzo(a)pyrene	1	0.0025					1.105345642	1.55	0.208247119	0.01235	0.00055	2.21E-01	1.35E-01	7.99E-03	3.56E-04	*0.14*	0.941667791	0.055845177	0.002487032
	Benzo(b)fluoranthene	1.5	0.0025					1.696755878	1.55	0.319668807	0.018525	0.00055	3.39E-01	2.07E-01	1.20E-02	3.56E-04	*0.22*	0.943689007	0.054687347	0.001623646
	Benzo(g,h,i)perylene	0.64	0.0025					0.742896098	158.52	0.139961625	0.007904	0.00055	1.48E-01	8.83E-04	4.99E-05	3.47E-06	*0.00*	0.943038342	0.053255848	0.003705809
	Benzo(k)fluoranthene	0.72	0.0025					0.823096206	1.55	0.155071325	0.008892	0.00055	1.65E-01	1.00E-01	5.75E-03	3.56E-04	*0.11*	0.942606473	0.054050333	0.003343194
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0.85	0.0025					0.926034206	1.55	0.174464844	0.0104975	0.00055	1.86E-01	1.13E-01	6.79E-03	3.56E-04	*0.12*	0.940448707	0.056586531	0.002964762
	Dibenz(a,h)anthracene	0.32	0.0025					0.353572176	1.55	0.066612998	0.003952	0.00055	7.11E-02	4.31E-02	2.56E-03	3.56E-04	*0.05*	0.936694085	0.055571962	0.007733952
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	1.2	0.0025					1.293091775	148.65	0.24361849	0.01482	0.00055	2.59E-01	1.64E-03	9.97E-05	3.70E-06	*0.00*	0.940653733	0.05722262	0.002123646
	Fluorene	0.047	0.0025					0.048416786	148.65	0.009121723	0.00058045	0.00055	1.03E-02	6.14E-05	3.90E-06	3.70E-06	*0.00*	0.889735567	0.056617268	0.053647166
	Indeno(1,2,3-cd)pyrene	0.74	0.0025					0.873554133	1.55	0.164577599	0.009139	0.00055	1.74E-01	1.06E-01	5.91E-03	3.56E-04	*0.11*	0.944401279	0.052442637	0.003156084
	Naphthalene	0.026	0.0025					0.025947854	166.49	0.004888576	0.0003211	0.00055	5.76E-03	2.94E-05	1.93E-06	3.30E-06	*0.00*	0.848758847	0.055749666	0.095491487
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0.57	0.0025					0.593653399	158.52	0.1118443	0.0070395	0.00055	1.19E-01	7.06E-04	4.44E-05	3.47E-06	*0.00*	0.936454337	0.058940601	0.004605062
	Pyrene	1	0.0025					1.071267929	158.52	0.201826878	0.01235	0.00055	2.15E-01	1.27E-03	7.79E-05	3.47E-06	*0.00*	0.939923683	0.057514924	0.002561393
Pesticides and PCBs																				
	4,4'-DDD	0.017	0.00005					0.018798233	18.68	0.003541587	0.00020995	0.000011	3.76E-03	1.90E-04	1.12E-05	5.89E-07	*0.00*	0.941276326	0.055800115	0.002923559
	4,4'-DDE	0.004	0.00005					0.004371476	2.26	0.000823586	0.0000494	0.000011	8.84E-04	3.65E-04	2.19E-05	4.87E-06	*0.00*	0.931673132	0.055883233	0.012443635
	4,4'-DDT	0.0013	0.00005					0.00144881	1.76	0.000272956	0.000016055	0.000011	3.00E-04	1.55E-04	9.13E-06	6.26E-06	*0.00*	0.909819918	0.053514737	0.036665345
	Aldrin	0.000085	0.000025					9.58864E-05	0.44	1.8065E-05	1.04975E-06	0.0000055	2.46E-05	4.11E-05	2.39E-06	1.25E-05	*0.00*	0.733909529	0.042647196	0.223443275
	alpha-Chlordane	0.0024	2.17286E-05					0.002688372	5.45	0.000506489	0.00002964	4.78029E-06	5.41E-04	9.30E-05	5.44E-06	8.78E-07	*0.00*	0.936365901	0.054796592	0.008837507
	Aroclor 1248	0.028	0.0005					0.031217357	1.55	0.00588135	0.0003458	0.00011	6.34E-03	3.80E-03	2.24E-04	7.12E-05	*0.00*	0.928074924	0.054567115	0.01735796
	Aroclor 1254	0.00165	0.0005					0.001861324	0.08	0.000350673	2.03775E-05	0.00011	4.81E-04	4.34E-03	2.52E-04	1.36E-03	*0.01*	0.728973642	0.042360374	0.228665984
	Aroclor 1260	0.058	0.0005					0.066201236	0.76	0.012472313	0.0007163	0.00011	1.33E-02	1.64E-02	9.45E-04	1.45E-04	*0.02*	0.9378657	0.053862761	0.008271539
	beta-BHC	0.000085	0.000025					8.63032E-05	8.79	1.62595E-05	1.04975E-06	0.0000055	2.28E-05	1.85E-06	1.19E-07	6.26E-07	*0.00*	0.712847111	0.046022939	0.24112995
	delta-BHC	0.000085	0.000025					8.74253E-05	3.52	1.64709E-05	1.04975E-06	0.0000055	2.30E-05	4.68E-06	2.99E-07	1.56E-06	*0.00*	0.715483987	0.045600318	0.238915695
	Endosulfan I	0.000085	0.000025					8.72885E-05	3.30	1.64452E-05	1.04975E-06	0.0000055	2.30E-05	4.99E-06	3.18E-07	1.67E-06	*0.00*	0.715165143	0.04565142	0.239183436
	Endosulfan Sulfate	0.000165	0.00005					0.000166549	3.30	3.13778E-05	2.03775E-06	0.000011	4.44E-05	9.52E-06	6.18E-07	3.34E-06	*0.00*	0.706460005	0.045879168	0.247660827
	Endrin Aldehyde	0.0018	0.00005					0.001960246	0.11	0.00036931	0.00002223	0.000011	4.03E-04	3.38E-03	2.03E-04	1.01E-04	*0.00*	0.917449274	0.055224274	0.027326452
	gamma-Chlordane	0.0017	2.16286E-05					0.001904263	5.45	0.000358763	0.000020995	4.75829E-06	3.85E-04	6.59E-05	3.85E-06	8.74E-07	*0.00*	0.933024225	0.054601035	0.01237474
Inorganics																				
X	Aluminum	18558.33333	0.386114286					1001.560847	58.27114864	188.6940635	229.1954167	0.084945143	4.18E+02	3.24E+00	3.93E+00	1.46E-03	*7.17*	0.451448826	0.548347944	0.00020323
X	Antimony	22.4416667	0.000692857					1.781084659	0.148650889	0.33555635	0.277154584	0.000152429	6.13E-01	2.26E+00	1.86E+00	1.03E-03	*4.12*	0.547522287	0.452228997	0.000248715
X	Arsenic	1238.666667	0.024585714					5.849958935	0.149840096	1.102132263	7.801742	0.005408857	8.91E+00	7.36E+00	5.21E+01	3.61E-02	*59.46*	0.123706055	0.875686842	0.000607104
	Barium	129.2833333	0.037342857					7.387619046	11.83503851	1.391827428	1.596649166	0.008215429	3.00E+00	1.18E-01	1.35E-01	6.94E-04	*0.25*	0.464454611	0.53280389	0.002741499
	Beryllium	1.3916667	6.37857E-05					0.110449738	1.450568131	0.020808731	0.017187084	1.40329E-05	3.80E-02	1.43E-02	1.18E-02	9.67E-06	*0.03*	0.547456308	0.452174502	0.00036919
	Cadmium	10.575	0.00043					8.57157967	2.120009672	1.61488561	0.13060125	0.0000946	1.75E+00	7.62E-01	6.16E-02	4.46E-05	*0.82*	0.925127613	0.074818193	5.4194E-05
	Chromium	1518.166667	0.025785714					1.161436975	19.78047452	0.218814726	18.74935833	0.005672857	1.90E+01	1.11E-02	9.48E-01	2.87E-04	*0.96*	0.011532439	0.988168578	0.000298983
	Cobalt	39.8416667	0.00146857					3.16203704	10.99	0.595727778	0.492044584	0.000323085	1.09E+00	5.42E-02	4.48E-02	2.94E-05	*0.10*	0.547495883	0.452207189	0.000296927
	Copper	898.6666667	0.021542857					5.103319175	33.43	0.961465333	11.09853333	0.004739429	1.21E+01	2.88E-02	3.32E-01	1.42E-04	*0.36*	0.079692184	0.919914983	0.000392833
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	111725	2.401					6738.968254	7.01	1269.621619	1379.80375	0.52822	2.65E+03	1.81E+02	1.97E+02	7.53E-02	*377.97*	0.479110889	0.52068978	0.000199332
	Lead	606.75	0.013072856					22.48392498	17.58264402	4.235971465	7.4933625	0.002876028	1.17E+01	2.41E-01	4.26E-01	1.64E-04	*0.67*	0.361054862	0.638699998	0.00024514
	Manganese	1035.5	0.469714286					8.047251365	193.41	1.516102157	12.788425	0.103337143	1.44E+01	7.84E-03	6.61E-02	5.34E-04	*0.07*	0.105227404	0.887600323	0.007172273
X	Mercury	6.6	0.000203929					0.100070993	0.070330576	0.018853375	0.08151	4.48643E-05	1.00E-01	2.68E-01	1.16E+00	6.38E-04	*1.43*	0.187767212	0.811785969	0.000446819
	Nickel	36.1833333	0.002842857					2.468016274	87.91322008	0.464974266	0.446864166	0.000625429	9.12E-01	5.29E-03	5.08E-03	7.11E-06	*0.01*	0.509581021	0.48973355	0.000685428
	Selenium	9.9	0.000857143					0.790474664	0.4395661	0.148925427	0.122265	0.000188571	2.71E-01	3.39E-01	2.78E-01	4.29E-04	*0.62*	0.548772852	0.450532284	0.000694864
	Silver	1.48	0.00025					0.117460317	398.246887	0.022129524	0.018278	0.000055	4.05E-02	5.56E-05	4.59E-05	1.38E-07	*0.00*	0.546914076	0.451726642	0.001359282
X	Thallium	8.2083333	0.000778571					0.651455024	0.164354697	0.122734126	0.101372916	0.000171286	2.24E-01	7.47E-01	6.17E-01	1.04E-03	*1.36*	0.547240241	0.45199604	0.000763719
X	Vanadium	80.5666667	0.001878929					6.394179897	0.428489138	1.204663493	0.994998334	0.000413364	2.20E+00	2.81E+00	2.32E+00	9.65E-04	*5.13*	0.547555601	0.452256513	0.000187886
	Zinc	2101.666667	0.127785714					166.9692541	351.6528803	31.45700748	25.95558333	0.028112857	5.74E+01	8.95E-02	7.38E-02	7.99E-05	*0.16*	0.547643143	0.451867433	0.000489424

Table E.1-61. Average Exposure Calculations for Shrew - Station CB-01

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.0025					0	6844.044183	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	8.04E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0015					0	8.324449805	0	0	0.00033	3.30E-04	0.00E+00	0.00E+00	3.96E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	11886	0.140333333					641.4666667	58.27114864	120.85232	146.7921	0.030873333	2.68E+02	2.07E+00	2.52E+00	5.30E-04	*4.59*	0.451488512	0.548396149	0.000115339
	Antimony	1.244	0.0006					0.098730159	0.148650889	0.018600762	0.0153634	0.000132	3.41E-02	1.25E-01	1.03E-01	8.88E-04	*0.23*	0.545538291	0.450590305	0.003871403
X	Arsenic	41.265	0.012683333					0.529819297	0.149840096	0.099817956	0.259907603	0.002790333	3.63E-01	6.66E-01	1.73E+00	1.86E-02	*2.42*	0.275347807	0.71695506	0.007697134
	Barium	40.225	0.032083333					2.298571429	11.83503851	0.433050857	0.49677875	0.007058333	9.37E-01	3.66E-02	4.20E-02	5.96E-04	*0.08*	0.462222683	0.53024351	0.007533807
	Beryllium	1.007	4.56667E-05					0.079920635	1.450568131	0.015057048	0.01243645	1.00467E-05	2.75E-02	1.04E-02	8.57E-03	6.93E-06	*0.02*	0.547458446	0.452176267	0.000365287
	Cadmium	5.17	0.00056					4.852694502	2.120009672	0.914247644	0.0638495	0.0001232	9.78E-01	4.31E-01	3.01E-02	5.81E-05	*0.46*	0.934602975	0.065271082	0.000125943
	Chromium	217.25	0.0062					1.323024068	19.78047452	0.249257734	2.6830375	0.001364	2.93E+00	1.26E-02	1.36E-01	6.90E-05	*0.15*	0.084964788	0.914570264	0.000464948
	Cobalt	6.044	0.000985					0.47968254	10.99	0.09037219	0.0746434	0.0002167	1.65E-01	8.22E-03	6.79E-03	1.97E-05	*0.02*	0.546940251	0.451748262	0.001311487
	Copper	389.02	0.007183333					4.091243067	33.43	0.770790194	4.804397	0.001580333	5.58E+00	2.31E-02	1.44E-01	4.73E-05	*0.17*	0.13821451	0.861502112	0.000283378
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	11059	1.209333333					667.0507937	7.01	125.6723695	136.57865	0.266053333	2.63E+02	1.79E+01	1.95E+01	3.79E-02	*37.44*	0.478720748	0.520265781	0.001013471
	Lead	317.41	0.003308333					13.32880032	17.58264402	2.511145979	3.9200135	0.000727833	6.43E+00	1.43E-01	2.23E-01	4.14E-05	*0.37*	0.390421327	0.609465513	0.00011316
	Manganese	338.345	0.5925					3.752654302	193.41	0.70700007	4.17856075	0.13035	5.02E+00	3.66E-03	2.16E-02	6.74E-04	*0.03*	0.140951483	0.833061213	0.025987304
	Mercury	1.532	0.000115833					0.084229178	0.070330576	0.015868777	0.0189202	2.54833E-05	3.48E-02	2.26E-01	2.69E-01	3.62E-04	*0.50*	0.45580994	0.543458085	0.000731975
	Nickel	9.175	0.001633333					3.526002919	87.91322008	0.66429895	0.11331125	0.000359333	7.78E-01	7.56E-03	1.29E-03	4.09E-06	*0.01*	0.85388813	0.145649984	0.000461886
	Selenium	3.71	0.00075					0.384980238	0.4395661	0.072530277	0.0458185	0.000165	1.19E-01	1.65E-01	1.04E-01	3.75E-04	*0.27*	0.611998695	0.386609061	0.001392243
	Silver	0.3265	0.000375					0.025912698	398.246887	0.004881952	0.004032275	0.0000825	9.00E-03	1.23E-05	1.01E-05	2.07E-07	*0.00*	0.542636469	0.44819353	0.009170001
	Thallium	1.0455	0.00085					0.08297619	0.164354697	0.015632714	0.012911925	0.000187	2.87E-02	9.51E-02	7.86E-02	1.14E-03	*0.17*	0.544094061	0.449397435	0.006508504
X	Vanadium	53.55	0.000933333					4.25	0.428489138	0.8007	0.6613425	0.000205333	1.46E+00	1.87E+00	1.54E+00	4.79E-04	*3.41*	0.547581594	0.452277983	0.000140423
	Zinc	422.06	0.05855					98.6184806	351.6528803	18.57972174	5.212441	0.012881	2.38E+01	5.28E-02	1.48E-02	3.66E-05	*0.07*	0.780495173	0.218963723	0.000541104

Table E.1-62. Average Exposure Calculations for Shrew - Station CB-02

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.0025					0	6844.044183	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	8.04E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0015					0	8.324449805	0	0	0.00033	3.30E-04	0.00E+00	0.00E+00	3.96E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	4438.5	0.140333333					239.5380952	58.27114864	45.12897714	54.815475	0.030873333	1.00E+02	7.74E-01	9.41E-01	5.30E-04	*1.72*	0.451401153	0.548290038	0.00030881
	Antimony	1.539	0.0006					0.122142857	0.148650889	0.023011714	0.01900665	0.000132	4.22E-02	1.55E-01	1.28E-01	8.88E-04	*0.28*	0.545943426	0.450924928	0.003131646
X	Arsenic	27.105	0.012683333					0.393785638	0.149840096	0.074189214	0.170720843	0.002790333	2.48E-01	4.95E-01	1.14E+00	1.86E-02	*1.65*	0.299511899	0.689223148	0.011264953
	Barium	78.5	0.032083333					4.485714286	11.83503851	0.845108571	0.969475	0.007058333	1.82E+00	7.14E-02	8.19E-02	5.96E-04	*0.15*	0.463926839	0.532198451	0.00387471
	Beryllium	0.287	4.56667E-05					0.022777778	1.450568131	0.004291333	0.00354445	1.00467E-05	7.85E-03	2.96E-03	2.44E-03	6.93E-06	*0.01*	0.546957215	0.451762273	0.001280511
	Cadmium	3.091	0.00056					3.223937995	2.120009672	0.607389918	0.03817385	0.0001232	6.46E-01	2.87E-01	1.80E-02	5.81E-05	*0.30*	0.9406879	0.059121295	0.000190805
	Chromium	106.06	0.0062					1.388136237	19.78047452	0.261524867	1.309841	0.001364	1.57E+00	1.32E-02	6.62E-02	6.90E-05	*0.08*	0.166287213	0.832845505	0.000867282
	Cobalt	4.235	0.000985					0.336111111	10.99	0.063323333	0.05230225	0.0002167	1.16E-01	5.76E-03	4.76E-03	1.97E-05	*0.01*	0.546634023	0.451495331	0.001870647
	Copper	75.275	0.007183333					2.651786142	33.43	0.499596509	0.92964625	0.001580333	1.43E+00	1.49E-02	2.78E-02	4.73E-05	*0.04*	0.349167211	0.649728296	0.001104492
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	5913.5	1.209333333					356.6873016	7.01	67.19988762	73.031725	0.266053333	1.40E+02	9.58E+00	1.04E+01	3.79E-02	*20.04*	0.478298961	0.51980739	0.001893649
	Lead	118.855	0.003308333					6.032847181	17.58264402	1.136588409	1.46785925	0.000727833	2.61E+00	6.46E-02	8.35E-02	4.14E-05	*0.15*	0.436280939	0.563439682	0.00027938
	Manganese	55.99	0.5925					1.100339098	193.41	0.207303886	0.6914765	0.13035	1.03E+00	1.07E-03	3.58E-03	6.74E-04	*0.01*	0.201435978	0.671903686	0.126660336
	Mercury	0.2405	0.000115833					0.067697652	0.070330576	0.012754238	0.002970175	2.54833E-05	1.57E-02	1.81E-01	4.22E-02	3.62E-04	*0.22*	0.809798216	0.188583785	0.001618
	Nickel	8.275	0.001633333					3.621934279	87.91322008	0.682372418	0.10219625	0.000359333	7.85E-01	7.76E-03	1.16E-03	4.09E-06	*0.01*	0.869343961	0.130198247	0.000457791
	Selenium	1.4485	0.00075					0.193214904	0.4395661	0.036401688	0.017888975	0.000165	5.45E-02	8.28E-02	4.07E-02	3.75E-04	*0.12*	0.668464692	0.32850532	0.003029988
	Silver	0	0.000375					0	398.246887	0	0	0.0000825	0.00E+00	0.00E+00	0.00E+00	2.07E-07	*0.00*	0	0	1
	Thallium	0.428	0.00085					0.033968254	0.164354697	0.006399619	0.0052858	0.000187	1.19E-02	3.89E-02	3.22E-02	1.14E-03	*0.07*	0.539032443	0.445216765	0.015750792
X	Vanadium	26.65	0.000933333					2.115079365	0.428489138	0.398480952	0.3291275	0.000205333	7.28E-01	9.30E-01	7.68E-01	4.79E-04	*1.70*	0.547503991	0.452213886	0.000282123
	Zinc	249.95	0.05855					83.04842535	351.6528803	15.64632334	3.0868825	0.012881	1.87E+01	4.45E-02	8.78E-03	3.66E-05	*0.05*	0.83464477	0.1646681	0.00068713

Table E.1-63. Average Exposure Calculations for Shrew - Station CB-03

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.0025					0	6844.044183	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	8.04E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0015					0	8.324449805	0	0	0.00033	3.30E-04	0.00E+00	0.00E+00	3.96E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	9264.166667	0.140333333					499.9708995	58.27114864	94.19451746	114.4124583	0.030873333	2.09E+02	1.62E+00	1.96E+00	5.30E-04	*3.58*	0.451473776	0.548378249	0.000147976
	Antimony	1.5320833	0.0006					0.121593913	0.148650889	0.022908293	0.018921229	0.000132	4.20E-02	1.54E-01	1.27E-01	8.88E-04	*0.28*	0.545935708	0.450918553	0.003145739
X	Arsenic	272.4833333	0.012683333					2.008523791	0.149840096	0.378405882	1.716236275	0.002790333	2.10E+00	2.53E+00	1.15E+01	1.86E-02	*14.00*	0.180413855	0.818255788	0.001330357
	Barium	51.5125	0.032083333					2.943571429	11.83503851	0.554568857	0.636179375	0.007058333	1.20E+00	4.69E-02	5.38E-02	5.96E-04	*0.10*	0.462986991	0.531120294	0.005892716
	Beryllium	0.5408333	4.56667E-05					0.042923278	1.450568131	0.008086746	0.006679291	1.00467E-05	1.48E-02	5.57E-03	4.60E-03	6.93E-06	*0.01*	0.54728613	0.452033942	0.000679928
	Cadmium	7.3891667	0.00056					6.446015755	2.120009672	1.214429368	0.091256209	0.0001232	1.31E+00	5.73E-01	4.30E-02	5.81E-05	*0.62*	0.930020834	0.069884818	9.43477E-05
	Chromium	456.7291667	0.0062					1.258771538	19.78047452	0.237152558	5.640605209	0.001364	5.88E+00	1.20E-02	2.85E-01	6.90E-05	*0.30*	0.040338093	0.9594299	0.000232007
	Cobalt	19.2458333	0.000985					1.527447087	10.99	0.287771031	0.237686041	0.0002167	5.26E-01	2.62E-02	2.16E-02	1.97E-05	*0.05*	0.547432735	0.452155032	0.000412233
	Copper	269.0041667	0.007183333					3.711582097	33.43	0.699262067	3.322201459	0.001580333	4.02E+00	2.09E-02	9.94E-02	4.73E-05	*0.12*	0.173814179	0.825793	0.00039282
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	30995.83333	1.209333333					1869.589947	7.01	352.230746	382.7985417	0.266053333	7.35E+02	5.02E+01	5.46E+01	3.79E-02	*104.88*	0.479033018	0.52060515	0.000361832
	Lead	196.4083333	0.003308333					9.048222732	17.58264402	1.704685163	2.425642916	0.000727833	4.13E+00	9.70E-02	1.38E-01	4.14E-05	*0.23*	0.412651196	0.587172618	0.000176186
	Manganese	283.05	0.5925					3.322659788	193.41	0.625989104	3.4956675	0.13035	4.25E+00	3.24E-03	1.81E-02	6.74E-04	*0.02*	0.147222044	0.822121842	0.030656114
	Mercury	1.2177917	0.000115833					0.081978439	0.070330576	0.015444738	0.015039727	2.54833E-05	3.05E-02	2.20E-01	2.14E-01	3.62E-04	*0.43*	0.506219726	0.492945028	0.000835246
	Nickel	25.55	0.001633333					2.701709267	87.91322008	0.509002026	0.3155425	0.000359333	8.25E-01	5.79E-03	3.59E-03	4.09E-06	*0.01*	0.617044059	0.382520334	0.000435606
	Selenium	3.7809091	0.00075					0.390360083	0.4395661	0.07354384	0.046694227	0.000165	1.20E-01	1.67E-01	1.06E-01	3.75E-04	*0.27*	0.610813673	0.38781593	0.001370397
	Silver	0.51375	0.000375					0.04077381	398.246887	0.007681786	0.006344813	0.0000825	1.41E-02	1.93E-05	1.59E-05	2.07E-07	*0.00*	0.54445618	0.449696529	0.005847291
	Thallium	0.7054545	0.00085					0.055988452	0.164354697	0.010548224	0.008712363	0.000187	1.94E-02	6.42E-02	5.30E-02	1.14E-03	*0.12*	0.54239244	0.447991972	0.009615589
X	Vanadium	47.0291667	0.000933333					3.732473548	0.428489138	0.703198016	0.580810209	0.000205333	1.28E+00	1.64E+00	1.36E+00	4.79E-04	*3.00*	0.547570933	0.452269177	0.00015989
	Zinc	1147.75	0.05855					136.9195568	351.6528803	25.7956445	14.1747125	0.012881	4.00E+01	7.34E-02	4.03E-02	3.66E-05	*0.11*	0.645161467	0.354516373	0.00032216

Table E.1-64. Average Exposure Calculations for Shrew - Station CB-04

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.0025					0	6844.044183	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	8.04E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0015					0	8.324449805	0	0	0.00033	3.30E-04	0.00E+00	0.00E+00	3.96E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.0000016*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	9437	0.140333333					509.2984127	58.27114864	95.95182095	116.54695	0.030873333	2.13E+02	1.65E+00	2.00E+00	5.30E-04	*3.65*	0.451474999	0.548379735	0.000145266
	Antimony	3.552	0.0006					0.281904762	0.148650889	0.053110857	0.0438672	0.000132	9.71E-02	3.57E-01	2.95E-01	8.88E-04	*0.65*	0.546914076	0.451726642	0.001359282
X	Arsenic	111.5	0.012683333					1.068816229	0.149840096	0.201364978	0.70228275	0.002790333	9.06E-01	1.34E+00	4.69E+00	1.86E-02	*6.05*	0.222149738	0.774771913	0.00307835
	Barium	61.155	0.032083333					3.494571429	11.83503851	0.658377257	0.75526425	0.007058333	1.42E+00	5.56E-02	6.38E-02	5.96E-04	*0.12*	0.463417563	0.531614229	0.004968209
	Beryllium	0.622	4.56667E-05					0.049365079	1.450568131	0.009300381	0.0076817	1.00467E-05	1.70E-02	6.41E-03	5.30E-03	6.93E-06	*0.01*	0.547334693	0.452074053	0.000591255
	Cadmium	3.954	0.00056					3.921047644	2.120009672	0.738725376	0.0488319	0.0001232	7.88E-01	3.48E-01	2.30E-02	5.81E-05	*0.37*	0.937849037	0.061994554	0.000156409
	Chromium	167.14	0.0062					1.346473045	19.78047452	0.253675522	2.064179	0.001364	2.32E+00	1.28E-02	1.04E-01	6.90E-05	*0.12*	0.109379741	0.89003213	0.000588129
	Cobalt	8.765	0.000985					0.695634921	10.99	0.131057619	0.10824775	0.0002167	2.40E-01	1.19E-02	9.85E-03	1.97E-05	*0.02*	0.547163022	0.45193226	0.000904718
	Copper	184.6	0.007183333					3.360375903	33.43	0.63309482	2.27981	0.001580333	2.91E+00	1.89E-02	6.82E-02	4.73E-05	*0.09*	0.217223553	0.782234213	0.000542234
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	23967	1.209333333					1445.628571	7.01	272.3564229	295.99245	0.266053333	5.69E+02	3.88E+01	4.22E+01	3.79E-02	*81.10*	0.47898219	0.520549912	0.000467897
	Lead	208.46	0.003308333					9.49367982	17.58264402	1.788609278	2.574481	0.000727833	4.36E+00	1.02E-01	1.46E-01	4.14E-05	*0.25*	0.409872555	0.589960657	0.000166788
	Manganese	403.9	0.5925					4.234420345	193.41	0.797764793	4.988165	0.13035	5.92E+00	4.12E-03	2.58E-02	6.74E-04	*0.03*	0.134842303	0.84312527	0.022032427
	Mercury	0.727	0.000115833					0.077137061	0.070330576	0.014532622	0.00897845	2.54833E-05	2.35E-02	2.07E-01	1.28E-01	3.62E-04	*0.33*	0.617448982	0.381468305	0.001082713
	Nickel	41.315	0.001633333					2.384362217	87.91322008	0.449213842	0.51024025	0.000359333	9.60E-01	5.11E-03	5.80E-03	4.09E-06	*0.01*	0.468022045	0.531603577	0.000374378
	Selenium	3.024	0.00075					0.331400997	0.4395661	0.062435948	0.0373464	0.000165	9.99E-02	1.42E-01	8.50E-02	3.75E-04	*0.23*	0.62468839	0.37366074	0.001650869
	Silver	1.317	0.000375					0.10452381	398.246887	0.019692286	0.01626495	0.0000825	3.60E-02	4.94E-05	4.08E-05	2.07E-07	*0.00*	0.546404831	0.451306029	0.00228914
	Thallium	1.1295	0.00085					0.089642857	0.164354697	0.016888714	0.013949325	0.000187	3.10E-02	1.03E-01	8.49E-02	1.14E-03	*0.19*	0.544357547	0.449615063	0.00602739
X	Vanadium	55.305	0.000933333					4.389285714	0.428489138	0.826941429	0.68301675	0.000205333	1.51E+00	1.93E+00	1.59E+00	4.79E-04	*3.52*	0.547584034	0.452279998	0.000135968
	Zinc	1397.45	0.05855					146.0514485	351.6528803	27.51609291	17.2585075	0.012881	4.48E+01	7.82E-02	4.91E-02	3.66E-05	*0.13*	0.614370178	0.38534222	0.000287603

Table E.1-65. Average Exposure Calculations for Shrew - Station CB-05

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.0025					0	6844.044183	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	8.04E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0015					0	8.324449805	0	0	0.00033	3.30E-04	0.00E+00	0.00E+00	3.96E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	5769	0.140333333					311.3428571	58.27114864	58.65699429	71.24715	0.030873333	1.30E+02	1.01E+00	1.22E+00	5.30E-04	*2.23*	0.451433304	0.54832909	0.000237606
	Antimony	0.9135	0.0006					0.0725	0.148650889	0.013659	0.011281725	0.000132	2.51E-02	9.19E-02	7.59E-02	8.88E-04	*0.17*	0.544775249	0.449960066	0.005264685
X	Arsenic	30.025	0.012683333					0.423282191	0.149840096	0.079746365	0.189112463	0.002790333	2.72E-01	5.32E-01	1.26E+00	1.86E-02	*1.81*	0.293563818	0.696164354	0.010271828
	Barium	26.755	0.032083333					1.528857143	11.83503851	0.288036686	0.33042425	0.007058333	6.26E-01	2.43E-02	2.79E-02	5.96E-04	*0.05*	0.46047612	0.528239922	0.011283958
	Beryllium	0.2595	4.56667E-05					0.020595238	1.450568131	0.003880143	0.003204825	1.00467E-05	7.10E-03	2.67E-03	2.21E-03	6.93E-06	*0.00*	0.546883004	0.451700978	0.001416019
	Cadmium	0.494	0.00056					0.750362122	2.120009672	0.141368224	0.0061009	0.0001232	1.48E-01	6.67E-02	2.88E-03	5.81E-05	*0.07*	0.957829108	0.041336161	0.000834732
	Chromium	56.29	0.0062					1.448322096	19.78047452	0.272863883	0.6951815	0.001364	9.69E-01	1.38E-02	3.51E-02	6.90E-05	*0.05*	0.281474357	0.717118601	0.001407042
	Cobalt	5.64	0.000985					0.447619048	10.99	0.084331429	0.069654	0.0002167	1.54E-01	7.67E-03	6.34E-03	1.97E-05	*0.01*	0.546888875	0.451705827	0.001405298
	Copper	40.16	0.007183333					2.246488675	33.43	0.423238466	0.495976	0.001580333	9.21E-01	1.27E-02	1.48E-02	4.73E-05	*0.03*	0.459644718	0.538639011	0.001716271
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	10107	1.209333333					609.6285714	7.01	114.8540229	124.82145	0.266053333	2.40E+02	1.64E+01	1.78E+01	3.79E-02	*34.22*	0.478675053	0.520216121	0.001108826
	Lead	50.34	0.003308333					3.01597128	17.58264402	0.568208989	0.621699	0.000727833	1.19E+00	3.23E-02	3.54E-02	4.14E-05	*0.07*	0.477231558	0.522157144	0.000611298
	Manganese	193.85	0.5925					2.566651365	193.41	0.483557117	2.3940475	0.13035	3.01E+00	2.50E-03	1.24E-02	6.74E-04	*0.02*	0.160759446	0.795905459	0.043335095
	Mercury	0.174	0.000115833					0.065160865	0.070330576	0.012276307	0.0021489	2.54833E-05	1.45E-02	1.75E-01	3.06E-02	3.62E-04	*0.21*	0.849530833	0.148705699	0.001763468
	Nickel	9.755	0.001633333					3.470253136	87.91322008	0.653795691	0.12047425	0.000359333	7.75E-01	7.44E-03	1.37E-03	4.09E-06	*0.01*	0.844011081	0.155525042	0.000463878
	Selenium	0.5155	0.00075					0.090604753	0.4395661	0.017069936	0.006366425	0.000165	2.36E-02	3.88E-02	1.45E-02	3.75E-04	*0.05*	0.723260657	0.269748221	0.006991122
	Silver	0.1155	0.000375					0.009166667	398.246887	0.001727	0.001426425	0.0000825	3.24E-03	4.34E-06	3.58E-06	2.07E-07	*0.00*	0.533695929	0.440809042	0.025495028
	Thallium	0.781	0.00085					0.061984127	0.164354697	0.01167781	0.00964535	0.000187	2.15E-02	7.11E-02	5.87E-02	1.14E-03	*0.13*	0.542897393	0.448409041	0.008693566
X	Vanadium	22.72	0.000933333					1.803174603	0.428489138	0.339718095	0.280592	0.000205333	6.21E-01	7.93E-01	6.55E-01	4.79E-04	*1.45*	0.547477274	0.452191818	0.000330908
	Zinc	129.67	0.05855					66.96485497	351.6528803	12.61617868	1.6014245	0.012881	1.42E+01	3.59E-02	4.55E-03	3.66E-05	*0.04*	0.886560044	0.112534787	0.000905169

Table E.1-66. Average Exposure Calculations for Shrew - Station CB-06

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
Volatile Organics																				
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.0025					0	6844.044183	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	8.04E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0015					0	8.324449805	0	0	0.00033	3.30E-04	0.00E+00	0.00E+00	3.96E-05	*0.00*	0	0	1
Semivolatile Organics																				
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
Pesticides and PCBs																				
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
Inorganics																				
X	Aluminum	7194.5	0.140333333					388.2746032	58.27114864	73.15093524	88.852075	0.030873333	1.62E+02	1.26E+00	1.52E+00	5.30E-04	*2.78*	0.451454558	0.548354906	0.000190536
	Antimony	1.72	0.0006					0.136507937	0.148650889	0.025718095	0.021242	0.000132	4.71E-02	1.73E-01	1.43E-01	8.88E-04	*0.32*	0.546123402	0.45107358	0.002803018
X	Arsenic	98.04	0.012683333					0.976017748	0.149840096	0.183881744	0.61750494	0.002790333	8.04E-01	1.23E+00	4.12E+00	1.86E-02	*5.37*	0.228658293	0.767871907	0.0034698
	Barium	40.295	0.032083333					2.302571429	11.83503851	0.433804457	0.49764325	0.007058333	9.39E-01	3.67E-02	4.20E-02	5.96E-04	*0.08*	0.462228732	0.53025045	0.007520818
	Beryllium	0.273	4.56667E-05					0.021666667	1.450568131	0.004082	0.00337155	1.00467E-05	7.46E-03	2.81E-03	2.32E-03	6.93E-06	*0.01*	0.546921301	0.451732609	0.00134609
	Cadmium	8.583	0.00056					7.261077336	2.120009672	1.36798697	0.10600005	0.0001232	1.47E+00	6.45E-01	5.00E-02	5.81E-05	*0.70*	0.928008606	0.071907818	8.35758E-05
	Chromium	280.29	0.0062					1.300631719	19.78047452	0.245039016	3.4615815	0.001364	3.71E+00	1.24E-02	1.75E-01	6.90E-05	*0.19*	0.066084153	0.933547992	0.000367855
	Cobalt	9.18	0.000985					0.728571429	10.99	0.137262857	0.113373	0.0002167	2.51E-01	1.25E-02	1.03E-02	1.97E-05	*0.02*	0.547185401	0.451950745	0.000863854
	Copper	179.6	0.007183333					3.336103883	33.43	0.628521971	2.21806	0.001580333	2.85E+00	1.88E-02	6.63E-02	4.73E-05	*0.09*	0.220676318	0.778768821	0.000554861
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	12693	1.209333333					765.6095238	7.01	144.2408343	156.75855	0.266053333	3.01E+02	2.06E+01	2.24E+01	3.79E-02	*42.97*	0.478783213	0.520333667	0.000883119
	Lead	136.96	0.003308333					6.764168078	17.58264402	1.274369266	1.691456	0.000727833	2.97E+00	7.25E-02	9.62E-02	4.14E-05	*0.17*	0.429579119	0.570175535	0.000245346
	Manganese	78.815	0.5925					1.389320554	193.41	0.261747992	0.97336525	0.13035	1.37E+00	1.35E-03	5.03E-03	6.74E-04	*0.01*	0.191691716	0.712846175	0.095462108
	Mercury	0.231	0.000115833					0.067376468	0.070330576	0.012693727	0.00285285	2.54833E-05	1.56E-02	1.80E-01	4.06E-02	3.62E-04	*0.22*	0.8151604	0.183203122	0.001636478
	Nickel	18.625	0.001633333					2.933156355	87.91322008	0.552606657	0.23001875	0.000359333	7.83E-01	6.29E-03	2.62E-03	4.09E-06	*0.01*	0.705769383	0.293771689	0.000458928
	Selenium	1.39	0.00075					0.187463712	0.4395661	0.035318163	0.0171665	0.000165	5.26E-02	8.03E-02	3.91E-02	3.75E-04	*0.12*	0.670814609	0.326051468	0.003133923
	Silver	0.1295	0.000375					0.010277778	398.246887	0.001936333	0.001599325	0.0000825	3.62E-03	4.86E-06	4.02E-06	2.07E-07	*0.00*	0.535170978	0.442027367	0.022801656
	Thallium	3.215	0.00085					0.25515873	0.164354697	0.048071905	0.03970525	0.000187	8.80E-02	2.92E-01	2.42E-01	1.14E-03	*0.54*	0.54649425	0.451379884	0.002125866
X	Vanadium	53.025	0.000933333					4.208333333	0.428489138	0.79285	0.65485875	0.000205333	1.45E+00	1.85E+00	1.53E+00	4.79E-04	*3.38*	0.547580833	0.452277354	0.000141813
	Zinc	1420.5	0.05855					146.837268	351.6528803	27.66414129	17.543175	0.012881	4.52E+01	7.87E-02	4.99E-02	3.66E-05	*0.13*	0.611765161	0.387949988	0.000284851

Table E.1-67. Average Exposure Calculations for Shrew - Station DA

	Mean Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.0025					0	6844.044183	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	8.04E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0015					0	8.324449805	0	0	0.00033	3.30E-04	0.00E+00	0.00E+00	3.96E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	6979	0.140333333					376.6444444	58.27114864	70.95981333	86.19065	0.030873333	1.57E+02	1.22E+00	1.48E+00	5.30E-04	*2.70*	0.451451902	0.54835168	0.000196419
	Antimony	1.01	0.0006					0.08015873	0.148650889	0.015101905	0.0124735	0.000132	2.77E-02	1.02E-01	8.39E-02	8.88E-04	*0.19*	0.545049415	0.450186515	0.004764069
X	Arsenic	98.63	0.012683333					0.980160871	0.149840096	0.184662308	0.621221055	0.002790333	8.09E-01	1.23E+00	4.15E+00	1.86E-02	*5.40*	0.228352064	0.76819743	0.003450506
	Barium	35.29	0.032083333					2.016571429	11.83503851	0.379922057	0.4358315	0.007058333	8.23E-01	3.21E-02	3.68E-02	5.96E-04	*0.07*	0.461736226	0.529685466	0.008578307
	Beryllium	0.221	4.56667E-05					0.017539683	1.450568131	0.003304476	0.00272935	1.00467E-05	6.04E-03	2.28E-03	1.88E-03	6.93E-06	*0.00*	0.546748131	0.451589579	0.001662291
	Cadmium	1.352	0.00056					1.670646035	2.120009672	0.314749713	0.0166972	0.0001232	3.32E-01	1.48E-01	7.88E-03	5.81E-05	*0.16*	0.949270458	0.050357977	0.000371565
	Chromium	193.25	0.0062					1.333441735	19.78047452	0.251220423	2.3866375	0.001364	2.64E+00	1.27E-02	1.21E-01	6.90E-05	*0.13*	0.095187305	0.904295876	0.000516819
	Cobalt	9.02	0.000985					0.715873016	10.99	0.134870476	0.111397	0.0002167	2.46E-01	1.23E-02	1.01E-02	1.97E-05	*0.02*	0.547177017	0.451943819	0.000879164
	Copper	145.18	0.007183333					3.153886697	33.43	0.594192254	1.792973	0.001580333	2.39E+00	1.78E-02	5.36E-02	4.73E-05	*0.07*	0.248746563	0.750591863	0.000661575
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	16868	1.209333333					1017.434921	7.01	191.684739	208.3198	0.266053333	4.00E+02	2.73E+01	2.97E+01	3.79E-02	*57.09*	0.478887889	0.520447427	0.000664684
	Lead	134.22	0.003308333					6.654749997	17.58264402	1.253754899	1.657617	0.000727833	2.91E+00	7.13E-02	9.43E-02	4.14E-05	*0.17*	0.430532954	0.569217112	0.000249934
	Manganese	791.28	0.5925					6.698481873	193.41	1.261993985	9.772308	0.13035	1.12E+01	6.52E-03	5.05E-02	6.74E-04	*0.06*	0.11303478	0.875289979	0.011675241
	Mercury	1.189	0.000115833					0.081747313	0.070330576	0.015401194	0.01468415	2.54833E-05	3.01E-02	2.19E-01	2.09E-01	3.62E-04	*0.43*	0.511483584	0.487670098	0.000846318
	Nickel	11.26	0.001633333					3.343183888	87.91322008	0.629855844	0.139061	0.000359333	7.69E-01	7.16E-03	1.58E-03	4.09E-06	*0.01*	0.818764265	0.180768629	0.000467106
	Selenium	1.052	0.00075					0.152835732	0.4395661	0.028794252	0.0129922	0.000165	4.20E-02	6.55E-02	2.96E-02	3.75E-04	*0.10*	0.686370807	0.309696075	0.003933118
	Silver	0.146	0.000375					0.011587302	398.246887	0.002183048	0.0018031	0.0000825	4.07E-03	5.48E-06	4.53E-06	2.07E-07	*0.00*	0.536553623	0.443169369	0.020277008
	Thallium	1.47	0.00085					0.116666667	0.164354697	0.02198	0.0181545	0.000187	4.03E-02	1.34E-01	1.10E-01	1.14E-03	*0.25*	0.545118609	0.450243667	0.004637724
X	Vanadium	26.66	0.000933333					2.115873016	0.428489138	0.398630476	0.329251	0.000205333	7.28E-01	9.30E-01	7.68E-01	4.79E-04	*1.70*	0.547504049	0.452213933	0.000282018
	Zinc	274.54	0.05855					85.64425154	351.6528803	16.13537699	3.390569	0.012881	1.95E+01	4.59E-02	9.64E-03	3.66E-05	*0.06*	0.825810935	0.173529813	0.000659251

Table E.1-68. Average Exposure Calculations for Shrew - Station NRSE

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
Volatile Organics																				
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.000583333					0	6844.044183	0	0	0.000128333	1.28E-04	0.00E+00	0.00E+00	1.88E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0005					0	8.324449805	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.32E-05	*0.00*	0	0	1
Semivolatile Organics																				
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
Pesticides and PCBs																				
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	2.17286E-05					0	5.45	0	0	4.78029E-06	4.78E-06	0.00E+00	0.00E+00	8.78E-07	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	2.16286E-05					0	5.45	0	0	4.75829E-06	4.76E-06	0.00E+00	0.00E+00	8.74E-07	*0.00*	0	0	1
Inorganics																				
X	Aluminum	6652	0.386114286					358.9968254	58.27114864	67.6350019	82.1522	0.084945143	1.50E+02	1.16E+00	1.41E+00	1.46E-03	*2.57*	0.451284667	0.548148549	0.000566784
	Antimony	0.92	0.000692857					0.073015873	0.148650889	0.01375619	0.011362	0.000152429	2.53E-02	9.25E-02	7.64E-02	1.03E-03	*0.17*	0.544355105	0.449613046	0.006031849
X	Arsenic	165.8	0.024585714					1.414339457	0.149840096	0.266461554	1.0442913	0.005408857	1.32E+00	1.78E+00	6.97E+00	3.61E-02	*8.78*	0.202453507	0.793436925	0.004109569
	Barium	41.18	0.037342857					2.353142857	11.83503851	0.443332114	0.508573	0.008215429	9.60E-01	3.75E-02	4.30E-02	6.94E-04	*0.08*	0.461746306	0.52969703	0.008556664
	Beryllium	0.502	6.37857E-05					0.03984127	1.450568131	0.007506095	0.0061997	1.40329E-05	1.37E-02	5.17E-03	4.27E-03	9.67E-06	*0.01*	0.547098345	0.45187884	0.001022816
	Cadmium	1.339	0.00043					1.657862596	2.120009672	0.312341313	0.01653665	0.0000946	3.29E-01	1.47E-01	7.80E-03	4.46E-05	*0.16*	0.949444872	0.050267566	0.000287562
	Chromium	186.2	0.025785714					1.336766065	19.78047452	0.251846727	2.29957	0.005672857	2.56E+00	1.27E-02	1.16E-01	2.87E-04	*0.13*	0.098489599	0.899291919	0.002218482
	Cobalt	6.44	0.00146857					0.511111111	10.99	0.096293333	0.079534	0.000323085	1.76E-01	8.76E-03	7.24E-03	2.94E-05	*0.02*	0.546654013	0.451511842	0.001834145
	Copper	202.06	0.021542857					3.441513724	33.43	0.648381186	2.495441	0.004739429	3.15E+00	1.94E-02	7.46E-02	1.42E-04	*0.09*	0.205929331	0.792565402	0.001505268
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	19420	2.401					1171.365079	7.01	220.685181	239.837	0.52822	4.61E+02	3.15E+01	3.42E+01	7.53E-02	*65.76*	0.478657389	0.520196923	0.001145688
	Lead	161.36	0.013072856					7.721017116	17.58264402	1.454639625	1.992796	0.002876028	3.45E+00	8.27E-02	1.13E-01	1.64E-04	*0.20*	0.421596589	0.577569855	0.000833556
	Manganese	163.88	0.469714286					2.288874096	193.41	0.43122388	2.023918	0.103337143	2.56E+00	2.23E-03	1.05E-02	5.34E-04	*0.01*	0.168546967	0.791062964	0.040390068
	Mercury	2.634	0.000203929					0.089791389	0.070330576	0.016916698	0.0325299	4.48643E-05	4.95E-02	2.41E-01	4.63E-01	6.38E-04	*0.70*	0.341810425	0.657283069	0.000906506
	Nickel	10.78	0.002842857					3.381266243	87.91322008	0.63703056	0.133133	0.000625429	7.71E-01	7.25E-03	1.51E-03	7.11E-06	*0.01*	0.826465569	0.172723017	0.000811413
	Selenium	1.752	0.000857143					0.222125214	0.4395661	0.04184839	0.0216372	0.000188571	6.37E-02	9.52E-02	4.92E-02	4.29E-04	*0.14*	0.657227189	0.339811305	0.002961506
	Silver	1.512	0.00025					0.12	398.246887	0.022608	0.0186732	0.000055	4.13E-02	5.68E-05	4.69E-05	1.38E-07	*0.00*	0.54692981	0.451739637	0.001330553
	Thallium	0.93	0.000778571					0.073809524	0.164354697	0.013905714	0.0114855	0.000171286	2.56E-02	8.46E-02	6.99E-02	1.04E-03	*0.16*	0.543988823	0.449310514	0.006700663
X	Vanadium	23.62	0.001878929					1.874603175	0.428489138	0.353175238	0.291707	0.000413364	6.45E-01	8.24E-01	6.81E-01	9.65E-04	*1.51*	0.547307679	0.45205174	0.000640581
	Zinc	342.6	0.127785714					92.09707245	351.6528803	17.35108845	4.23111	0.028112857	2.16E+01	4.93E-02	1.20E-02	7.99E-05	*0.06*	0.802907844	0.195791256	0.0013009

Table E.1-69. Average Exposure Calculations for Shrew - Station JY

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.000583333					0	6844.044183	0	0	0.000128333	0.00E+00	0.00E+00	0.00E+00	1.88E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	0.00E+00	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0005					0	8.324449805	0	0	0.00011	0.00E+00	0.00E+00	0.00E+00	1.32E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	0.00E+00	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	0.00E+00	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	0.00E+00	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	0.00E+00	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	2.17286E-05					0	5.45	0	0	4.78029E-06	0.00E+00	0.00E+00	0.00E+00	8.78E-07	*0.00*	0	0	1
	Aroclor 1248	0.1215	0.0005					0.264471539	1.55	0.049826438	0.001500525	0.00011	5.14E-02	3.22E-02	9.71E-04	7.12E-05	*0.03*	0.968689345	0.029172115	0.00213854
X	Aroclor 1254	0.906	0.0005					1.995404112	0.08	0.375934135	0.0111891	0.00011	3.87E-01	4.65E+00	1.38E-01	1.36E-03	*4.79*	0.970820945	0.028894989	0.000284067
	Aroclor 1260	0.99	0.0005					2.206164337	0.76	0.415641361	0.0122265	0.00011	4.28E-01	5.48E-01	1.61E-02	1.45E-04	*0.56*	0.971174911	0.028568067	0.000257023
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	0.00E+00	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	0.00E+00	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	0.00E+00	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	0.00E+00	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	0.00E+00	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	2.16286E-05					0	5.45	0	0	4.75829E-06	0.00E+00	0.00E+00	0.00E+00	8.74E-07	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	9592	0.386114286					517.6634921	58.27114864	97.5278019	118.4612	0.084945143	2.16E+02	1.67E+00	2.03E+00	1.46E-03	*3.71*	0.451363078	0.548243792	0.00039313
	Antimony	5.405	0.000692857					0.428968254	0.148650889	0.080817619	0.06675175	0.000152429	1.48E-01	5.44E-01	4.49E-01	1.03E-03	*0.99*	0.54709339	0.451874748	0.001031862
X	Arsenic	144.785	0.024585714					1.285280217	0.149840096	0.242146793	0.911928323	0.005408857	1.16E+00	1.62E+00	6.09E+00	3.61E-02	*7.74*	0.208840138	0.786494979	0.004664883
	Barium	126.68	0.037342857					7.238857143	11.83503851	1.363800686	1.564498	0.008215429	2.94E+00	1.15E-01	1.32E-01	6.94E-04	*0.25*	0.464428446	0.532773874	0.002797681
	Beryllium	0.463	6.37857E-05					0.036746032	1.450568131	0.006922952	0.00571805	1.40329E-05	1.27E-02	4.77E-03	3.94E-03	9.67E-06	*0.01*	0.547051213	0.451839911	0.001108875
	Cadmium	11.11	0.00043					8.914575014	2.120009672	1.679505933	0.1372085	0.0000946	1.82E+00	7.92E-01	6.47E-02	4.46E-05	*0.86*	0.924426234	0.075521696	5.20693E-05
	Chromium	838.56	0.025785714					1.208557348	19.78047452	0.227692204	10.356216	0.005672857	1.06E+01	1.15E-02	5.24E-01	2.87E-04	*0.54*	0.021501531	0.977962767	0.000535702
	Cobalt	12.59	0.00146857					0.999206349	10.99	0.188250476	0.1554865	0.000323085	3.44E-01	1.71E-02	1.41E-02	2.94E-05	*0.03*	0.547144226	0.451916736	0.000939038
	Copper	377.55	0.021542857					4.059045824	33.43	0.764724233	4.6627425	0.004739429	5.43E+00	2.29E-02	1.39E-01	1.42E-04	*0.16*	0.140775996	0.858351535	0.000872468
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	28394	2.401					1712.653968	7.01	322.6640076	350.6659	0.52822	6.74E+02	4.60E+01	5.00E+01	7.53E-02	*96.11*	0.478830772	0.520385354	0.000783874
	Lead	523.31	0.013072856					19.95362343	17.58264402	3.759262654	6.4628785	0.002876028	1.02E+01	2.14E-01	3.68E-01	1.64E-04	*0.58*	0.367653431	0.632065295	0.000281274
	Manganese	292.85	0.469714286					3.400691583	193.41	0.640690294	3.6166975	0.103337143	4.36E+00	3.31E-03	1.87E-02	5.34E-04	*0.02*	0.146922886	0.829379874	0.023697239
	Mercury	0.765	0.000203929					0.077602208	0.070330576	0.014620256	0.00944775	4.48643E-05	2.41E-02	2.08E-01	1.34E-01	6.38E-04	*0.34*	0.606325825	0.391813579	0.001860595
	Nickel	51.75	0.002842857					2.248762324	87.91322008	0.423666822	0.6391125	0.000625429	1.06E+00	4.82E-03	7.27E-03	7.11E-06	*0.01*	0.398405989	0.601005873	0.000588138
	Selenium	3.022	0.000857143					0.331240324	0.4395661	0.062405677	0.0373217	0.000188571	9.99E-02	1.42E-01	8.49E-02	4.29E-04	*0.23*	0.624581741	0.373530959	0.001887301
	Silver	0.7035	0.00025					0.055833333	398.246887	0.010519	0.008688225	0.000055	1.93E-02	2.64E-05	2.18E-05	1.38E-07	*0.00*	0.546094753	0.451049918	0.00285533
	Thallium	2.5277778	0.000778571					0.200617286	0.164354697	0.037796297	0.031218056	0.000171286	6.92E-02	2.30E-01	1.90E-01	1.04E-03	*0.42*	0.546302638	0.451221621	0.002475741
X	Vanadium	48.87	0.001878929					3.878571429	0.428489138	0.730722857	0.6035445	0.000413364	1.33E+00	1.71E+00	1.41E+00	9.65E-04	*3.11*	0.547488883	0.452201407	0.00030971
	Zinc	1819.5	0.127785714					159.257482	351.6528803	30.0041096	22.470825	0.028112857	5.25E+01	8.53E-02	6.39E-02	7.99E-05	*0.15*	0.571473677	0.427990871	0.000535452

Table E.1-70. Average Exposure Calculations for Shrew - Station NRSO

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.000583333					0	6844.044183	0	0	0.000128333	1.28E-04	0.00E+00	0.00E+00	1.88E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0005					0	8.324449805	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.32E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	2.17286E-05					0	5.45	0	0	4.78029E-06	4.78E-06	0.00E+00	0.00E+00	8.78E-07	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	2.16286E-05					0	5.45	0	0	4.75829E-06	4.76E-06	0.00E+00	0.00E+00	8.74E-07	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	4608	0.386114286					248.6857143	58.27114864	46.85238857	56.9088	0.084945143	1.04E+02	8.04E-01	9.77E-01	1.46E-03	*1.78*	0.451171237	0.548010773	0.00081799
	Antimony	0.89	0.000692857					0.070634921	0.148650889	0.013307619	0.0109915	0.000152429	2.45E-02	8.95E-02	7.39E-02	1.03E-03	*0.16*	0.544244449	0.449521649	0.006233902
X	Arsenic	111.42	0.024585714					1.068274766	0.149840096	0.201262966	0.70177887	0.005408857	9.08E-01	1.34E+00	4.68E+00	3.61E-02	*6.06*	0.221545283	0.772500781	0.005953936
	Barium	37.62	0.037342857					2.149714286	11.83503851	0.405006171	0.464607	0.008215429	8.78E-01	3.42E-02	3.93E-02	6.94E-04	*0.07*	0.461372723	0.52926847	0.009358807
	Beryllium	0.273	6.37857E-05					0.021666667	1.450568131	0.004082	0.00337155	1.40329E-05	7.47E-03	2.81E-03	2.32E-03	9.67E-06	*0.01*	0.546629355	0.451491475	0.00187917
	Cadmium	0.981	0.00043					1.294597716	2.120009672	0.24390221	0.01211535	0.0000946	2.56E-01	1.15E-01	5.71E-03	4.46E-05	*0.12*	0.95232577	0.047304861	0.000369369
	Chromium	97.87	0.025785714					1.395630744	19.78047452	0.262936832	1.2086945	0.005672857	1.48E+00	1.33E-02	6.11E-02	2.87E-04	*0.07*	0.177984219	0.818175775	0.003840006
	Cobalt	5.99	0.00146857					0.475396825	10.99	0.089564762	0.0739765	0.000323085	1.64E-01	8.15E-03	6.73E-03	2.94E-05	*0.01*	0.5465787	0.451449636	0.001971664
	Copper	96.88	0.021542857					2.834448072	33.43	0.534010017	1.196468	0.004739429	1.74E+00	1.60E-02	3.58E-02	1.42E-04	*0.05*	0.307748183	0.6895205	0.002731317
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	17216	2.401					1038.425397	7.01	195.6393448	212.6176	0.52822	4.09E+02	2.79E+01	3.03E+01	7.53E-02	*58.31*	0.478587194	0.520120636	0.00129217
	Lead	85.4	0.013072856					4.620295364	17.58264402	0.870463647	1.05469	0.002876028	1.93E+00	4.95E-02	6.00E-02	1.64E-04	*0.11*	0.451478345	0.547029962	0.001491693
	Manganese	307	0.469714286					3.511911577	193.41	0.661644141	3.79145	0.103337143	4.56E+00	3.42E-03	1.96E-02	5.34E-04	*0.02*	0.145211043	0.832109553	0.022679403
	Mercury	0.814	0.000203929					0.078172807	0.070330576	0.014727757	0.0100529	4.48643E-05	2.48E-02	2.09E-01	1.43E-01	6.38E-04	*0.35*	0.593250662	0.404942153	0.001807184
	Nickel	8.2	0.002842857					3.630518421	87.91322008	0.68398967	0.10127	0.000625429	7.86E-01	7.78E-03	1.15E-03	7.11E-06	*0.01*	0.870343096	0.128861077	0.000795827
	Selenium	0.922	0.000857143					0.138750683	0.4395661	0.026140629	0.0113867	0.000188571	3.77E-02	5.95E-02	2.59E-02	4.29E-04	*0.09*	0.693093062	0.301907152	0.004999786
	Silver	1.094	0.00025					0.086825397	398.246887	0.016357905	0.0135109	0.000055	2.99E-02	4.11E-05	3.39E-05	1.38E-07	*0.00*	0.546651901	0.451510097	0.001838002
	Thallium	0.9	0.000778571					0.071428571	0.164354697	0.013457143	0.011115	0.000171286	2.47E-02	8.19E-02	6.76E-02	1.04E-03	*0.15*	0.543867347	0.44921018	0.006922473
X	Vanadium	16.19	0.001878929					1.284920635	0.428489138	0.242079048	0.1999465	0.000413364	4.42E-01	5.65E-01	4.67E-01	9.65E-04	*1.03*	0.547146829	0.451918886	0.000934286
	Zinc	290	0.127785714					87.19711481	351.6528803	16.42793643	3.5815	0.028112857	2.00E+01	4.67E-02	1.02E-02	7.99E-05	*0.06*	0.819857568	0.178739423	0.001403009

Table E.1-71. Average Exposure Calculations for Shrew - Station KFSO

	Mean Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.0025					0	6844.044183	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	8.04E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0015					0	8.324449805	0	0	0.00033	3.30E-04	0.00E+00	0.00E+00	3.96E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	0.000025					0	5.45	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.01E-06	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	5604	0.140333333					302.4380952	58.27114864	56.97933714	69.2094	0.030873333	1.26E+02	9.78E-01	1.19E+00	5.30E-04	*2.17*	0.451430146	0.548325254	0.0002446
	Antimony	0.865	0.0006					0.068650794	0.148650889	0.01293381	0.01068275	0.000132	2.37E-02	8.70E-02	7.19E-02	8.88E-04	*0.16*	0.544614485	0.449827283	0.005558232
X	Arsenic	39.695	0.012683333					0.51550688	0.149840096	0.097121496	0.250018958	0.002790333	3.50E-01	6.48E-01	1.67E+00	1.86E-02	*2.34*	0.277544874	0.714481168	0.007973958
	Barium	50.985	0.032083333					2.913428571	11.83503851	0.548889943	0.62966475	0.007058333	1.19E+00	4.64E-02	5.32E-02	5.96E-04	*0.10*	0.462958765	0.531087915	0.00595332
	Beryllium	0.3645	4.56667E-05					0.028928571	1.450568131	0.005450143	0.004501575	1.00467E-05	9.96E-03	3.76E-03	3.10E-03	6.93E-06	*0.01*	0.547106172	0.451885305	0.001008524
	Cadmium	1.0435	0.00056					1.359751279	2.120009672	0.256177141	0.012887225	0.0001232	2.69E-01	1.21E-01	6.08E-03	5.81E-05	*0.13*	0.951667808	0.047874518	0.000457673
	Chromium	101.59	0.0062					1.392146808	19.78047452	0.262280459	1.2546365	0.001364	1.52E+00	1.33E-02	6.34E-02	6.90E-05	*0.08*	0.172748303	0.826353313	0.000898384
	Cobalt	9.025	0.000985					0.716269841	10.99	0.134945238	0.11145875	0.0002167	2.47E-01	1.23E-02	1.01E-02	1.97E-05	*0.02*	0.547177283	0.451944039	0.000878677
	Copper	90.89	0.007183333					2.787089698	33.43	0.525087699	1.1224915	0.001580333	1.65E+00	1.57E-02	3.36E-02	4.73E-05	*0.05*	0.318397152	0.680644582	0.000958266
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	14884	1.209333333					897.7650794	7.01	169.138941	183.8174	0.266053333	3.53E+02	2.41E+01	2.62E+01	3.79E-02	*50.38*	0.478845463	0.520401319	0.000753218
	Lead	160.31	0.003308333					7.680446202	17.58264402	1.446996064	1.9798285	0.000727833	3.43E+00	8.23E-02	1.13E-01	4.14E-05	*0.19*	0.422165994	0.577621658	0.000212348
	Manganese	638.3	0.5925					5.785516576	193.41	1.089991323	7.883005	0.13035	9.10E+00	5.64E-03	4.08E-02	6.74E-04	*0.05*	0.119735236	0.865945853	0.01431891
	Mercury	0.5875	0.000115833					0.075222014	0.070330576	0.014171827	0.007255625	2.54833E-05	2.15E-02	2.02E-01	1.03E-01	3.62E-04	*0.31*	0.660600842	0.338211286	0.001187871
	Nickel	11.805	0.001633333					3.302349915	87.91322008	0.622162724	0.14579175	0.000359333	7.68E-01	7.08E-03	1.66E-03	4.09E-06	*0.01*	0.809776836	0.189755473	0.000467691
	Selenium	0.39	0.00075					0.073847828	0.4395661	0.013912931	0.0048165	0.000165	1.89E-02	3.17E-02	1.10E-02	3.75E-04	*0.04*	0.736350882	0.254916386	0.008732732
	Silver	0.5935	0.000375					0.047103175	398.246887	0.008874238	0.007329725	0.0000825	1.63E-02	2.23E-05	1.84E-05	2.07E-07	*0.00*	0.544884303	0.45005014	0.005065557
	Thallium	0.875	0.00085					0.069444444	0.164354697	0.013083333	0.01080625	0.000187	2.41E-02	7.96E-02	6.57E-02	1.14E-03	*0.15*	0.543404899	0.448828218	0.007766883
X	Vanadium	25.175	0.000933333					1.998015873	0.428489138	0.37642619	0.31091125	0.000205333	6.88E-01	8.78E-01	7.26E-01	4.79E-04	*1.60*	0.547494941	0.452206411	0.000298648
	Zinc	334	0.05855					91.33230383	351.6528803	17.20700604	4.1249	0.012881	2.13E+01	4.89E-02	1.17E-02	3.66E-05	*0.06*	0.806145595	0.193250933	0.000603473

Table E.1-72. Average Exposure Calculations for Shrew - Station WSS

	Mean Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.000583333					0	6844.044183	0	0	0.000128333	1.28E-04	0.00E+00	0.00E+00	1.88E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0005					0	8.324449805	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.32E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	2.17286E-05					0	5.45	0	0	4.78029E-06	4.78E-06	0.00E+00	0.00E+00	8.78E-07	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	2.16286E-05					0	5.45	0	0	4.75829E-06	4.76E-06	0.00E+00	0.00E+00	8.74E-07	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	8088	0.386114286					436.4952381	58.27114864	82.23570286	99.8868	0.084945143	1.82E+02	1.41E+00	1.71E+00	1.46E-03	*3.13*	0.451330084	0.548203716	0.0004662
	Antimony	0.862	0.000692857					0.068412698	0.148650889	0.012888952	0.0106457	0.000152429	2.37E-02	8.67E-02	7.16E-02	1.03E-03	*0.16*	0.544134265	0.449430642	0.006435093
	Arsenic	8.93	0.024585714					0.179815912	0.149840096	0.033877318	0.056245605	0.005408857	9.55E-02	2.26E-01	3.75E-01	3.61E-02	*0.64*	0.354618305	0.588763289	0.056618406
	Barium	34.6	0.037342857					1.977142857	11.83503851	0.372493714	0.42731	0.008215429	8.08E-01	3.15E-02	3.61E-02	6.94E-04	*0.07*	0.46099615	0.528836481	0.010167369
	Beryllium	0.216	6.37857E-05					0.017142857	1.450568131	0.003229714	0.0026676	1.40329E-05	5.91E-03	2.23E-03	1.84E-03	9.67E-06	*0.00*	0.54635842	0.451267695	0.002373884
	Cadmium	0.195	0.00043					0.358373178	2.120009672	0.067517507	0.00240825	0.0000946	7.00E-02	3.18E-02	1.14E-03	4.46E-05	*0.03*	0.964255395	0.034393569	0.001351036
	Chromium	13.48	0.025785714					1.593877085	19.78047452	0.300286443	0.166478	0.005672857	4.72E-01	1.52E-02	8.42E-03	2.87E-04	*0.02*	0.635611208	0.352381152	0.01200764
	Cobalt	3.91	0.00146857					0.31031746	10.99	0.05846381	0.0482885	0.000323085	1.07E-01	5.32E-03	4.39E-03	2.94E-05	*0.01*	0.546006013	0.450976623	0.003017364
	Copper	26.74	0.021542857					2.017777647	33.43	0.380149309	0.330239	0.004739429	7.15E-01	1.14E-02	9.88E-03	1.42E-04	*0.02*	0.531582386	0.461790227	0.006627387
	Cyanide	0	0.0025					0	141.9	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.88E-06	*0.00*	0	0	1
X	Iron	9233	2.401					556.9111111	7.01	104.9220533	114.02755	0.52822	2.19E+02	1.50E+01	1.63E+01	7.53E-02	*31.30*	0.478053098	0.51954019	0.002406712
	Lead	67.87	0.013072856					3.838373774	17.58264402	0.723149619	0.8381945	0.002876028	1.56E+00	4.11E-02	4.77E-02	1.64E-04	*0.09*	0.462306805	0.535854561	0.001838634
	Manganese	147.52	0.469714286					2.130450849	193.41	0.40137694	1.821872	0.103337143	2.33E+00	2.08E-03	9.42E-03	5.34E-04	*0.01*	0.172517554	0.783066663	0.044415783
	Mercury	0.102	0.000203929					0.061181039	0.070330576	0.011526508	0.0012597	4.48643E-05	1.28E-02	1.64E-01	1.79E-02	6.38E-04	*0.18*	0.898327725	0.09817574	0.003496535
	Nickel	8.02	0.002842857					3.651530315	87.91322008	0.687948311	0.099047	0.000625429	7.88E-01	7.83E-03	1.13E-03	7.11E-06	*0.01*	0.873451239	0.125754687	0.000794073
	Selenium	0.545	0.000857143					0.094376964	0.4395661	0.01778062	0.00673075	0.000188571	2.47E-02	4.05E-02	1.53E-02	4.29E-04	*0.06*	0.719864865	0.272500646	0.007634489
	Silver	0.099	0.00025					0.007857143	398.246887	0.001480286	0.00122265	0.000055	2.76E-03	3.72E-06	3.07E-06	1.38E-07	*0.00*	0.536736845	0.443320703	0.019942452
	Thallium	0.77	0.000778571					0.061111111	0.164354697	0.011513333	0.0095095	0.000171286	2.12E-02	7.01E-02	5.79E-02	1.04E-03	*0.13*	0.543232456	0.448685788	0.008081756
X	Vanadium	18.72	0.001878929					1.485714286	0.428489138	0.279908571	0.231192	0.000413364	5.12E-01	6.53E-01	5.40E-01	9.65E-04	*1.19*	0.547215925	0.451975956	0.000808119
	Zinc	54.04	0.127785714					50.25348745	351.6528803	9.467757036	0.667394	0.028112857	1.02E+01	2.69E-02	1.90E-03	7.99E-05	*0.03*	0.931566585	0.06566729	0.002766125

Table E.1-73. Average Exposure Calculations for Shrew - Station WG

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0.082	0.000583333					0.032272287	6844.044183	0.006080099	0.0010127	0.000128333	7.22E-03	8.88E-07	1.48E-07	1.88E-08	*0.00*	0.84198692	0.140241168	0.017771912
	Tetrachloroethene	0.1185	0.0005					0.048139795	17	0.009069537	0.001463475	0.00011	1.06E-02	5.45E-04	8.79E-05	6.61E-06	*0.00*	0.852158867	0.137505713	0.01033542
	Trichloroethene	0.042	0.0005					0.017088942	8.324449805	0.003219557	0.0005187	0.00011	3.85E-03	3.87E-04	6.23E-05	1.32E-05	*0.00*	0.836627321	0.134788307	0.028584372
	Semivolatile Organics																			
	2-Methylnaphthalene	0.003	0.0025					0.001276842	170.89	0.000240557	0.00003705	0.00055	8.28E-04	1.41E-06	2.17E-07	3.22E-06	*0.00*	0.290665757	0.044767624	0.664566619
	Acenaphthylene	0.001	0.0025					0.000429127	158.52	8.08475E-05	0.00001235	0.00055	6.43E-04	5.10E-07	7.79E-08	3.47E-06	*0.00*	0.125696276	0.019200944	0.85510278
	Anthracene	0.018	0.0025					0.007840042	1189.21	0.001477064	0.0002223	0.00055	2.25E-03	1.24E-06	1.87E-07	4.62E-07	*0.00*	0.656658491	0.098827939	0.24451357
	Benzo(a)anthracene	0.13	0.0025					0.059252849	1.55	0.011163237	0.0016055	0.00055	1.33E-02	7.22E-03	1.04E-03	3.56E-04	*0.01*	0.838160327	0.120544465	0.041295208
	Benzo(a)pyrene	0.16	0.0025					0.073990484	1.55	0.013939807	0.001976	0.00055	1.65E-02	9.02E-03	1.28E-03	3.56E-04	*0.01*	0.846591183	0.120006264	0.033402553
	Benzo(b)fluoranthene	0.29	0.0025					0.137241003	1.55	0.025856205	0.0035815	0.00055	3.00E-02	1.67E-02	2.32E-03	3.56E-04	*0.02*	0.862226869	0.119432281	0.01834085
	Benzo(g,h,i)perylene	0.12	0.0025					0.058275651	158.52	0.010979133	0.001482	0.00055	1.30E-02	6.93E-05	9.35E-06	3.47E-06	*0.00*	0.843826047	0.11390246	0.042271493
	Benzo(k)fluoranthene	0.2	0.0025					0.095654604	1.55	0.018021327	0.00247	0.00055	2.10E-02	1.17E-02	1.60E-03	3.56E-04	*0.01*	0.856472934	0.117388031	0.026139035
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0.23	0.0025					0.104831964	1.55	0.019750342	0.0028405	0.00055	2.31E-02	1.28E-02	1.84E-03	3.56E-04	*0.01*	0.853484155	0.122748343	0.023767502
	Dibenz(a,h)anthracene	0.046	0.0025					0.021263939	1.55	0.004006126	0.0005681	0.00055	5.12E-03	2.59E-03	3.67E-04	3.56E-04	*0.00*	0.781801197	0.110865522	0.107333281
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0.41	0.0025					0.184837353	148.65	0.034823357	0.0050635	0.00055	4.04E-02	2.34E-04	3.41E-05	3.70E-06	*0.00*	0.861178628	0.125219919	0.013601453
	Fluorene	0.014	0.0025					0.006033703	148.65	0.00113675	0.0001729	0.00055	1.86E-03	7.65E-06	1.16E-06	3.70E-06	*0.00*	0.611270859	0.092974503	0.295754638
	Indeno(1,2,3-cd)pyrene	0.14	0.0025					0.069142316	1.55	0.013026412	0.001729	0.00055	1.53E-02	8.43E-03	1.12E-03	3.56E-04	*0.01*	0.851098424	0.112966575	0.035935001
	Naphthalene	0.012	0.0025					0.005010339	166.49	0.000943948	0.0001482	0.00055	1.64E-03	5.67E-06	8.90E-07	3.30E-06	*0.00*	0.574825144	0.090247656	0.334927199
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0.16	0.0025					0.069716547	158.52	0.013134597	0.001976	0.00055	1.57E-02	8.29E-05	1.25E-05	3.47E-06	*0.00*	0.838703471	0.12617654	0.035119988
	Pyrene	0.34	0.0025					0.152382397	158.52	0.028708844	0.004199	0.00055	3.35E-02	1.81E-04	2.65E-05	3.47E-06	*0.00*	0.858060189	0.125501214	0.016438597
	Pesticides and PCBs																			
	4,4'-DDD	0.009	0.00005					0.004163594	18.68	0.000784421	0.00011115	0.000011	9.07E-04	4.20E-05	5.95E-06	5.89E-07	*0.00*	0.86526154	0.122604829	0.012133631
	4,4'-DDE	0.0032	0.00005					0.001463106	2.26	0.000275649	0.00003952	0.000011	3.26E-04	1.22E-04	1.75E-05	4.87E-06	*0.00*	0.845111072	0.121164102	0.033724826
	4,4'-DDT	0.000165	0.00005					7.69325E-05	1.76	1.44941E-05	2.03775E-06	0.000011	2.75E-05	8.24E-06	1.16E-06	6.26E-06	*0.00*	0.526448157	0.074014325	0.399537518
	Aldrin	0.00008	0.000025					3.7756E-05	0.44	7.11323E-06	0.000000988	0.0000055	1.36E-05	1.62E-05	2.25E-06	1.25E-05	*0.00*	0.522984271	0.072640496	0.404375232
	alpha-Chlordane	0.00098	2.17286E-05					0.000459264	5.45	8.65252E-05	0.000012103	4.78029E-06	1.03E-04	1.59E-05	2.22E-06	8.78E-07	*0.00*	0.836732132	0.117040622	0.046227245
	Aroclor 1248	0.035	0.0005					0.016325404	1.55	0.003075706	0.00043225	0.00011	3.62E-03	1.99E-03	2.80E-04	7.12E-05	*0.00*	0.850122558	0.119473535	0.030403907
	Aroclor 1254	0.00165	0.0005					0.000778717	0.08	0.00014671	2.03775E-05	0.00011	2.77E-04	1.81E-03	2.52E-04	1.36E-03	*0.00*	0.529472317	0.073541661	0.396986023
	Aroclor 1260	0.011	0.0005					0.005252772	0.76	0.000989622	0.00013585	0.00011	1.24E-03	1.31E-03	1.79E-04	1.45E-04	*0.00*	0.801007273	0.10995795	0.089034777
	beta-BHC	0.00008	0.000025					3.39825E-05	8.79	6.40231E-06	0.000000988	0.0000055	1.29E-05	7.28E-07	1.12E-07	6.26E-07	*0.00*	0.496676226	0.076646715	0.426677059
	delta-BHC	0.00008	0.000025					3.44244E-05	3.52	6.48555E-06	0.000000988	0.0000055	1.30E-05	1.84E-06	2.81E-07	1.56E-06	*0.00*	0.499905553	0.07615495	0.423939497
	Endosulfan I	0.00044	0.000025					0.000189038	3.30	3.56147E-05	0.000005434	0.0000055	4.65E-05	1.08E-05	1.65E-06	1.67E-06	*0.00*	0.765106292	0.116737919	0.118155789
	Endosulfan Sulfate	0.000165	0.00005					6.96787E-05	3.30	1.31275E-05	2.03775E-06	0.000011	2.62E-05	3.98E-06	6.18E-07	3.34E-06	*0.00*	0.501714313	0.07788013	0.420405558
	Endrin Aldehyde	0.000165	0.00005					7.51761E-05	0.11	1.41632E-05	2.03775E-06	0.000011	2.72E-05	1.29E-04	1.86E-05	1.01E-04	*0.00*	0.520687317	0.074914722	0.404397961
	gamma-Chlordane	0.00059	2.16286E-05					0.000276495	5.45	5.20917E-05	7.2865E-06	4.75829E-06	6.41E-05	9.56E-06	1.34E-06	8.74E-07	*0.00*	0.812200735	0.113609213	0.074190052
	Inorganics																			
X	Aluminum	13754.7619	0.386114286					742.3204837	58.27114864	139.8531791	169.8713095	0.084945143	3.10E+02	2.40E+00	2.92E+00	1.46E-03	*5.32*	0.451416787	0.548309028	0.000274185
X	Antimony	5.9894737	0.000692857					0.475355056	0.148650889	0.089556892	0.07397	0.000152429	1.64E-01	6.02E-01	4.98E-01	1.03E-03	*1.10*	0.547148484	0.451920253	0.000931263
X	Arsenic	136.3833333	0.024585714					1.232163843	0.149840096	0.232139668	0.859010425	0.005408857	1.10E+00	1.55E+00	5.73E+00	3.61E-02	*7.32*	0.211698302	0.783369125	0.004932573
	Barium	78.5904762	0.037342857					4.490884354	11.83503851	0.846082612	0.970592381	0.008215429	1.82E+00	7.15E-02	8.20E-02	6.94E-04	*0.15*	0.463634749	0.531863376	0.004501875
	Beryllium	1.2159524	6.37857E-05					0.096504159	1.450568131	0.018181384	0.015017012	1.40329E-05	3.32E-02	1.25E-02	1.04E-02	9.67E-06	*0.02*	0.547427103	0.452150379	0.000422518
	Cadmium	5.2114286	0.00043					4.883583518	2.120009672	0.920067135	0.064361143	0.0000946	9.85E-01	4.34E-01	3.04E-02	4.46E-05	*0.46*	0.934530985	0.065372928	9.60872E-05
	Chromium	560.9904762	0.025785714					1.241549482	19.78047452	0.233907922	6.928232381	0.005672857	7.17E+00	1.18E-02	3.50E-01	2.87E-04	*0.36*	0.032633094	0.966575471	0.000791435
	Cobalt	15.7238095	0.00146857					1.247921389	10.99	0.23510839	0.194189047	0.000323085	4.30E-01	2.14E-02	1.77E-02	2.94E-05	*0.04*	0.547246645	0.45200133	0.000752025
	Copper	482.752381	0.021542857					4.331177086	33.43	0.815993763	5.961991905	0.004739429	6.78E+00	2.44E-02	1.78E-01	1.42E-04	*0.20*	0.120304708	0.878996542	0.00069875
	Cyanide	0.8715	0.0025					0.069166667	141.9	0.013031	0.010763025	0.00055	2.43E-02	9.18E-05	7.58E-05	3.88E-06	*0.00*	0.535285352	0.442121835	0.022592813
X	Iron	20480	2.401					1235.301587	7.01	232.730819	252.928	0.52822	4.86E+02	3.32E+01	3.61E+01	7.53E-02	*69.35*	0.478685774	0.520227772	0.001086454
	Lead	428.6380952	0.013072856					16.98558389	17.58264402	3.200084005	5.293680476	0.002876028	8.50E+00	1.82E-01	3.01E-01	1.64E-04	*0.48*	0.376629328	0.623032182	0.00033849
	Manganese	702.2809524	0.469714286					6.174980986	193.41	1.163366418	8.673169762	0.103337143	9.94E+00	6.02E-03	4.48E-02	5.34E-04	*0.05*	0.117040367	0.87256341	0.010396223
	Mercury	1.3652381	0.000203929					0.083091504	0.070330576	0.015654439	0.016860691	4.48643E-05	3.26E-02	2.23E-01	2.40E-01	6.38E-04	*0.46*	0.480787535	0.517834569	0.001377896
	Nickel	28.3047619	0.002842857					2.630733022	87.91322008	0.495630101	0.349563809	0.000625429	8.46E-01	5.64E-03	3.98E-03	7.11E-06	*0.01*	0.585976317	0.413284248	0.000739435
	Selenium	3.6542857	0.000857143					0.380733939	0.4395661	0.071730274	0.045130428	0.000188571	1.17E-01	1.63E-01	1.03E-01	4.29E-04	*0.27*	0.612821179	0.385567777	0.001611043
	Silver	0.3811905	0.00025					0.030253214	398.246887	0.005699706	0.004707703	0.000055	1.05E-02	1.43E-05	1.18E-05	1.38E-07	*0.00*	0.544779504	0.44996358	0.005256916
	Thallium	0.3595238	0.000778571					0.028533635	0.164354697	0.005375737	0.004440119	0.000171286	9.99E-03	3.27E-02	2.70E-02	1.04E-03	*0.06*	0.538265813	0.444583563	0.017150624
X	Vanadium	53.9380952	0.001878929					4.280801206	0.428489138	0.806502947	0.666135476	0.000413364	1.47E+00	1.88E+00	1.55E+00	9.65E-04	*3.44*	0.547504816	0.452214567	0.000280618
	Zinc	866.3380952	0.127785714					124.852442	351.6528803	23.52220008	10.69927548	0.028112857	3.42E+01	6.69E-02	3.04E-02	7.99E-05	*0.10*	0.686787818	0.312391359	0.000820823

Table E.1-74. Average Exposure Calculations for Shrew - Station WH

	Mean Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	2.7	0.0025					0.823846224	3736.311853	0.155212629	0.033345	0.00055	1.89E-01	4.15E-05	8.92E-06	1.47E-07	*0.00*	0.820763444	0.176328159	0.002908397
	cis-1,2-Dichloroethene	0	0.000583333					0	6844.044183	0	0	0.000128333	0.00E+00	0.00E+00	0.00E+00	1.88E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	0.00E+00	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0005					0	8.324449805	0	0	0.00011	0.00E+00	0.00E+00	0.00E+00	1.32E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0.3	0.0025					0.107474058	170.89	0.020248112	0.003705	0.00055	2.45E-02	1.18E-04	2.17E-05	3.22E-06	*0.00*	0.826348591	0.151205281	0.022446128
	Acenaphthylene	0.3	0.0025					0.10836116	158.52	0.020415243	0.003705	0.00055	2.47E-02	1.29E-04	2.34E-05	3.47E-06	*0.00*	0.827525004	0.150180931	0.022294065
	Anthracene	0.3	0.0025					0.109985047	1189.21	0.020721183	0.003705	0.00055	2.50E-02	1.74E-05	3.12E-06	4.62E-07	*0.00*	0.829637699	0.148341322	0.022020979
	Benzo(a)anthracene	0.3	0.0025					0.115094255	1.55	0.021683758	0.003705	0.00055	2.59E-02	1.40E-02	2.40E-03	3.56E-04	*0.02*	0.835959761	0.142836448	0.021203791
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	0.00E+00	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0.3	0.0025					0.11950158	1.55	0.022514098	0.003705	0.00055	2.68E-02	1.46E-02	2.40E-03	3.56E-04	*0.02*	0.84104806	0.138405861	0.020546079
	Benzo(g,h,i)perylene	0.3	0.0025					0.12262913	158.52	0.023103328	0.003705	0.00055	2.74E-02	1.46E-04	2.34E-05	3.47E-06	*0.00*	0.84447149	0.135424942	0.020103568
	Benzo(k)fluoranthene	0.66	0.0025					0.265696802	1.55	0.050057277	0.008151	0.00055	5.88E-02	3.24E-02	5.27E-03	3.56E-04	*0.04*	0.851918736	0.138720881	0.009360383
	Carbazole	0.3	0					na	158.52	No BCF	0.003705	0	3.71E-03	No BCF	2.34E-05	0.00E+00	*0.00*	0	1	0
	Chrysene	0.3	0.0025					0.115094255	1.55	0.021683758	0.003705	0.00055	2.59E-02	1.40E-02	2.40E-03	3.56E-04	*0.02*	0.835959761	0.142836448	0.021203791
	Dibenz(a,h)anthracene	0.3	0.0025					0.116727624	1.55	0.021991484	0.003705	0.00055	2.62E-02	1.42E-02	2.40E-03	3.56E-04	*0.02*	0.83788305	0.141161763	0.020955187
	Dibenzofuran	0.3	0.0025					0.108573452	158.52	0.020455238	0.003705	0.00055	2.47E-02	1.29E-04	2.34E-05	3.47E-06	*0.00*	0.82780417	0.14993785	0.02225798
	Fluoranthene	0.3	0.0025					0.113839675	148.65	0.021447395	0.003705	0.00055	2.57E-02	1.44E-04	2.49E-05	3.70E-06	*0.00*	0.834451223	0.144149992	0.021398784
	Fluorene	0.3	0.0025					0.108828751	148.65	0.020503337	0.003705	0.00055	2.48E-02	1.38E-04	2.49E-05	3.70E-06	*0.00*	0.828138697	0.149646563	0.022214739
	Indeno(1,2,3-cd)pyrene	0.3	0.0025					0.12471068	1.55	0.023495492	0.003705	0.00055	2.78E-02	1.52E-02	2.40E-03	3.56E-04	*0.02*	0.846669385	0.133511146	0.019819468
	Naphthalene	0.3	0.0025					0.105432292	166.49	0.019863444	0.003705	0.00055	2.41E-02	1.19E-04	2.23E-05	3.30E-06	*0.00*	0.823578998	0.153616877	0.022804125
	N-nitrosodiphenylamine	0.3	0.0025					0.103065579	329.67	0.019417555	0.003705	0.00055	2.37E-02	5.89E-05	1.12E-05	1.67E-06	*0.00*	0.820255989	0.156510355	0.023233656
	Phenanthrene	0.3	0.0025					0.110028108	158.52	0.020729296	0.003705	0.00055	2.50E-02	1.31E-04	2.34E-05	3.47E-06	*0.00*	0.829693017	0.148293154	0.022013829
	Pyrene	0.3	0.0025					0.113173213	158.52	0.021321833	0.003705	0.00055	2.56E-02	1.35E-04	2.34E-05	3.47E-06	*0.00*	0.833638514	0.144857651	0.021503835
	Pesticides and PCBs																			
	4,4'-DDD	0.00245	0.00005					0.000954022	18.68	0.000179738	3.02575E-05	0.000011	2.21E-04	9.62E-06	1.62E-06	5.89E-07	*0.00*	0.813310493	0.136914689	0.049774819
	4,4'-DDE	0.00245	0.00005					0.000942884	2.26	0.000177639	3.02575E-05	0.000011	2.19E-04	7.86E-05	1.34E-05	4.87E-06	*0.00*	0.811520884	0.138227155	0.050251961
	4,4'-DDT	0.00245	0.00005					0.00096152	1.76	0.00018115	3.02575E-05	0.000011	2.22E-04	1.03E-04	1.72E-05	6.26E-06	*0.00*	0.814496274	0.136045058	0.049458668
	Aldrin	0.00125	0.000025					0.000496561	0.44	9.3552E-05	1.54375E-05	0.0000055	1.14E-04	2.13E-04	3.51E-05	1.25E-05	*0.00*	0.817123045	0.134837635	0.048039319
	alpha-Chlordane	0.00125	2.17286E-05					0.000493074	5.45	9.28952E-05	1.54375E-05	4.78029E-06	1.13E-04	1.71E-05	2.83E-06	8.78E-07	*0.00*	0.821260224	0.136478568	0.042261209
	Aroclor 1248	0.0245	0.0005					0.009618968	1.55	0.001812214	0.000302575	0.00011	2.22E-03	1.17E-03	1.96E-04	7.12E-05	*0.00*	0.81455541	0.136001689	0.049442901
	Aroclor 1254	0.0245	0.0005					0.009732591	0.08	0.00183362	0.000302575	0.00011	2.25E-03	2.27E-02	3.74E-03	1.36E-03	*0.03*	0.816322727	0.134705571	0.048971702
	Aroclor 1260	0.0245	0.0005					0.009847556	0.76	0.00185528	0.000302575	0.00011	2.27E-03	2.45E-03	3.99E-04	1.45E-04	*0.00*	0.818076963	0.133419046	0.048503991
	beta-BHC	0.00125	0.000025					0.000446933	8.79	8.42022E-05	1.54375E-05	0.0000055	1.05E-04	9.58E-06	1.76E-06	6.26E-07	*0.00*	0.800860139	0.146828495	0.052311366
	delta-BHC	0.00125	0.000025					0.000452744	3.52	8.52969E-05	1.54375E-05	0.0000055	1.06E-04	2.43E-05	4.39E-06	1.56E-06	*0.00*	0.802912259	0.145315439	0.051772302
	Endosulfan I	0.00125	0.000025					0.000452035	3.30	8.51635E-05	1.54375E-05	0.0000055	1.06E-04	2.58E-05	4.68E-06	1.67E-06	*0.00*	0.80266437	0.145498211	0.051837419
	Endosulfan Sulfate	0.00245	0.00005					0.00087086	3.30	0.00016407	3.02575E-05	0.000011	2.05E-04	4.98E-05	9.18E-06	3.34E-06	*0.00*	0.799064981	0.147362088	0.053572931
	Endrin Aldehyde	0.00245	0.00005					0.000939569	0.11	0.000177015	3.02575E-05	0.000011	2.18E-04	1.62E-03	2.77E-04	1.01E-04	*0.00*	0.81098144	0.138622773	0.050395786
	gamma-Chlordane	0.00125	2.16286E-05					0.000493074	5.45	9.28952E-05	1.54375E-05	4.75829E-06	1.13E-04	1.71E-05	2.83E-06	8.74E-07	*0.00*	0.821419986	0.136505118	0.042074896
	Inorganics																			
X	Aluminum	10695	0.386114286					577.1904762	58.27114864	108.7426857	132.08325	0.084945143	2.41E+02	1.87E+00	2.27E+00	1.46E-03	*4.13*	0.451381379	0.548266021	0.0003526
X	Antimony	21.6954545	0.000692857					1.721861468	0.148650889	0.324398701	0.267938863	0.000152429	5.92E-01	2.18E+00	1.80E+00	1.03E-03	*3.99*	0.547517603	0.452225129	0.000257268
X	Arsenic	114.1090909	0.024585714					1.086413307	0.149840096	0.204680267	0.718716109	0.005408857	9.29E-01	1.37E+00	4.80E+00	3.61E-02	*6.20*	0.220369416	0.773807127	0.005823457
	Barium	81.4545455	0.037342857					4.654545457	11.83503851	0.876916364	1.005963637	0.008215429	1.89E+00	7.41E-02	8.50E-02	6.94E-04	*0.16*	0.463708151	0.53194758	0.00434427
	Beryllium	0.9245455	6.37857E-05					0.073376627	1.450568131	0.013824157	0.011418137	1.40329E-05	2.53E-02	9.53E-03	7.87E-03	9.67E-06	*0.02*	0.54735421	0.452090173	0.000555617
	Cadmium	5.8790909	0.00043					5.374765966	2.120009672	1.012605908	0.072606773	0.0000946	1.09E+00	4.78E-01	3.42E-02	4.46E-05	*0.51*	0.933013098	0.066899738	8.71643E-05
	Chromium	346.4636364	0.025785714					1.282292161	19.78047452	0.241583843	4.27882591	0.005672857	4.53E+00	1.22E-02	2.16E-01	2.87E-04	*0.23*	0.053375924	0.945370705	0.00125337
	Cobalt	12.1954545	0.00146857					0.967893214	10.99	0.182351082	0.150613863	0.000323085	3.33E-01	1.66E-02	1.37E-02	2.94E-05	*0.03*	0.547127605	0.451903007	0.000969388
	Copper	247.8727273	0.021542857					3.632278016	33.43	0.684321178	3.061228182	0.004739429	3.75E+00	2.05E-02	9.16E-02	1.42E-04	*0.11*	0.182471595	0.816264654	0.00126375
	Cyanide	0.569	0.0025					0.04515873	141.9	0.008507905	0.00702715	0.00055	1.61E-02	6.00E-05	4.95E-05	3.88E-06	*0.00*	0.528932285	0.436874484	0.034193231
X	Iron	24718.18182	2.401					1490.937951	7.01	280.89271	305.2695455	0.52822	5.87E+02	4.01E+01	4.35E+01	7.53E-02	*83.68*	0.478774962	0.5203247	0.000900338
X	Lead	1515.727273	0.013072856					47.07002479	17.58264402	8.867992671	18.71923182	0.002876028	2.76E+01	5.04E-01	1.06E+00	1.64E-04	*1.57*	0.321419368	0.678476391	0.000104241
	Manganese	250.3	0.469714286					3.055381894	193.41	0.575633949	3.091205	0.103337143	3.77E+00	2.98E-03	1.60E-02	5.34E-04	*0.02*	0.152680919	0.819909979	0.027409102
	Mercury	0.5385	0.000203929					0.074452955	0.070330576	0.014026937	0.006650475	4.48643E-05	2.07E-02	1.99E-01	9.46E-02	6.38E-04	*0.29*	0.676901357	0.320933616	0.002165027
	Nickel	23.8181818	0.002842857					2.751465109	87.91322008	0.518376027	0.294154545	0.000625429	8.13E-01	5.90E-03	3.35E-03	7.11E-06	*0.01*	0.637486566	0.361744296	0.000769137
	Selenium	2.7272727	0.000857143					0.30723904	0.4395661	0.057883835	0.033681818	0.000188571	9.18E-02	1.32E-01	7.66E-02	4.29E-04	*0.21*	0.63085744	0.36708738	0.00205518
	Silver	0.2645455	0.00025					0.020995675	398.246887	0.003955585	0.003267137	0.000055	7.28E-03	9.93E-06	8.20E-06	1.38E-07	*0.00*	0.543519673	0.448923017	0.00755731
	Thallium	0.5615909	0.000778571					0.044570706	0.164354697	0.008397121	0.006935648	0.000171286	1.55E-02	5.11E-02	4.22E-02	1.04E-03	*0.09*	0.541608076	0.447344123	0.011047801
X	Vanadium	75.5954545	0.001878929					5.999639246	0.428489138	1.130332034	0.933603863	0.000413364	2.06E+00	2.64E+00	2.18E+00	9.65E-04	*4.82*	0.547548835	0.452250925	0.00020024
	Zinc	977.6818182	0.127785714					129.9033535	351.6528803	24.4737918	12.07437045	0.028112857	3.66E+01	6.96E-02	3.43E-02	7.99E-05	*0.10*	0.669116571	0.330114819	0.000768609

Table E.1-75. Average Exposure Calculations for Shrew - Station WS

	Mean Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0.0025					0	26.59374907	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	2.07E-05	*0.00*	0	0	1
	Acetone	0	0.0025					0	3736.311853	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.47E-07	*0.00*	0	0	1
	cis-1,2-Dichloroethene	0	0.000583333					0	6844.044183	0	0	0.000128333	1.28E-04	0.00E+00	0.00E+00	1.88E-08	*0.00*	0	0	1
	Tetrachloroethene	0	0.0005					0	17	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	6.61E-06	*0.00*	0	0	1
	Trichloroethene	0	0.0005					0	8.324449805	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.32E-05	*0.00*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0.0025					0	170.89	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.22E-06	*0.00*	0	0	1
	Acenaphthylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Anthracene	0	0.0025					0	1189.21	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	4.62E-07	*0.00*	0	0	1
	Benzo(a)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(a)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(b)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Benzo(g,h,i)perylene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Benzo(k)fluoranthene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00*	0	0	0
	Chrysene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenz(a,h)anthracene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Dibenzofuran	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Fluoranthene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Fluorene	0	0.0025					0	148.65	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.70E-06	*0.00*	0	0	1
	Indeno(1,2,3-cd)pyrene	0	0.0025					0	1.55	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.56E-04	*0.00*	0	0	1
	Naphthalene	0	0.0025					0	166.49	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.30E-06	*0.00*	0	0	1
	N-nitrosodiphenylamine	0	0.0025					0	329.67	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Phenanthrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pyrene	0	0.0025					0	158.52	0	0	0.00055	5.50E-04	0.00E+00	0.00E+00	3.47E-06	*0.00*	0	0	1
	Pesticides and PCBs																			
	4,4'-DDD	0	0.00005					0	18.68	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	5.89E-07	*0.00*	0	0	1
	4,4'-DDE	0	0.00005					0	2.26	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	4.87E-06	*0.00*	0	0	1
	4,4'-DDT	0	0.00005					0	1.76	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	6.26E-06	*0.00*	0	0	1
	Aldrin	0	0.000025					0	0.44	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.25E-05	*0.00*	0	0	1
	alpha-Chlordane	0	2.17286E-05					0	5.45	0	0	4.78029E-06	4.78E-06	0.00E+00	0.00E+00	8.78E-07	*0.00*	0	0	1
	Aroclor 1248	0	0.0005					0	1.55	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	7.12E-05	*0.00*	0	0	1
	Aroclor 1254	0	0.0005					0	0.08	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.36E-03	*0.00*	0	0	1
	Aroclor 1260	0	0.0005					0	0.76	0	0	0.00011	1.10E-04	0.00E+00	0.00E+00	1.45E-04	*0.00*	0	0	1
	beta-BHC	0	0.000025					0	8.79	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	6.26E-07	*0.00*	0	0	1
	delta-BHC	0	0.000025					0	3.52	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.56E-06	*0.00*	0	0	1
	Endosulfan I	0	0.000025					0	3.30	0	0	0.0000055	5.50E-06	0.00E+00	0.00E+00	1.67E-06	*0.00*	0	0	1
	Endosulfan Sulfate	0	0.00005					0	3.30	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	3.34E-06	*0.00*	0	0	1
	Endrin Aldehyde	0	0.00005					0	0.11	0	0	0.000011	1.10E-05	0.00E+00	0.00E+00	1.01E-04	*0.00*	0	0	1
	gamma-Chlordane	0	2.16286E-05					0	5.45	0	0	4.75829E-06	4.76E-06	0.00E+00	0.00E+00	8.74E-07	*0.00*	0	0	1
	Inorganics																			
X	Aluminum	8500	0.386114286					458.7301587	58.27114864	86.4247619	104.975	0.084945143	1.91E+02	1.48E+00	1.80E+00	1.46E-03	*3.29*	0.451340283	0.548216104	0.000443613
	Antimony	3.95	0.000692857					0.313492063	0.148650889	0.059061905	0.0487825	0.000152429	1.08E-01	3.97E-01	3.28E-01	1.03E-03	*0.73*	0.546885524	0.451703059	0.001411417
X	Arsenic	167.91	0.024585714					1.427023202	0.149840096	0.268851171	1.057581135	0.005408857	1.33E+00	1.79E+00	7.06E+00	3.61E-02	*8.89*	0.20186429	0.794074522	0.004061188
	Barium	119.285	0.037342857					6.816285714	11.83503851	1.284188229	1.47316975	0.008215429	2.77E+00	1.09E-01	1.24E-01	6.94E-04	*0.23*	0.464347909	0.532681485	0.002970606
	Beryllium	0.5275	6.37857E-05					0.041865079	1.450568131	0.007887381	0.006514625	1.40329E-05	1.44E-02	5.44E-03	4.49E-03	9.67E-06	*0.01*	0.547125397	0.451901184	0.00097342
	Cadmium	8.095	0.00043					6.930911706	2.120009672	1.305783765	0.09997325	0.0000946	1.41E+00	6.16E-01	4.72E-02	4.46E-05	*0.66*	0.928820475	0.071112235	6.72902E-05
	Chromium	504	0.025785714					1.250492827	19.78047452	0.235592849	6.2244	0.005672857	6.47E+00	1.19E-02	3.15E-01	2.87E-04	*0.33*	0.036437524	0.962685094	0.000877382
	Cobalt	18.99	0.00146857					1.507142857	10.99	0.283945714	0.2345265	0.000323085	5.19E-01	2.58E-02	2.13E-02	2.94E-05	*0.05*	0.547317438	0.452059801	0.000622761
	Copper	306.26	0.021542857					3.840878124	33.43	0.723621439	3.782311	0.004739429	4.51E+00	2.16E-02	1.13E-01	1.42E-04	*0.13*	0.160424314	0.838524972	0.001050715
	Cyanide	3.61	0.0025					0.286507937	141.9	0.053978095	0.0445835	0.00055	9.91E-02	3.80E-04	3.14E-04	3.88E-06	*0.00*	0.544619377	0.449831323	0.0055493
X	Iron	29765	2.401					1795.349206	7.01	338.2437905	367.59775	0.52822	7.06E+02	4.82E+01	5.24E+01	7.53E-02	*100.75*	0.478848061	0.520404143	0.000747795
	Lead	294.8	0.013072856					12.55717392	17.58264402	2.365771566	3.64078	0.002876028	6.01E+00	1.35E-01	2.07E-01	1.64E-04	*0.34*	0.39367669	0.605844724	0.000478586
	Manganese	1036	0.469714286					8.049901198	193.41	1.516601386	12.7946	0.103337143	1.44E+01	7.84E-03	6.62E-02	5.34E-04	*0.07*	0.105213315	0.887617732	0.007168953
	Mercury	0.98	0.000203929					0.079903666	0.070330576	0.015053851	0.012103	4.48643E-05	2.72E-02	2.14E-01	1.72E-01	6.38E-04	*0.39*	0.553415499	0.444935182	0.001649319
	Nickel	30.135	0.002842857					2.588223266	87.91322008	0.487621263	0.37216725	0.000625429	8.60E-01	5.55E-03	4.23E-03	7.11E-06	*0.01*	0.566728687	0.432544421	0.000726893
	Selenium	2.069	0.000857143					0.250922613	0.4395661	0.04727382	0.02555215	0.000188571	7.30E-02	1.08E-01	5.81E-02	4.29E-04	*0.17*	0.647457605	0.349959739	0.002582656
	Silver	0.213	0.00025					0.016904762	398.246887	0.003184857	0.00263055	0.000055	5.87E-03	8.00E-06	6.61E-06	1.38E-07	*0.00*	0.542527471	0.448103502	0.009369026
	Thallium	0.7575	0.000778571					0.060119048	0.164354697	0.011326429	0.009355125	0.000171286	2.09E-02	6.89E-02	5.69E-02	1.04E-03	*0.13*	0.543160019	0.448625958	0.008214023
X	Vanadium	37.365	0.001878929					2.96547619	0.428489138	0.558695714	0.46145775	0.000413364	1.02E+00	1.30E+00	1.08E+00	9.65E-04	*2.38*	0.547436678	0.452158288	0.000405034
	Zinc	1541.5	0.127785714					150.8276786	351.6528803	28.41593465	19.037525	0.028112857	4.75E+01	8.08E-02	5.41E-02	7.99E-05	*0.14*	0.598462375	0.400945546	0.000592079

	Maximum Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0.1075	0					0.097091709	26.5937491	0.018292078	0.00132763	0	1.96E-02	6.88E-04	4.99E-05	0.00E+00	*7.38E-04*	0.93233205	0.06766795	0
	Acetone	0.59	0					0.522138469	3736.31185	0.098370888	0.0072865	0	1.06E-01	2.63E-05	1.95E-06	0.00E+00	*2.83E-05*	0.93103653	0.06896347	0
	cis-1,2-Dichloroethene	0	0.00075125					0	6844.04418	0	0	0.00016528	0.00E+00	0.00E+00	0.00E+00	2.41E-08	*2.41E-08*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0					0	8.32444981	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	1.1	0					1.22398576	1.55	0.230598917	0.013585	0	2.44E-01	1.49E-01	8.79E-03	0.00E+00	*1.58E-01*	0.94436571	0.05563429	0
	Benzo(a)pyrene	1.2	0					1.354736794	1.55	0.255232412	0.01482	0	2.70E-01	1.65E-01	9.59E-03	0.00E+00	*1.75E-01*	0.94512176	0.05487824	0
	Benzo(b)fluoranthene	3.7	0					4.274697667	1.55	0.80535304	0.045695	0	8.51E-01	5.21E-01	2.96E-02	0.00E+00	*5.50E-01*	0.94630738	0.05369262	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	1.5	0					1.669071491	1.55	0.314453069	0.018525	0	3.33E-01	2.03E-01	1.20E-02	0.00E+00	*2.15E-01*	0.94436571	0.05563429	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	3	0					3.301755689	148.65	0.622050772	0.03705	0	6.59E-01	4.18E-03	2.49E-04	0.00E+00	*4.43E-03*	0.94378705	0.05621295	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0.83	0					1.00071814	1.55	0.188535298	0.0102505	0	1.99E-01	1.22E-01	6.63E-03	0.00E+00	*1.29E-01*	0.94843444	0.05156556	0
	Naphthalene	0	0.0031184					0	166.49	0	0	0.00068605	0.00E+00	0.00E+00	0.00E+00	4.12E-06	*4.12E-06*	0	0	1
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0.89	0					0.946724654	158.52	0.178362925	0.0109915	0	1.89E-01	1.13E-03	6.93E-05	0.00E+00	*1.19E-03*	0.94195277	0.05804723	0
	Pyrene	2.5	0					2.735354942	158.52	0.515340871	0.030875	0	5.46E-01	3.25E-03	1.95E-04	0.00E+00	*3.45E-03*	0.94347473	0.05652527	0
	Pesticides and PCBs																			
	4,4'-DDD	0.032	0					0.036140459	18.68	0.006808862	0.0003952	0	7.20E-03	3.64E-04	2.12E-05	0.00E+00	*3.86E-04*	0.94514206	0.05485794	0
	4,4'-DDE	0.032	0					0.035718537	2.26	0.006729372	0.0003952	0	7.12E-03	2.98E-03	1.75E-04	0.00E+00	*3.15E-03*	0.94453	0.05547	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0.049	0.0000021					0.05605957	5.45	0.010561623	0.00060515	4.62E-07	1.12E-02	1.94E-03	1.11E-04	8.48E-08	*2.05E-03*	0.94576885	0.05418978	4.1371E-05
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0.042	0					0.04405173	3.30	0.008299346	0.0005187	0	8.82E-03	2.52E-03	1.57E-04	0.00E+00	*2.67E-03*	0.94117744	0.05882256	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0.0119	0.0000014					0.013614467	5.45	0.002564966	0.00014697	3.08E-07	2.71E-03	4.71E-04	2.70E-05	5.65E-08	*4.98E-04*	0.94570057	0.05418587	0.00011356
	Inorganics																			
X	Aluminum	29700	2.18					1602.857143	58.2711486	301.9782857	366.795	0.4796	6.69E+02	5.18E+00	6.29E+00	8.23E-03	*1.15E+01*	0.45121701	0.54806637	0.00071662
	Antimony	5.4	0.00095462					0.428571429	0.14865089	0.080742857	0.06669	0.00021002	1.48E-01	5.43E-01	4.49E-01	1.41E-03	*9.93E-01*	0.54687948	0.45169806	0.00142246
X	Arsenic	321	0.04632573					2.254859741	0.1498401	0.424815575	2.0218185	0.01019166	2.46E+00	2.84E+00	1.35E+01	6.80E-02	*1.64E+01*	0.17291238	0.82293932	0.0041483
	`	151	0.04346373					8.628571429	11.8350385	1.625622857	1.86485	0.00956202	3.50E+00	1.37E-01	1.58E-01	8.08E-04	*2.96E-01*	0.46445905	0.53280898	0.00273198
	Beryllium	2	0.00015051					0.158730159	1.45056813	0.029904762	0.0247	3.3113E-05	5.46E-02	2.06E-02	1.70E-02	2.28E-05	*3.77E-02*	0.5473266	0.45206737	0.00060604
X	Cadmium	18.5	0.0025					13.37086455	2.12000967	2.519070881	0.228475	0.00055	2.75E+00	1.19E+00	1.08E-01	2.59E-04	*1.30E+00*	0.91666048	0.08313938	0.00020014
X	Chromium	1860	0.05886398					1.145741605	19.7804745	0.215857718	22.971	0.01295008	2.32E+01	1.09E-02	1.16E+00	6.55E-04	*1.17E+00*	0.00930429	0.99013751	0.0005582
	Cobalt	46.3	0.0039065					3.674603175	10.99	0.692295238	0.571805	0.00085943	1.26E+00	6.30E-02	5.20E-02	7.82E-05	*1.15E-01*	0.54728641	0.45203417	0.00067941
	Copper	1075	0.07123821					5.350501945	33.43	1.008034567	13.27625	0.01567241	1.43E+01	3.02E-02	3.97E-01	4.69E-04	*4.28E-01*	0.07049214	0.92841188	0.00109598
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	43800	6.8492234					2641.904762	7.01	497.7348571	540.93	1.50682915	1.04E+03	7.10E+01	7.72E+01	2.15E-01	*1.48E+02*	0.47851221	0.52003915	0.00144864
X	Lead	1200	0.0759					38.98364953	17.582644	7.344519572	14.82	0.016698	2.22E+01	4.18E-01	8.43E-01	9.50E-04	*1.26E+00*	0.33111436	0.66813284	0.0007528
	Manganese	901.5	0.57916724					7.321529656	193.41	1.379376187	11.133525	0.12741679	1.26E+01	7.13E-03	5.76E-02	6.59E-04	*6.54E-02*	0.10912512	0.88079469	0.01008019
	Mercury	3.3	0.00060956					0.092211837	0.07033058	0.01737271	0.040755	0.0001341	5.83E-02	2.47E-01	5.79E-01	1.91E-03	*8.28E-01*	0.29818348	0.69951479	0.00230173
	Nickel	57.7	0.00393951					2.186022044	87.9132201	0.411846553	0.712595	0.00086669	1.13E+00	4.68E-03	8.11E-03	9.86E-06	*1.28E-02*	0.36598555	0.63324427	0.00077018
	Selenium	11.1	0.0009109					0.859625124	0.4395661	0.161953373	0.137085	0.0002004	2.99E-01	3.68E-01	3.12E-01	4.56E-04	*6.81E-01*	0.54121788	0.45811243	0.00066969
	Silver	1.6	0.00031272					0.126984127	398.246887	0.02392381	0.01976	6.8797E-05	4.38E-02	6.01E-05	4.96E-05	1.73E-07	*1.10E-04*	0.54679735	0.45163023	0.00157242
	Thallium	4.4	0.00081441					0.349206349	0.1643547	0.065790476	0.05434	0.00017917	1.20E-01	4.00E-01	3.31E-01	1.09E-03	*7.32E-01*	0.5468429	0.45166786	0.00148924
X	Vanadium	115	0.00609555					9.126984127	0.42848914	1.71952381	1.42025	0.00134102	3.14E+00	4.01E+00	3.31E+00	3.13E-03	*7.33E+00*	0.54742469	0.45214839	0.00042692
	Zinc	3470	0.626					196.8174659	351.65288	37.08041058	42.8545	0.13772	8.01E+01	1.05E-01	1.22E-01	3.92E-04	*2.28E-01*	0.46308471	0.53519536	0.00171994

Table E.1-77. Maximun Exposure Calculations for Shrew - Station 21

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)	C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics															
	2-Butanone	0	0	0	26.5937491	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0	0	3736.31185	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.00075125	0	6844.04418	0	0	0.00016528	1.65E-04	0.00E+00	0.00E+00	2.41E-08	*2.41E-08*	0	0	1
	Tetrachloroethene	0	0	0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0.019	0	0.016119357	8.32444981	0.003036887	0.00023465	0	3.27E-03	3.65E-04	2.82E-05	0.00E+00	*3.93E-04*	0.9282753	0.0717247	0
	Semivolatile Organics															
	2-Methylnaphthalene	0.14	0	0.12424306	170.89	0.023407392	0.001729	0	2.51E-02	1.37E-04	1.01E-05	0.00E+00	*1.47E-04*	0.93121527	0.06878473	0
	Acenaphthylene	0.038	0	0.03400147	158.52	0.006405877	0.0004693	0	6.88E-03	4.04E-05	2.96E-06	0.00E+00	*4.34E-05*	0.93173994	0.06826006	0
	Anthracene	0.42	0	0.381437505	1189.21	0.071862826	0.005187	0	7.70E-02	6.04E-05	4.36E-06	0.00E+00	*6.48E-05*	0.93267993	0.06732007	0
	Benzo(a)anthracene	0.39	0	0.370645481	1.55	0.069829609	0.0048165	0	7.46E-02	4.52E-02	3.12E-03	0.00E+00	*4.83E-02*	0.93547554	0.06452446	0
	Benzo(a)pyrene	0.89	0	0.858171542	1.55	0.161679519	0.0109915	0	1.73E-01	1.05E-01	7.11E-03	0.00E+00	*1.12E-01*	0.93634427	0.06365573	0
	Benzo(b)fluoranthene	3.1	0	3.058974072	1.55	0.576310715	0.038285	0	6.15E-01	3.73E-01	2.48E-02	0.00E+00	*3.98E-01*	0.93770702	0.06229298	0
	Benzo(g,h,i)perylene	0.71	0	0.718939675	158.52	0.135448235	0.0087685	0	1.44E-01	8.54E-04	5.53E-05	0.00E+00	*9.10E-04*	0.93919915	0.06080085	0
	Benzo(k)fluoranthene	0	0	0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0	na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0.94	0	0.893350646	1.55	0.168307262	0.011609	0	1.80E-01	1.09E-01	7.51E-03	0.00E+00	*1.16E-01*	0.93547554	0.06452446	0
	Dibenz(a,h)anthracene	0.24	0	0.231326477	1.55	0.043581908	0.002964	0	4.65E-02	2.82E-02	1.92E-03	0.00E+00	*3.01E-02*	0.93632093	0.06367907	0
	Dibenzofuran	0	0	0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	2.5	0	2.350033811	148.65	0.44274637	0.030875	0	4.74E-01	2.98E-03	2.08E-04	0.00E+00	*3.19E-03*	0.9348108	0.0651892	0
	Fluorene	0.24	0	0.215672784	148.65	0.040632752	0.002964	0	4.36E-02	2.73E-04	1.99E-05	0.00E+00	*2.93E-04*	0.93201328	0.06798672	0
	Indeno(1,2,3-cd)pyrene	0.62	0	0.638463084	1.55	0.120286445	0.007657	0	1.28E-01	7.78E-02	4.95E-03	0.00E+00	*8.28E-02*	0.94015325	0.05984675	0
	Naphthalene	2.5	0.0031184	2.176477143	166.49	0.410048294	0.030875	0.00068605	4.42E-01	2.46E-03	1.85E-04	4.12E-06	*2.65E-03*	0.92853175	0.06991473	0.00155352
	N-nitrosodiphenylamine	0	0	0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0.6	0	0.545124062	158.52	0.102701373	0.00741	0	1.10E-01	6.48E-04	4.67E-05	0.00E+00	*6.95E-04*	0.9327045	0.0672955	0
	Pyrene	2.4	0	2.24282477	158.52	0.422548187	0.02964	0	4.52E-01	2.67E-03	1.87E-04	0.00E+00	*2.85E-03*	0.93445207	0.06554793	0
	Pesticides and PCBs															
	4,4'-DDD	0.035	0	0.033761532	18.68	0.006360673	0.00043225	0	6.79E-03	3.40E-04	2.31E-05	0.00E+00	*3.64E-04*	0.9363676	0.0636324	0
	4,4'-DDE	0.036	0	0.034320737	2.26	0.006466027	0.0004446	0	6.91E-03	2.86E-03	1.97E-04	0.00E+00	*3.06E-03*	0.9356643	0.0643357	0
	4,4'-DDT	0.0044	0	0.004277665	1.76	0.000805912	0.00005434	0	8.60E-04	4.58E-04	3.09E-05	0.00E+00	*4.89E-04*	0.93683247	0.06316753	0
	Aldrin	0	0	0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0.062	0.0000021	0.0605837	5.45	0.011413969	0.0007657	4.62E-07	1.22E-02	2.10E-03	1.41E-04	8.48E-08	*2.24E-03*	0.93709739	0.06286468	3.7931E-05
	Aroclor 1248	0.24	0	0.233418538	1.55	0.043976052	0.002964	0	4.69E-02	2.84E-02	1.92E-03	0.00E+00	*3.04E-02*	0.93685563	0.06314437	0
	Aroclor 1254	0	0	0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0.42	0	0.418189758	0.76	0.07878695	0.005187	0	8.40E-02	1.04E-01	6.84E-03	0.00E+00	*1.11E-01*	0.93823084	0.06176916	0
	beta-BHC	0	0	0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0.0018	0	0.001615015	3.52	0.000304269	0.00002223	0	3.26E-04	8.65E-05	6.32E-06	0.00E+00	*9.28E-05*	0.931914	0.068086	0
	Endosulfan I	0.068	0	0.06091623	3.30	0.011476618	0.0008398	0	1.23E-02	3.48E-03	2.55E-04	0.00E+00	*3.74E-03*	0.93181459	0.06818541	0
	Endosulfan Sulfate	0	0	0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0.009	0	0.00855001	0.11	0.001610822	0.00011115	0	1.72E-03	1.47E-02	1.02E-03	0.00E+00	*1.57E-02*	0.93545191	0.06454809	0
	gamma-Chlordane	0.047	0.0000014	0.045926353	5.45	0.008652525	0.00058045	3.08E-07	9.23E-03	1.59E-03	1.07E-04	5.65E-08	*1.70E-03*	0.93710168	0.06286496	3.3358E-05
	Inorganics															
X	Aluminum	18400	2.18	993.015873	58.2711486	187.0841905	227.24	0.4796	4.15E+02	3.21E+00	3.90E+00	8.23E-03	*7.12E+00*	0.45101852	0.54782527	0.00115621
	Antimony	2	0.00095462	0.158730159	0.14865089	0.029904762	0.0247	0.00021002	5.48E-02	2.01E-01	1.66E-01	1.41E-03	*3.69E-01*	0.54556021	0.45060841	0.00383138
X	Arsenic	248.257224	0.04632573	1.880735484	0.1498401	0.354330565	1.56364813	0.01019166	1.93E+00	2.36E+00	1.04E+01	6.80E-02	*1.29E+01*	0.18376518	0.81094916	0.00528566
	Barium	181	0.04346373	10.34285714	11.8350385	1.948594286	2.23535	0.00956202	4.19E+00	1.65E-01	1.89E-01	8.08E-04	*3.54E-01*	0.46466945	0.53305035	0.0022802
	Beryllium	1.1	0.00015051	0.087301587	1.45056813	0.016447619	0.013585	3.3113E-05	3.01E-02	1.13E-02	9.37E-03	2.28E-05	*2.07E-02*	0.54705534	0.45184332	0.00110134
X	Cadmium	20.5	0.0025	14.5078242	2.12000967	2.733274079	0.253175	0.00055	2.99E+00	1.29E+00	1.19E-01	2.59E-04	*1.41E+00*	0.91505689	0.08475898	0.00018413
X	Chromium	5033.90724	0.05886398	1.071806539	19.7804745	0.201928352	62.1687544	0.01295008	6.24E+01	1.02E-02	3.14E+00	6.55E-04	*3.15E+00*	0.00323688	0.99655553	0.00020759
	Cobalt	29.9	0.0039065	2.373015873	10.99	0.44707619	0.369265	0.00085943	8.17E-01	4.07E-02	3.36E-02	7.82E-05	*7.44E-02*	0.54708254	0.45186578	0.00105168
	Copper	600.808918	0.07123821	4.588693965	33.43	0.864509943	7.41999013	0.01567241	8.30E+00	2.59E-02	2.22E-01	4.69E-04	*2.48E-01*	0.10415566	0.89395614	0.0018882
	Cyanide	0	0	0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	28000	6.8492234	1688.888889	7.01	318.1866667	345.8	1.50682915	6.65E+02	4.54E+01	4.93E+01	2.15E-01	*9.49E+01*	0.47812138	0.51961439	0.00226423
	Lead	722	0.0759	25.87156788	17.582644	4.874203388	8.9167	0.016698	1.38E+01	2.77E-01	5.07E-01	9.50E-04	*7.85E-01*	0.3530087	0.64578197	0.00120933
	Manganese	268	0.57916724	3.201128666	193.41	0.603092641	3.3098	0.12741679	4.04E+00	3.12E-03	1.71E-02	6.59E-04	*2.09E-02*	0.14926892	0.81919468	0.03153639
X	Mercury	18.2	0.00060956	0.112795156	0.07033058	0.021250607	0.22477	0.0001341	2.46E-01	3.02E-01	3.20E+00	1.91E-03	*3.50E+00*	0.08633029	0.91312492	0.00054479
	Nickel	46.8	0.00393951	2.308321659	87.9132201	0.434887801	0.57798	0.00086669	1.01E+00	4.95E-03	6.57E-03	9.86E-06	*1.15E-02*	0.42899576	0.57014929	0.00085495
	Selenium	3.5	0.0009109	0.368883506	0.4395661	0.069497653	0.043225	0.0002004	1.13E-01	1.58E-01	9.83E-02	4.56E-04	*2.57E-01*	0.61544257	0.38278279	0.00177464
	Silver	0.3	0.00031272	0.023809524	398.246887	0.004485714	0.003705	6.8797E-05	8.26E-03	1.13E-05	9.30E-06	1.73E-07	*2.07E-05*	0.54309678	0.44857373	0.00832949
	Thallium	0	0.00081441	0	0.1643547	0	0	0.00017917	1.79E-04	0.00E+00	0.00E+00	1.09E-03	*1.09E-03*	0	0	1
X	Vanadium	77.3	0.00609555	6.134920635	0.42848914	1.155819048	0.954655	0.00134102	2.11E+00	2.70E+00	2.23E+00	3.13E-03	*4.93E+00*	0.54731073	0.45205426	0.00063501
	Zinc	4856.18551	0.626	219.7558352	351.65288	41.40199936	59.9738911	0.13772	1.02E+02	1.18E-01	1.71E-01	3.92E-04	*2.89E-01*	0.40784678	0.59079655	0.00135667

Table E.1-78. Maximun Exposure Calculations for Shrew - Station 22-TT22

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.5937491	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	2.4	0					1.353357868	3736.31185	0.254972622	0.02964	0	2.85E-01	6.82E-05	7.93E-06	0.00E+00	*7.62E-05*	0.89585845	0.10414155	0
	cis-1,2-Dichloroethene	0.073	0.00075125					0.044691432	6844.04418	0.008419866	0.00090155	0.00016528	9.49E-03	1.23E-06	1.32E-07	2.41E-08	*1.39E-06*	0.887545	0.09503313	0.01742187
	Tetrachloroethene	2.76225764	0					1.745563267	17	0.328864119	0.03411388	0	3.63E-01	1.98E-02	2.05E-03	0.00E+00	*2.18E-02*	0.90601667	0.09398333	0
	Trichloroethene	0.69772603	0					0.441607395	8.32444981	0.083198833	0.00861692	0	9.18E-02	9.99E-03	1.04E-03	0.00E+00	*1.10E-02*	0.90614991	0.09385009	0
	Semivolatile Organics																			
	2-Methylnaphthalene	0.013	0					0.00860686	170.89	0.001621533	0.00016055	0	1.78E-03	9.49E-06	9.39E-07	0.00E+00	*1.04E-05*	0.90990877	0.09009123	0
	Acenaphthylene	0.012	0					0.008010371	158.52	0.001509154	0.0001482	0	1.66E-03	9.52E-06	9.35E-07	0.00E+00	*1.05E-05*	0.91058036	0.08941964	0
	Anthracene	0.046	0					0.031166587	1189.21	0.005871785	0.0005681	0	6.44E-03	4.94E-06	4.78E-07	0.00E+00	*5.42E-06*	0.91178414	0.08821586	0
	Benzo(a)anthracene	0.3	0					0.212702535	1.55	0.040073158	0.003705	0	4.38E-02	2.59E-02	2.40E-03	0.00E+00	*2.83E-02*	0.91536875	0.08463125	0
	Benzo(a)pyrene	0.2	0					0.143870385	1.55	0.027105181	0.00247	0	2.96E-02	1.75E-02	1.60E-03	0.00E+00	*1.91E-02*	0.91648403	0.08351597	0
	Benzo(b)fluoranthene	0.44	0					0.323909799	1.55	0.061024606	0.005434	0	6.65E-02	3.95E-02	3.51E-03	0.00E+00	*4.30E-02*	0.91823482	0.08176518	0
	Benzo(g,h,i)perylene	0.19	0					0.143530769	158.52	0.027041197	0.0023465	0	2.94E-02	1.71E-04	1.48E-05	0.00E+00	*1.85E-04*	0.92015366	0.07984634	0
	Benzo(k)fluoranthene	0.54	0					0.401749339	1.55	0.075689575	0.006669	0	8.24E-02	4.90E-02	4.31E-03	0.00E+00	*5.33E-02*	0.91902483	0.08097517	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0.4	0					0.28360338	1.55	0.053430877	0.00494	0	5.84E-02	3.46E-02	3.20E-03	0.00E+00	*3.78E-02*	0.91536875	0.08463125	0
	Dibenz(a,h)anthracene	0.044	0					0.031639098	1.55	0.005960806	0.0005434	0	6.50E-03	3.86E-03	3.51E-04	0.00E+00	*4.21E-03*	0.91645406	0.08354594	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0.79688928	0					0.558842462	148.65	0.10528592	0.00984158	0	1.15E-01	7.08E-04	6.62E-05	0.00E+00	*7.74E-04*	0.9145158	0.0854842	0
	Fluorene	0.026	0					0.017430697	148.65	0.003283943	0.0003211	0	3.61E-03	2.21E-05	2.16E-06	0.00E+00	*2.43E-05*	0.91093034	0.08906966	0
	Indeno(1,2,3-cd)pyrene	0.22	0					0.169014549	1.55	0.031842341	0.002717	0	3.46E-02	2.06E-02	1.76E-03	0.00E+00	*2.24E-02*	0.9213816	0.0786184	0
	Naphthalene	0.025	0.0031184					0.01623721	166.49	0.00305909	0.00030875	0.00068605	4.05E-03	1.84E-05	1.85E-06	4.12E-06	*2.43E-05*	0.75460631	0.07616143	0.16923227
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0.49	0					0.332121882	158.52	0.062571763	0.0060515	0	6.86E-02	3.95E-04	3.82E-05	0.00E+00	*4.33E-04*	0.91181562	0.08818438	0
	Pyrene	0.61	0					0.425276363	158.52	0.080122067	0.0075335	0	8.77E-02	5.05E-04	4.75E-05	0.00E+00	*5.53E-04*	0.91405566	0.08594434	0
	Pesticides and PCBs																			
	4,4'-DDD	0.0096	0					0.006908482	18.68	0.001301558	0.00011856	0	1.42E-03	6.97E-05	6.35E-06	0.00E+00	*7.60E-05*	0.91651398	0.08348602	0
	4,4'-DDE	0.031	0					0.022048198	2.26	0.004153881	0.00038285	0	4.54E-03	1.84E-03	1.69E-04	0.00E+00	*2.01E-03*	0.91561103	0.08438897	0
	4,4'-DDT	0.0027	0					0.001958282	1.76	0.00036894	3.3345E-05	0	4.02E-04	2.10E-04	1.90E-05	0.00E+00	*2.29E-04*	0.91711106	0.08288894	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0.0012	0.0000021					0.000874788	5.45	0.00016481	0.00001482	4.62E-07	1.80E-04	3.03E-05	2.72E-06	8.48E-08	*3.31E-05*	0.91514337	0.08229127	0.00256536
	Aroclor 1248	0.0081	0					0.005877145	1.55	0.001107254	0.00010004	0	1.21E-03	7.16E-04	6.47E-05	0.00E+00	*7.81E-04*	0.91714081	0.08285919	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0.029	0					0.021541672	0.76	0.004058451	0.00035815	0	4.42E-03	5.35E-03	4.72E-04	0.00E+00	*5.82E-03*	0.91890823	0.08109177	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0.00016	0					0.000107098	3.52	2.01773E-05	1.976E-06	0	2.22E-05	5.74E-06	5.62E-07	0.00E+00	*6.30E-06*	0.91080321	0.08919679	0
	Endosulfan I	0.00429311	0					0.002869153	3.30	0.000540548	5.302E-05	0	5.94E-04	1.64E-04	1.61E-05	0.00E+00	*1.80E-04*	0.91067593	0.08932407	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0.0033	0					0.002338812	0.11	0.000440632	4.0755E-05	0	4.81E-04	4.03E-03	3.73E-04	0.00E+00	*4.40E-03*	0.91533843	0.08466157	0
	gamma-Chlordane	0.00019	0.0000014					0.000138508	5.45	2.60949E-05	2.3465E-06	3.08E-07	2.87E-05	4.79E-06	4.31E-07	5.65E-08	*5.28E-06*	0.90766769	0.08161905	0.01071326
	Inorganics																			
X	Aluminum	10257.8063	2.18					553.5958958	58.2711486	104.2974668	126.683908	0.4796	2.31E+02	1.79E+00	2.17E+00	8.23E-03	*3.97E+00*	0.45060498	0.54732297	0.00207206
X	Antimony	329	0.00095462					26.11111111	0.14865089	4.919333333	4.06315	0.00021002	8.98E+00	3.31E+01	2.73E+01	1.41E-03	*6.04E+01*	0.54764569	0.45233093	2.338E-05
X	Arsenic	77.2829668	0.04632573					0.825114344	0.1498401	0.155451542	0.48676677	0.01019166	6.52E-01	1.04E+00	3.25E+00	6.80E-02	*4.35E+00*	0.23827279	0.74610565	0.01562156
	Barium	49.4147466	0.04346373					2.823699806	11.8350385	0.531985043	0.61027212	0.00956202	1.15E+00	4.50E-02	5.16E-02	8.08E-04	*9.73E-02*	0.46186507	0.52983327	0.00830167
	Beryllium	0.68542662	0.00015051					0.054398938	1.45056813	0.01024876	0.00846502	3.3113E-05	1.87E-02	7.07E-03	5.84E-03	2.28E-05	*1.29E-02*	0.54669117	0.45154253	0.0017663
	Cadmium	1.43448252	0.0025					1.751179669	2.12000967	0.32992225	0.01771586	0.00055	3.48E-01	1.56E-01	8.36E-03	2.59E-04	*1.64E-01*	0.94754026	0.05088014	0.00157961
	Chromium	64.9545852	0.05886398					1.434495508	19.7804745	0.270258954	0.80218913	0.01295008	1.09E+00	1.37E-02	4.06E-02	6.55E-04	*5.49E-02*	0.24899522	0.7390736	0.01193118
	Cobalt	4.25067675	0.0039065					0.337355298	10.99	0.063557738	0.05249586	0.00085943	1.17E-01	5.78E-03	4.78E-03	7.82E-05	*1.06E-02*	0.54363265	0.44901633	0.00735103
	Copper	29.3391131	0.07123821					2.067800801	33.43	0.389573671	0.36233805	0.01567241	7.68E-01	1.17E-02	1.08E-02	4.69E-04	*2.30E-02*	0.50753222	0.47204995	0.02041783
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	9141.96918	6.8492234					551.4203632	7.01	103.8875964	112.903319	1.50682915	2.18E+02	1.48E+01	1.61E+01	2.15E-01	*3.11E+01*	0.47589862	0.51719874	0.00690263
X	Lead	32501.2835	0.0759					558.5819911	17.582644	105.2368471	401.390852	0.016698	5.07E+02	5.99E+00	2.28E+01	9.50E-04	*2.88E+01*	0.20771343	0.79225361	3.2958E-05
	Manganese	116.476236	0.57916724					1.813380999	193.41	0.34164098	1.43848151	0.12741679	1.91E+00	1.77E-03	7.44E-03	6.59E-04	*9.86E-03*	0.17910036	0.75410322	0.06679642
	Mercury	0.46493446	0.00060956					0.073173572	0.07033058	0.013785901	0.00574194	0.0001341	1.97E-02	1.96E-01	8.16E-02	1.91E-03	*2.80E-01*	0.70114636	0.2920332	0.00682044
	Nickel	11.3657557	0.00393951					3.335067929	87.9132201	0.628326798	0.14036708	0.00086669	7.70E-01	7.15E-03	1.60E-03	9.86E-06	*8.75E-03*	0.81647478	0.18239901	0.00112622
	Selenium	5.70224018	0.0009109					0.52755618	0.4395661	0.099391584	0.07042267	0.0002004	1.70E-01	2.26E-01	1.60E-01	4.56E-04	*3.87E-01*	0.584606	0.41421529	0.00117871
	Silver	2.88203483	0.00031272					0.228732923	398.246887	0.043093283	0.03559313	6.8797E-05	7.88E-02	1.08E-04	8.94E-05	1.73E-07	*1.98E-04*	0.54718009	0.45194635	0.00087356
	Thallium	0.57109094	0.00081441					0.045324678	0.1643547	0.008539169	0.00705297	0.00017917	1.58E-02	5.20E-02	4.29E-02	1.09E-03	*9.60E-02*	0.54143682	0.44720268	0.0113605
X	Vanadium	40.5798891	0.00609555					3.22062612	0.42848914	0.606765961	0.50116163	0.00134102	1.11E+00	1.42E+00	1.17E+00	3.13E-03	*2.59E+00*	0.54699642	0.45179466	0.00120892
	Zinc	95.5905575	0.626					60.59149828	351.65288	11.41543828	1.18054339	0.13772	1.27E+01	3.25E-02	3.36E-03	3.92E-04	*3.62E-02*	0.89647446	0.09271015	0.01081539

Table E.1-79. Maximun Exposure Calculations for Shrew - Station BW

	Maximum Concentrations Compound	C Soil (mg/Kg)	C Water (mg/L)					C Prey (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.5937491	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.31185	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0.417	0.00075125					0.392278186	6844.04418	0.07390521	0.00514995	0.00016528	7.92E-02	1.08E-05	7.52E-07	2.41E-08	*1.16E-05*	0.93290587	0.06500785	0.00208628
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0.053	0					0.051544695	8.32444981	0.009711021	0.00065455	0	1.04E-02	1.17E-03	7.86E-05	0.00E+00	*1.25E-03*	0.93685345	0.06314655	0
	Semivolatile Organics																			
	2-Methylnaphthalene	0.013	0					0.013225176	170.89	0.002491623	0.00016055	0	2.65E-03	1.46E-05	9.39E-07	0.00E+00	*1.55E-05*	0.93946474	0.06053526	0
	Acenaphthylene	0.019	0					0.019488648	158.52	0.003671661	0.00023465	0	3.91E-03	2.32E-05	1.48E-06	0.00E+00	*2.46E-05*	0.93993054	0.06006946	0
	Anthracene	0.069	0					0.071835182	1189.21	0.013533748	0.00085215	0	1.44E-02	1.14E-05	7.17E-07	0.00E+00	*1.21E-05*	0.94076491	0.05923509	0
	Benzo(a)anthracene	0.56	0					0.610093124	1.55	0.114941545	0.006916	0	1.22E-01	7.43E-02	4.47E-03	0.00E+00	*7.88E-02*	0.9432452	0.0567548	0
	Benzo(a)pyrene	1	0					1.105345642	1.55	0.208247119	0.01235	0	2.21E-01	1.35E-01	7.99E-03	0.00E+00	*1.43E-01*	0.94401559	0.05598441	0
	Benzo(b)fluoranthene	1.5	0					1.696755878	1.55	0.319668807	0.018525	0	3.38E-01	2.07E-01	1.20E-02	0.00E+00	*2.19E-01*	0.94522372	0.05477628	0
	Benzo(g,h,i)perylene	0.64	0					0.742896098	158.52	0.139961625	0.007904	0	1.48E-01	8.83E-04	4.99E-05	0.00E+00	*9.33E-04*	0.94654606	0.05345394	0
	Benzo(k)fluoranthene	0.72	0					0.823096206	1.55	0.155071325	0.008892	0	1.64E-01	1.00E-01	5.75E-03	0.00E+00	*1.06E-01*	0.94576836	0.05423164	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0.85	0					0.926034206	1.55	0.174464844	0.0104975	0	1.85E-01	1.13E-01	6.79E-03	0.00E+00	*1.20E-01*	0.9432452	0.0567548	0
	Dibenz(a,h)anthracene	0.32	0					0.353572176	1.55	0.066612998	0.003952	0	7.06E-02	4.31E-02	2.56E-03	0.00E+00	*4.56E-02*	0.9439949	0.0560051	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	1.2	0					1.293091775	148.65	0.24361849	0.01482	0	2.58E-01	1.64E-03	9.97E-05	0.00E+00	*1.74E-03*	0.9426556	0.0573444	0
	Fluorene	0.047	0					0.048416786	148.65	0.009121723	0.00058045	0	9.70E-03	6.14E-05	3.90E-06	0.00E+00	*6.53E-05*	0.94017319	0.05982681	0
	Indeno(1,2,3-cd)pyrene	0.74	0					0.873554133	1.55	0.164577599	0.009139	0	1.74E-01	1.06E-01	5.91E-03	0.00E+00	*1.12E-01*	0.94739133	0.05260867	0
	Naphthalene	0.026	0.0031184					0.025947854	166.49	0.004888576	0.0003211	0.00068605	5.90E-03	2.94E-05	1.93E-06	4.12E-06	*3.54E-05*	0.82917301	0.05446319	0.11636379
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0.57	0					0.593653399	158.52	0.1118443	0.0070395	0	1.19E-01	7.06E-04	4.44E-05	0.00E+00	*7.50E-04*	0.94078672	0.05921328	0
	Pyrene	1	0					1.071267929	158.52	0.201826878	0.01235	0	2.14E-01	1.27E-03	7.79E-05	0.00E+00	*1.35E-03*	0.94233738	0.05766262	0
	Pesticides and PCBs																			
	4,4'-DDD	0.017	0					0.018798233	18.68	0.003541587	0.00020995	0	3.75E-03	1.90E-04	1.12E-05	0.00E+00	*2.01E-04*	0.94403627	0.05596373	0
	4,4'-DDE	0.004	0					0.004371476	2.26	0.000823586	0.0000494	0	8.73E-04	3.65E-04	2.19E-05	0.00E+00	*3.86E-04*	0.94341261	0.05658739	0
	4,4'-DDT	0.0013	0					0.00144881	1.76	0.000272956	1.6055E-05	0	2.89E-04	1.55E-04	9.13E-06	0.00E+00	*1.64E-04*	0.94444845	0.05555155	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0.0024	0.0000021					0.002688372	5.45	0.000506489	0.00002964	4.62E-07	5.37E-04	9.30E-05	5.44E-06	8.48E-08	*9.85E-05*	0.94390143	0.05523757	0.00086099
	Aroclor 1248	0.028	0					0.031217357	1.55	0.00588135	0.0003458	0	6.23E-03	3.80E-03	2.24E-04	0.00E+00	*4.03E-03*	0.94446898	0.05553102	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0.058	0					0.066201236	0.76	0.012472313	0.0007163	0	1.32E-02	1.64E-02	9.45E-04	0.00E+00	*1.74E-02*	0.945688	0.054312	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0.0018	0					0.001960246	0.11	0.00036931	0.00002223	0	3.92E-04	3.38E-03	2.03E-04	0.00E+00	*3.58E-03*	0.94322425	0.05677575	0
	gamma-Chlordane	0.0017	0.0000014					0.001904263	5.45	0.000358763	2.0995E-05	3.08E-07	3.80E-04	6.59E-05	3.85E-06	5.65E-08	*6.98E-05*	0.94394924	0.05524037	0.00081039
	Inorganics																			
X	Aluminum	21849.7587	2.18					1179.193326	58.2711486	222.1600227	269.84452	0.4796	4.92E+02	3.81E+00	4.63E+00	8.23E-03	*8.45E+00*	0.45110086	0.5479253	0.00097384
X	Antimony	62.5754428	0.00095462					4.966304984	0.14865089	0.935651859	0.77280672	0.00021002	1.71E+00	6.29E+00	5.20E+00	1.41E-03	*1.15E+01*	0.54759118	0.4522859	0.00012291
X	Arsenic	3036.48489	0.04632573					11.01744742	0.1498401	2.075687094	19.1253001	0.01019166	2.12E+01	1.39E+01	1.28E+02	6.80E-02	*1.42E+02*	0.09785817	0.90166135	0.00048049
	Barium	165.604484	0.04346373					9.46311336	11.8350385	1.782850557	2.04521537	0.00956202	3.84E+00	1.51E-01	1.73E-01	8.08E-04	*3.24E-01*	0.46457097	0.53293738	0.00249165
	Beryllium	1.65234967	0.00015051					0.131138863	1.45056813	0.024706562	0.02040652	3.3113E-05	4.51E-02	1.70E-02	1.41E-02	2.28E-05	*3.11E-02*	0.54725682	0.45200973	0.00073345
	Cadmium	12.2	0.0025					9.603157064	2.12000967	1.809234791	0.15067	0.00055	1.96E+00	8.53E-01	7.11E-02	2.59E-04	*9.25E-01*	0.92286484	0.07685462	0.00028055
X	Chromium	2034.65106	0.05886398					1.138872812	19.7804745	0.214563638	25.1279406	0.01295008	2.54E+01	1.08E-02	1.27E+00	6.55E-04	*1.28E+00*	0.00846223	0.99102703	0.00051074
	Cobalt	51.0757614	0.0039065					4.053631854	10.99	0.763704241	0.63078565	0.00085943	1.40E+00	6.95E-02	5.74E-02	7.82E-05	*1.27E-01*	0.54732118	0.45206289	0.00061593
	Copper	1519.89093	0.07123821					5.862747247	33.43	1.104541581	18.770653	0.01567241	1.99E+01	3.30E-02	5.61E-01	4.69E-04	*5.95E-01*	0.05553009	0.94368199	0.00078792
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	149490.536	6.8492234					9016.889444	7.01	1698.781971	1846.20811	1.50682915	3.55E+03	2.42E+02	2.63E+02	2.15E-01	*5.06E+02*	0.47900281	0.52057232	0.00042488
	Lead	866.179113	0.0759					29.9662673	17.582644	5.645644759	10.697312	0.016698	1.64E+01	3.21E-01	6.08E-01	9.50E-04	*9.30E-01*	0.34509559	0.65388373	0.00102068
	Manganese	1391.78414	0.57916724					9.845351362	193.41	1.854864197	17.1885341	0.12741679	1.92E+01	9.59E-03	8.89E-02	6.59E-04	*9.91E-02*	0.09675458	0.89659902	0.00664639
X	Mercury	15.5414294	0.00060956					0.110712832	0.07033058	0.020858298	0.19193665	0.0001341	2.13E-01	2.97E-01	2.73E+00	1.91E-03	*3.03E+00*	0.09795891	0.90141129	0.0006298
	Nickel	41.4031554	0.00393951					2.383041216	87.9132201	0.448964965	0.51132897	0.00086669	9.61E-01	5.11E-03	5.82E-03	9.86E-06	*1.09E-02*	0.46710711	0.53199117	0.00090171
	Selenium	13.7616793	0.0009109					1.006314003	0.4395661	0.189589558	0.16995674	0.0002004	3.60E-01	4.31E-01	3.87E-01	4.56E-04	*8.18E-01*	0.52700848	0.47243447	0.00055705
	Silver	2.09261001	0.00031272					0.16608016	398.246887	0.031289502	0.02584373	6.8797E-05	5.72E-02	7.86E-05	6.49E-05	1.73E-07	*1.44E-04*	0.54699982	0.45179747	0.00120271
X	Thallium	13.2983691	0.00081441					1.055426123	0.1643547	0.198842282	0.16423486	0.00017917	3.63E-01	1.21E+00	9.99E-01	1.09E-03	*2.21E+00*	0.54738838	0.45211839	0.00049323
X	Vanadium	92.330898	0.00609555					7.327849048	0.42848914	1.380566761	1.14028659	0.00134102	2.52E+00	3.22E+00	2.66E+00	3.13E-03	*5.89E+00*	0.54736731	0.452101	0.00053169
	Zinc	2590.16292	0.626					178.8161959	351.65288	33.68897131	31.9885121	0.13772	6.58E+01	9.58E-02	9.10E-02	3.92E-04	*1.87E-01*	0.51187217	0.4860353	0.00209253

Table E.1-80. Maximun Exposure Calculations for Shrew - Station CB-01

	Maximum Concentrations Compound	C Soil (mg/Kg)	C Water (mg/L)					C Prey (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.593749	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.3119	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.004					0	6844.0442	0	0	0.00088	8.80E-04	0.00E+00	0.00E+00	1.29E-07	*1.29E-07*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0.002					0	8.3244498	0	0	0.00044	4.40E-04	0.00E+00	0.00E+00	5.29E-05	*5.29E-05*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0					0	166.49	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Inorganics																			
X	Aluminum	14742.402	0.3255					795.6216981	58.271149	149.8951279	182.06867	0.07161	3.32E+02	2.57E+00	3.12E+00	1.23E-03	*5.70E+00*	0.4514432	0.5483411	0.0002157
	Antimony	2.0461201	0					0.162390481	0.1486509	0.030594367	0.0252696	0	5.59E-02	2.06E-01	1.70E-01	0.00E+00	*3.76E-01*	0.5476585	0.4523415	0
X	Arsenic	57.959259	0.01975					0.67342882	0.1498401	0.12687399	0.3650564	0.004345	4.96E-01	8.47E-01	2.44E+00	2.90E-02	*3.31E+00*	0.2556524	0.7355924	0.0087552
	Barium	59.142986	0.03575					3.379599196	11.835039	0.636716489	0.7304159	0.007865	1.37E+00	5.38E-02	6.17E-02	6.65E-04	*1.16E-01*	0.4630674	0.5312126	0.00572
	Beryllium	1.3516929	0.000043					0.107277215	1.4505681	0.020211027	0.0166934	9.46E-06	3.69E-02	1.39E-02	1.15E-02	6.52E-06	*2.54E-02*	0.5475181	0.4522256	0.0002563
	Cadmium	9.2685851	0.00023					7.718513263	2.1200097	1.454167899	0.114467	0.0000506	1.57E+00	6.86E-01	5.40E-02	2.39E-05	*7.40E-01*	0.9269977	0.07297	3.226E-05
	Chromium	332.36071	0.0121					1.285867448	19.780475	0.242257427	4.1046547	0.002662	4.35E+00	1.22E-02	2.08E-01	1.35E-04	*2.20E-01*	0.0556968	0.9436912	0.000612
	Cobalt	13.981034	0.0019					1.109605843	10.99	0.209049741	0.1726658	0.000418	3.82E-01	1.90E-02	1.57E-02	3.80E-05	*3.48E-02*	0.5470594	0.4518467	0.0010939
	Copper	749.36168	0.01375					4.864309983	33.43	0.916436001	9.2546167	0.003025	1.02E+01	2.74E-02	2.77E-01	9.05E-05	*3.04E-01*	0.0900756	0.9096271	0.0002973
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	18702.176	1.935					1128.067784	7.01	212.5279704	230.97188	0.4257	4.44E+02	3.03E+01	3.29E+01	6.07E-02	*6.33E+01*	0.4787469	0.5202942	0.0009589
	Lead	443.09295	0.0077					17.44634959	17.582644	3.286892263	5.472198	0.001694	8.76E+00	1.87E-01	3.11E-01	9.63E-05	*4.98E-01*	0.3751824	0.6246242	0.0001934
	Manganese	687.78382	0.7775					6.087758715	193.41	1.146933742	8.4941302	0.17105	9.81E+00	5.93E-03	4.39E-02	8.84E-04	*5.07E-02*	0.1168896	0.8656779	0.0174325
	Mercury	2.9454641	0.0001475					0.090983401	0.0703306	0.017141273	0.0363765	3.245E-05	5.36E-02	2.44E-01	5.17E-01	4.61E-04	*7.61E-01*	0.3200972	0.6792968	0.000606
	Nickel	20.433344	0.0022					2.863333859	87.91322	0.539452099	0.2523518	0.000484	7.92E-01	6.14E-03	2.87E-03	5.51E-06	*9.01E-03*	0.6808789	0.3185102	0.0006109
	Selenium	4.9801501	0					0.477711902	0.4395661	0.090000922	0.0615049	0	1.52E-01	2.05E-01	1.40E-01	0.00E+00	*3.45E-01*	0.5940428	0.4059572	0
	Silver	0.4259608	0					0.033806413	398.24689	0.006369128	0.0052606	0	1.16E-02	1.60E-05	1.32E-05	0.00E+00	*2.92E-05*	0.5476585	0.4523415	0
	Thallium	2.5460299	0					0.202065866	0.1643547	0.038069209	0.0314435	0	6.95E-02	2.32E-01	1.91E-01	0.00E+00	*4.23E-01*	0.5476585	0.4523415	0
X	Vanadium	79.344979	0.00165					6.297220592	0.4284891	1.186396359	0.9799105	0.000363	2.17E+00	2.77E+00	2.29E+00	8.47E-04	*5.06E+00*	0.5475667	0.4522657	0.0001675
	Zinc	638.31477	0.09175					112.9502029	351.65288	21.27981823	7.8831874	0.020185	2.92E+01	6.05E-02	2.24E-02	5.74E-05	*8.30E-02*	0.7291807	0.2701277	0.0006917

Table E.1-81. Maximun Exposure Calculations for Shrew - Station CB-02

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.5937491	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.31185	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.004					0	6844.04418	0	0	0.00088	8.80E-04	0.00E+00	0.00E+00	1.29E-07	*1.29E-07*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0.002					0	8.32444981	0	0	0.00044	4.40E-04	0.00E+00	0.00E+00	5.29E-05	*5.29E-05*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0					0	166.49	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Inorganics																			
X	Aluminum	5408.95012	0.3255					291.9115935	58.2711486	54.99614422	66.8005339	0.07161	1.22E+02	9.44E-01	1.15E+00	1.23E-03	*2.09E+00*	0.45127527	0.54813713	0.0005876
	Antimony	1.79511807	0					0.142469688	0.14865089	0.026841289	0.02216971	0	4.90E-02	1.81E-01	1.49E-01	0.00E+00	*3.30E-01*	0.5476585	0.4523415	0
X	Arsenic	41.4539158	0.01975					0.531530601	0.1498401	0.100140365	0.26109749	0.004345	3.66E-01	6.68E-01	1.74E+00	2.90E-02	*2.44E+00*	0.27391975	0.71419512	0.01188513
	Barium	170.724223	0.03575					9.755669873	11.8350385	1.837968204	2.10844415	0.007865	3.95E+00	1.55E-01	1.78E-01	6.65E-04	*3.34E-01*	0.46480508	0.53320593	0.00198899
	Beryllium	0.33970886	0.000043					0.02696102	1.45056813	0.005079456	0.0041954	0.00000946	9.28E-03	3.50E-03	2.89E-03	6.52E-06	*6.40E-03*	0.54710048	0.4518806	0.00101892
	Cadmium	3.83862367	0.00023					3.829812593	2.12000967	0.721536693	0.047407	0.0000506	7.69E-01	3.40E-01	2.24E-02	2.39E-05	*3.63E-01*	0.93828615	0.06164805	6.58E-05
	Chromium	143.572118	0.0121					1.36025507	19.7804745	0.256272055	1.77311565	0.002662	2.03E+00	1.30E-02	8.96E-02	1.35E-04	*1.03E-01*	0.12611505	0.87257494	0.00131001
	Cobalt	5.32635233	0.0019					0.422726376	10.99	0.079641649	0.06578045	0.000418	1.46E-01	7.25E-03	5.99E-03	3.80E-05	*1.33E-02*	0.54608883	0.45104502	0.00286615
	Copper	97.6131089	0.01375					2.840094853	33.43	0.53507387	1.20552189	0.003025	1.74E+00	1.60E-02	3.61E-02	9.05E-05	*5.22E-02*	0.30687514	0.69138996	0.0017349
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	6897.57227	1.935					416.0440414	7.01	78.3826974	85.1850175	0.4257	1.64E+02	1.12E+01	1.22E+01	6.07E-02	*2.34E+01*	0.47796247	0.5194417	0.00259584
	Lead	238.183429	0.0077					10.57184652	17.582644	1.991735884	2.94156535	0.001694	4.93E+00	1.13E-01	1.67E-01	9.63E-05	*2.81E-01*	0.40359429	0.59606245	0.00034326
	Manganese	71.988994	0.7775					1.306082735	193.41	0.246065987	0.88906408	0.17105	1.31E+00	1.27E-03	4.60E-03	8.84E-04	*6.75E-03*	0.18838596	0.68065966	0.13095438
	Mercury	0.32790571	0.0001475					0.070219932	0.07033058	0.013229435	0.00404964	0.00003245	1.73E-02	1.88E-01	5.76E-02	4.61E-04	*2.46E-01*	0.76419833	0.23392719	0.00187447
	Nickel	9.98127532	0.0022					3.449624926	87.9132201	0.649909336	0.12326875	0.000484	7.74E-01	7.39E-03	1.40E-03	5.51E-06	*8.80E-03*	0.84004289	0.15933151	0.0006256
	Selenium	1.94222075	0					0.239557752	0.4395661	0.04513268	0.02398643	0	6.91E-02	1.03E-01	5.46E-02	0.00E+00	*1.57E-01*	0.65296967	0.34703033	0
	Silver	0	0					0	398.246887	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Thallium	0.54088189	0					0.042927134	0.1643547	0.008087472	0.00667989	0	1.48E-02	4.92E-02	4.06E-02	0.00E+00	*8.99E-02*	0.5476585	0.4523415	0
X	Vanadium	31.9110657	0.00165					2.532624262	0.42848914	0.477146411	0.39410166	0.000363	8.72E-01	1.11E+00	9.20E-01	8.47E-04	*2.03E+00*	0.54743041	0.45215311	0.00041647
	Zinc	314.055744	0.09175					89.50633671	351.65288	16.86299384	3.87858844	0.020185	2.08E+01	4.80E-02	1.10E-02	5.74E-05	*5.90E-02*	0.8122138	0.18681398	0.00097222

Table E.1-82. Maximun Exposure Calculations for Shrew - Station CB-03

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.004					0	6844.044183	0	0	0.00088	8.80E-04	0.00E+00	0.00E+00	1.29E-07	*1.29E-07*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0.002					0	8.324449805	0	0	0.00044	4.40E-04	0.00E+00	0.00E+00	5.29E-05	*5.29E-05*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0					0	166.49	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Inorganics																			
X	Aluminum	11284.00588	0.3255					608.9780953	58.27114864	114.7314732	139.3574727	0.07161	2.54E+02	1.97E+00	2.39E+00	1.23E-03	*4.36E+00*	0.451413371	0.548304878	0.000281751
	Antimony	4.8	0					0.380952381	0.148650889	0.071771429	0.05928	0	1.31E-01	4.83E-01	3.99E-01	0.00E+00	*8.82E-01*	0.547658498	0.452341502	0
X	Arsenic	594.5475445	0.01975					3.484197061	0.149840096	0.656422726	3.744757709	0.004345	4.41E+00	4.38E+00	2.50E+01	2.90E-02	*2.94E+01*	0.148999872	0.850013866	0.000986261
	Barium	66.58016156	0.03575					3.80458066	11.83503851	0.716782996	0.822264995	0.007865	1.55E+00	6.06E-02	6.95E-02	6.65E-04	*1.31E-01*	0.463363486	0.531552194	0.00508432
	Beryllium	0.660846891	0.000043					0.052448166	1.450568131	0.009881234	0.008161459	0.00000946	1.81E-02	6.81E-03	5.63E-03	6.52E-06	*1.24E-02*	0.547371505	0.452104458	0.000524037
	Cadmium	13.06217083	0.00023					10.13888453	2.120009672	1.910165845	0.16131781	0.0000506	2.07E+00	9.01E-01	7.61E-02	2.39E-05	*9.77E-01*	0.922101983	0.07787359	2.44263E-05
	Chromium	768	0.0121					1.215695612	19.78047452	0.229037053	9.4848	0.002662	9.72E+00	1.16E-02	4.80E-01	1.35E-04	*4.91E-01*	0.023571973	0.97615406	0.000273967
	Cobalt	63.39523092	0.0019					5.031367533	10.99	0.947909643	0.782931102	0.000418	1.73E+00	8.63E-02	7.12E-02	3.80E-05	*1.58E-01*	0.54752627	0.452232287	0.000241443
	Copper	376.4119981	0.01375					4.055812281	33.43	0.764115034	4.648688176	0.003025	5.42E+00	2.29E-02	1.39E-01	9.05E-05	*1.62E-01*	0.14108923	0.858352222	0.000558548
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	50627.25698	1.935					3053.707564	7.01	575.3185051	625.2466237	0.4257	1.20E+03	8.21E+01	8.92E+01	6.07E-02	*1.71E+02*	0.479036552	0.520608991	0.000354457
	Lead	273.8405358	0.0077					11.83161166	17.58264402	2.229075637	3.381930618	0.001694	5.61E+00	1.27E-01	1.92E-01	9.63E-05	*3.19E-01*	0.397148527	0.602549658	0.000301816
	Manganese	463.7515283	0.7775					4.652879557	193.41	0.876602509	5.727331375	0.17105	6.77E+00	4.53E-03	2.96E-02	8.84E-04	*3.50E-02*	0.129388132	0.845364576	0.025247293
	Mercury	2.450349294	0.0001475					0.089028884	0.070330576	0.016773042	0.030261814	0.00003245	4.71E-02	2.38E-01	4.30E-01	4.61E-04	*6.69E-01*	0.356362906	0.642947655	0.000689438
	Nickel	36.9580154	0.0022					2.454460239	87.91322008	0.462420309	0.45643149	0.000484	9.19E-01	5.26E-03	5.19E-03	5.51E-06	*1.05E-02*	0.502993911	0.496479622	0.000526467
	Selenium	5.259614111	0					0.497217671	0.4395661	0.093675809	0.064956234	0	1.59E-01	2.13E-01	1.48E-01	0.00E+00	*3.61E-01*	0.590522615	0.409477385	0
	Silver	3.2	0					0.253968254	398.246887	0.047847619	0.03952	0	8.74E-02	1.20E-04	9.92E-05	0.00E+00	*2.19E-04*	0.547658498	0.452341502	0
	Thallium	0.967913038	0					0.076818495	0.164354697	0.014472604	0.011953726	0	2.64E-02	8.81E-02	7.27E-02	0.00E+00	*1.61E-01*	0.547658498	0.452341502	0
X	Vanadium	62.41075564	0.00165					4.953234574	0.428489138	0.933189394	0.770772832	0.000363	1.70E+00	2.18E+00	1.80E+00	8.47E-04	*3.98E+00*	0.547541854	0.452245159	0.000212988
	Zinc	2098.535315	0.09175					166.8876155	351.6528803	31.44162676	25.91691114	0.020185	5.74E+01	8.94E-02	7.37E-02	5.74E-05	*1.63E-01*	0.547966653	0.451681561	0.000351785

Table E.1-83. Maximun Exposure Calculations for Shrew - Station CB-04

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.004					0	6844.044183	0	0	0.00088	8.80E-04	0.00E+00	0.00E+00	1.29E-07	*1.29E-07*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0.002					0	8.324449805	0	0	0.00044	4.40E-04	0.00E+00	0.00E+00	5.29E-05	*5.29E-05*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0					0	166.49	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Inorganics																			
X	Aluminum	11027.3257	0.3255					595.125514	58.27114864	112.1216468	136.1874724	0.07161	2.48E+02	1.92E+00	2.34E+00	1.23E-03	*4.26E+00*	0.45141041	0.548301283	0.000288307
	Antimony	4.770623468	0					0.37862091	0.148650889	0.071332179	0.0589172	0	1.30E-01	4.80E-01	3.96E-01	0.00E+00	*8.76E-01*	0.547658498	0.452341502	0
X	Arsenic	181.6891961	0.01975					1.508736262	0.149840096	0.284245912	1.144369402	0.004345	1.43E+00	1.90E+00	7.64E+00	2.90E-02	*9.56E+00*	0.198362724	0.798605091	0.003032184
	Barium	76.62750766	0.03575					4.378714724	11.83503851	0.824949854	0.94634972	0.007865	1.78E+00	6.97E-02	8.00E-02	6.65E-04	*1.50E-01*	0.463672595	0.531906791	0.004420614
	Beryllium	0.772513831	0.000043					0.061310621	1.450568131	0.011550921	0.009540546	0.00000946	2.11E-02	7.96E-03	6.58E-03	6.52E-06	*1.45E-02*	0.547412971	0.452138707	0.000448322
	Cadmium	5.715249936	0.00023					5.255341897	2.120009672	0.990106413	0.070583337	0.0000506	1.06E+00	4.67E-01	3.33E-02	2.39E-05	*5.00E-01*	0.93341072	0.066541578	4.77025E-05
	Chromium	272.3036013	0.0121					1.303153197	19.78047452	0.245514062	3.362949476	0.002662	3.61E+00	1.24E-02	1.70E-01	1.35E-04	*1.83E-01*	0.067988238	0.931274596	0.000737166
	Cobalt	11.25055264	0.0019					0.892901003	10.99	0.168222549	0.138944325	0.000418	3.08E-01	1.53E-02	1.26E-02	3.80E-05	*2.80E-02*	0.546914244	0.451726781	0.001358974
	Copper	244.3024014	0.01375					3.61839201	33.43	0.681705055	3.017134657	0.003025	3.70E+00	2.04E-02	9.02E-02	9.05E-05	*1.11E-01*	0.184151801	0.815031043	0.000817156
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	39923.02314	1.935					2408.055364	7.01	453.6776305	493.0493357	0.4257	9.47E+02	6.47E+01	7.03E+01	6.07E-02	*1.35E+02*	0.478991029	0.520559518	0.000449452
	Lead	275.5444279	0.0077					11.89098638	17.58264402	2.240261834	3.402973684	0.001694	5.64E+00	1.27E-01	1.94E-01	9.63E-05	*3.21E-01*	0.396862676	0.602837232	0.000300092
	Manganese	1380.41729	0.7775					9.790441621	193.41	1.844519201	17.04815353	0.17105	1.91E+01	9.54E-03	8.81E-02	8.84E-04	*9.86E-02*	0.096755457	0.894272004	0.008972539
	Mercury	1.210417488	0.0001475					0.081919705	0.070330576	0.015433672	0.014948656	0.00003245	3.04E-02	2.19E-01	2.13E-01	4.61E-04	*4.32E-01*	0.507439911	0.491493174	0.001066916
	Nickel	76.71355888	0.0022					2.029988113	87.91322008	0.382449761	0.947412452	0.000484	1.33E+00	4.35E-03	1.08E-02	5.51E-06	*1.51E-02*	0.287481377	0.712154808	0.000363815
	Selenium	3.90442101	0					0.399667081	0.4395661	0.075297278	0.048219599	0	1.24E-01	1.71E-01	1.10E-01	0.00E+00	*2.81E-01*	0.609611249	0.390388751	0
	Silver	11.5	0					0.912698413	398.246887	0.171952381	0.142025	0	3.14E-01	4.32E-04	3.57E-04	0.00E+00	*7.88E-04*	0.547658498	0.452341502	0
	Thallium	5.3	0					0.420634921	0.164354697	0.079247619	0.065455	0	1.45E-01	4.82E-01	3.98E-01	0.00E+00	*8.80E-01*	0.547658498	0.452341502	0
X	Vanadium	68.38234999	0.00165					5.427170634	0.428489138	1.022478947	0.844522022	0.000363	1.87E+00	2.39E+00	1.97E+00	8.47E-04	*4.36E+00*	0.547552038	0.45225357	0.000194392
	Zinc	3066.066352	0.09175					188.988038	351.6528803	35.60534637	37.86591945	0.020185	7.35E+01	1.01E-01	1.08E-01	5.74E-05	*2.09E-01*	0.484482834	0.515242508	0.000274658

Table E.1-84. Maximun Exposure Calculations for Shrew - Station CB-05

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.004					0	6844.044183	0	0	0.00088	8.80E-04	0.00E+00	0.00E+00	1.29E-07	*1.29E-07*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0.002					0	8.324449805	0	0	0.00044	4.40E-04	0.00E+00	0.00E+00	5.29E-05	*5.29E-05*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0					0	166.49	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Inorganics																			
X	Aluminum	6209.900363	0.3255					335.1374799	58.27114864	63.13990122	76.69226949	0.07161	1.40E+02	1.08E+00	1.32E+00	1.23E-03	*2.40E+00*	0.451309471	0.548178678	0.000511852
	Antimony	1.15264161	0					0.091479493	0.148650889	0.017234736	0.014235124	0	3.15E-02	1.16E-01	9.58E-02	0.00E+00	*2.12E-01*	0.547658498	0.452341502	0
X	Arsenic	59.81352478	0.01975					0.688568829	0.149840096	0.129726367	0.376735486	0.004345	5.11E-01	8.66E-01	2.51E+00	2.90E-02	*3.41E+00*	0.253963639	0.73753021	0.008506151
	Barium	30.86929478	0.03575					1.763959702	11.83503851	0.332330008	0.381235791	0.007865	7.21E-01	2.81E-02	3.22E-02	6.65E-04	*6.10E-02*	0.460654034	0.528444019	0.010901947
	Beryllium	0.311679356	0.000043					0.024736457	1.450568131	0.004660348	0.00384924	0.00000946	8.52E-03	3.21E-03	2.65E-03	6.52E-06	*5.87E-03*	0.547050349	0.451839198	0.001110453
	Cadmium	0.68221942	0.00023					0.969901473	2.120009672	0.182729437	0.00842541	0.0000506	1.91E-01	8.62E-02	3.97E-03	2.39E-05	*9.02E-02*	0.955670668	0.044064696	0.000264637
	Chromium	137.9172719	0.0121					1.363922206	19.78047452	0.256962944	1.703278307	0.002662	1.96E+00	1.30E-02	8.61E-02	1.35E-04	*9.92E-02*	0.130909633	0.867734213	0.001356154
	Cobalt	6.568375071	0.0019					0.521299609	10.99	0.098212846	0.081119432	0.000418	1.80E-01	8.94E-03	7.38E-03	3.80E-05	*1.64E-02*	0.546384947	0.451289605	0.002325448
	Copper	50.38739692	0.01375					2.385149925	33.43	0.449362246	0.622284352	0.003025	1.07E+00	1.34E-02	1.86E-02	9.05E-05	*3.21E-02*	0.418139129	0.579046058	0.002814813
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	11469.05216	1.935					691.7840985	7.01	130.3321242	141.6427942	0.4257	2.72E+02	1.86E+01	2.02E+01	6.07E-02	*3.89E+01*	0.47845752	0.519979709	0.001562772
	Lead	61.8482959	0.0077					3.561104548	17.58264402	0.670912097	0.763826454	0.001694	1.44E+00	3.82E-02	4.34E-02	9.63E-05	*8.17E-02*	0.467068291	0.531752399	0.001179311
	Manganese	225.9303616	0.7775					2.849219297	193.41	0.536792915	2.790239966	0.17105	3.50E+00	2.78E-03	1.44E-02	8.84E-04	*1.81E-02*	0.153453458	0.797648329	0.048898212
	Mercury	0.289304857	0.0001475					0.069189789	0.070330576	0.013035356	0.003572915	0.00003245	1.66E-02	1.85E-01	5.08E-02	4.61E-04	*2.37E-01*	0.783340821	0.214709143	0.001950036
	Nickel	10.23193237	0.0022					3.427451	87.91322008	0.645731768	0.126364365	0.000484	7.73E-01	7.35E-03	1.44E-03	5.51E-06	*8.79E-03*	0.835812029	0.163561499	0.000626472
	Selenium	0.979624953	0					0.145055509	0.4395661	0.027328458	0.012098368	0	3.94E-02	6.22E-02	2.75E-02	0.00E+00	*8.97E-02*	0.693143745	0.306856255	0
	Silver	0.12087053	0					0.009592899	398.246887	0.001807302	0.001492751	0	3.30E-03	4.54E-06	3.75E-06	0.00E+00	*8.29E-06*	0.547658498	0.452341502	0
	Thallium	1.645281718	0					0.130577914	0.164354697	0.024600879	0.020319229	0	4.49E-02	1.50E-01	1.24E-01	0.00E+00	*2.73E-01*	0.547658498	0.452341502	0
X	Vanadium	25.88937141	0.00165					2.054712017	0.428489138	0.387107744	0.319733737	0.000363	7.07E-01	9.03E-01	7.46E-01	8.47E-04	*1.65E+00*	0.547377391	0.45210932	0.000513289
	Zinc	165.9708389	0.09175					72.61159882	351.6528803	13.68002522	2.04973986	0.020185	1.57E+01	3.89E-02	5.83E-03	5.74E-05	*4.48E-02*	0.868575783	0.130142626	0.001281591

Table E.1-85. Maximun Exposure Calculations for Shrew - Station CB-06

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.004					0	6844.044183	0	0	0.00088	8.80E-04	0.00E+00	0.00E+00	1.29E-07	*1.29E-07*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0.002					0	8.324449805	0	0	0.00044	4.40E-04	0.00E+00	0.00E+00	5.29E-05	*5.29E-05*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0					0	166.49	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Inorganics																			
X	Aluminum	8560.634726	0.3255					462.002509	58.27114864	87.04127269	105.7238389	0.07161	1.93E+02	1.49E+00	1.81E+00	1.23E-03	*3.31E+00*	0.451372913	0.548255737	0.00037135
	Antimony	4.718219842	0					0.374461892	0.148650889	0.07054862	0.058270015	0	1.29E-01	4.75E-01	3.92E-01	0.00E+00	*8.67E-01*	0.547658498	0.452341502	0
X	Arsenic	139.7904355	0.01975					1.253816751	0.149840096	0.236219076	0.880470058	0.004345	1.12E+00	1.58E+00	5.88E+00	2.90E-02	*7.48E+00*	0.210715329	0.785408786	0.003875886
	Barium	51.070215	0.03575					2.918298	11.83503851	0.549807343	0.630717155	0.007865	1.19E+00	4.65E-02	5.33E-02	6.65E-04	*1.00E-01*	0.46264911	0.53073269	0.006618201
	Beryllium	0.384270937	0.000043					0.030497693	1.450568131	0.005745765	0.004745746	0.00000946	1.05E-02	3.96E-03	3.27E-03	6.52E-06	*7.24E-03*	0.54716513	0.451934001	0.000900869
X	Cadmium	17.15540459	0.00023					12.59234844	2.120009672	2.372398446	0.211869247	0.0000506	2.58E+00	1.12E+00	9.99E-02	2.39E-05	*1.22E+00*	0.917997776	0.081982644	1.95796E-05
	Chromium	497.1268823	0.0121					1.251643779	19.78047452	0.235809688	6.139516997	0.002662	6.38E+00	1.19E-02	3.10E-01	1.35E-04	*3.22E-01*	0.036972422	0.962610205	0.000417373
	Cobalt	13.8240634	0.0019					1.097147889	10.99	0.206702662	0.170727183	0.000418	3.78E-01	1.88E-02	1.55E-02	3.80E-05	*3.44E-02*	0.547052643	0.451841092	0.001106265
	Copper	236.0352094	0.01375					3.585655542	33.43	0.675537504	2.915034836	0.003025	3.59E+00	2.02E-02	8.72E-02	9.05E-05	*1.07E-01*	0.187983639	0.811174586	0.000841775
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	16257.75803	1.935					980.6266746	7.01	184.7500655	200.7833116	0.4257	3.86E+02	2.64E+01	2.86E+01	6.07E-02	*5.50E+01*	0.478677861	0.520219172	0.001102967
	Lead	189.3456346	0.0077					8.784726802	17.58264402	1.65504253	2.338418588	0.001694	4.00E+00	9.41E-02	1.33E-01	9.63E-05	*2.27E-01*	0.414262396	0.585313591	0.000424014
	Manganese	93.68565211	0.7775					1.563134137	193.41	0.294494471	1.157017804	0.17105	1.62E+00	1.52E-03	5.98E-03	8.84E-04	*8.39E-03*	0.181499642	0.713080676	0.105419683
	Mercury	0.339326128	0.0001475					0.070504181	0.070330576	0.013282988	0.004190678	0.00003245	1.75E-02	1.89E-01	5.96E-02	4.61E-04	*2.49E-01*	0.758762718	0.239383644	0.001853638
	Nickel	27.52195952	0.0022					2.649986224	87.91322008	0.499257405	0.3398962	0.000484	8.40E-01	5.68E-03	3.87E-03	5.51E-06	*9.55E-03*	0.594610582	0.404812979	0.000576439
	Selenium	1.967771516	0					0.241863757	0.4395661	0.045567132	0.024301978	0	6.99E-02	1.04E-01	5.53E-02	0.00E+00	*1.59E-01*	0.652178507	0.347821493	0
	Silver	0.16550588	0					0.013135387	398.246887	0.002474707	0.002043998	0	4.52E-03	6.21E-06	5.13E-06	0.00E+00	*1.13E-05*	0.547658498	0.452341502	0
	Thallium	4.132782751	0					0.327998631	0.164354697	0.061794942	0.051039867	0	1.13E-01	3.76E-01	3.11E-01	0.00E+00	*6.87E-01*	0.547658498	0.452341502	0
X	Vanadium	72.26002919	0.00165					5.734922951	0.428489138	1.080459484	0.89241136	0.000363	1.97E+00	2.52E+00	2.08E+00	8.47E-04	*4.61E+00*	0.54755775	0.452258288	0.000183962
	Zinc	2075.988962	0.09175					166.2973704	351.6528803	31.33042459	25.63846368	0.020185	5.70E+01	8.91E-02	7.29E-02	5.74E-05	*1.62E-01*	0.54976196	0.44988385	0.000354191

Table E.1-86. Maximun Exposure Calculations for Shrew - Station DA

	Maximum Concentrations Compound	C Soil (mg/Kg)	C Water (mg/L)					C Prey (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.004					0	6844.044183	0	0	0.00088	8.80E-04	0.00E+00	0.00E+00	1.29E-07	*1.29E-07*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0.002					0	8.324449805	0	0	0.00044	4.40E-04	0.00E+00	0.00E+00	5.29E-05	*5.29E-05*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0					0	166.49	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Inorganics																			
X	Aluminum	9392.030187	0.3255					506.8714704	58.27114864	95.49458503	115.9915728	0.07161	2.12E+02	1.64E+00	1.99E+00	1.23E-03	*3.63E+00*	0.451387751	0.54827376	0.000338489
	Antimony	1.072153455	0					0.085091544	0.148650889	0.016031247	0.013241095	0	2.93E-02	1.08E-01	8.91E-02	0.00E+00	*1.97E-01*	0.547658498	0.452341502	0
X	Arsenic	195.1917703	0.01975					1.587058014	0.149840096	0.29900173	1.229415366	0.004345	1.53E+00	2.00E+00	8.20E+00	2.90E-02	*1.02E+01*	0.195073802	0.802091446	0.002834752
	Barium	65.96667038	0.03575					3.769524022	11.83503851	0.710178326	0.814688379	0.007865	1.53E+00	6.00E-02	6.88E-02	6.65E-04	*1.30E-01*	0.463341577	0.531527062	0.005131361
	Beryllium	0.529328866	0.000043					0.042010227	1.450568131	0.007914727	0.006537211	0.00000946	1.45E-02	5.46E-03	4.51E-03	6.52E-06	*9.97E-03*	0.547300245	0.4520456	0.000654155
	Cadmium	4.6	0.00023					4.422322865	2.120009672	0.833165628	0.05681	0.0000506	8.90E-01	3.93E-01	2.68E-02	2.39E-05	*4.20E-01*	0.936113568	0.06382958	5.68523E-05
	Chromium	391.1037027	0.0121					1.271922036	19.78047452	0.239630112	4.830130728	0.002662	5.07E+00	1.21E-02	2.44E-01	1.35E-04	*2.56E-01*	0.047241746	0.952233455	0.000524799
	Cobalt	25.7	0.0019					2.03968254	10.99	0.38427619	0.317395	0.000418	7.02E-01	3.50E-02	2.89E-02	3.80E-05	*6.39E-02*	0.547332441	0.452072193	0.000595366
	Copper	248.567987	0.01375					3.634964929	33.43	0.684827393	3.069814639	0.003025	3.76E+00	2.05E-02	9.18E-02	9.05E-05	*1.12E-01*	0.182248024	0.816946955	0.000805021
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	33506.5523	1.935					2021.030138	7.01	380.7620781	413.8059209	0.4257	7.95E+02	5.43E+01	5.90E+01	6.07E-02	*1.13E+02*	0.478949806	0.520514718	0.000535476
	Lead	213.5880944	0.0077					9.681706368	17.58264402	1.82403348	2.637812966	0.001694	4.46E+00	1.04E-01	1.50E-01	9.63E-05	*2.54E-01*	0.40865172	0.590968761	0.000379519
	Manganese	2850	0.7775					16.05163916	193.41	3.024128818	35.1975	0.17105	3.84E+01	1.56E-02	1.82E-01	8.84E-04	*1.99E-01*	0.078768372	0.916776351	0.004455277
	Mercury	3.4	0.0001475					0.092537239	0.070330576	0.017434016	0.04199	0.00003245	5.95E-02	2.48E-01	5.97E-01	4.61E-04	*8.45E-01*	0.293223212	0.70623101	0.000545777
	Nickel	17.26166693	0.0022					2.991704789	87.91322008	0.563637182	0.213181587	0.000484	7.77E-01	6.41E-03	2.42E-03	5.51E-06	*8.84E-03*	0.725119226	0.274258108	0.000622666
	Selenium	1.676503517	0					0.215068021	0.4395661	0.040518815	0.020704818	0	6.12E-02	9.22E-02	4.71E-02	0.00E+00	*1.39E-01*	0.661816569	0.338183431	0
	Silver	0.217615429	0					0.017271066	398.246887	0.003253869	0.002687551	0	5.94E-03	8.17E-06	6.75E-06	0.00E+00	*1.49E-05*	0.547658498	0.452341502	0
	Thallium	3.338972929	0					0.264997851	0.164354697	0.049925595	0.041236316	0	9.12E-02	3.04E-01	2.51E-01	0.00E+00	*5.55E-01*	0.547658498	0.452341502	0
X	Vanadium	37.91699439	0.00165					3.009285269	0.428489138	0.566949345	0.468274881	0.000363	1.04E+00	1.32E+00	1.09E+00	8.47E-04	*2.42E+00*	0.54746653	0.452182944	0.000350526
	Zinc	592.8533729	0.09175					110.2458585	351.6528803	20.77031973	7.321739155	0.020185	2.81E+01	5.91E-02	2.08E-02	5.74E-05	*7.99E-02*	0.738835356	0.260446629	0.000718015

Table E.1-87. Maximun Exposure Calculations for Shrew - Station NRSE

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.000751254					0	6844.044183	0	0	0.000165276	1.65E-04	0.00E+00	0.00E+00	2.41E-08	*2.41E-08*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0					0	8.324449805	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0.003118404					0	166.49	0	0	0.000686049	6.86E-04	0.00E+00	0.00E+00	4.12E-06	*4.12E-06*	0	0	1
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0.0000021					0	5.45	0	0	0.000000462	4.62E-07	0.00E+00	0.00E+00	8.48E-08	*8.48E-08*	0	0	1
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0.0000014					0	5.45	0	0	0.000000308	3.08E-07	0.00E+00	0.00E+00	5.65E-08	*5.65E-08*	0	0	1
	Inorganics																			
X	Aluminum	8497.905308	2.18					458.6171118	58.27114864	86.40346387	104.9491305	0.4796	1.92E+02	1.48E+00	1.80E+00	8.23E-03	*3.29E+00*	0.450411695	0.547088203	0.002500102
	Antimony	1.018849629	0.000954619					0.080861082	0.148650889	0.015234228	0.012582793	0.000210016	2.80E-02	1.02E-01	8.46E-02	1.41E-03	*1.89E-01*	0.543554705	0.448951952	0.007493343
X	Arsenic	214.2984408	0.046325726					1.695221309	0.149840096	0.319379695	1.349758729	0.01019166	1.68E+00	2.13E+00	9.01E+00	6.80E-02	*1.12E+01*	0.190182798	0.803748317	0.006068884
	Barium	56.08302119	0.043463732					3.204744068	11.83503851	0.603773782	0.692625312	0.009562021	1.31E+00	5.10E-02	5.85E-02	8.08E-04	*1.10E-01*	0.462321409	0.530356765	0.007321827
	Beryllium	0.74927575	0.000150512					0.059466329	1.450568131	0.011203456	0.009253556	3.31127E-05	2.05E-02	7.72E-03	6.38E-03	2.28E-05	*1.41E-02*	0.546773465	0.451610504	0.001616031
	Cadmium	2.195450365	0.0025					2.456231254	2.120009672	0.462753968	0.027113812	0.00055	4.90E-01	2.18E-01	1.28E-02	2.59E-04	*2.31E-01*	0.943591336	0.055287172	0.001121493
	Chromium	250.7790993	0.058863979					1.310362726	19.78047452	0.246872338	3.097121876	0.012950075	3.36E+00	1.25E-02	1.57E-01	6.55E-04	*1.70E-01*	0.073540791	0.922601512	0.003857697
	Cobalt	8.010347293	0.003906503					0.635741849	10.99	0.119773764	0.098927789	0.000859431	2.20E-01	1.09E-02	9.00E-03	7.82E-05	*2.00E-02*	0.545514791	0.450570895	0.003914314
	Copper	303.8210614	0.071238205					3.832779303	33.43	0.722095621	3.752190108	0.015672405	4.49E+00	2.16E-02	1.12E-01	4.69E-04	*1.34E-01*	0.160824578	0.835684876	0.003490546
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	24290.88309	6.849223396					1465.164377	7.01	276.0369686	299.9924062	1.506829147	5.78E+02	3.94E+01	4.28E+01	2.15E-01	*8.24E+01*	0.477956129	0.519434806	0.002609064
	Lead	223.9132277	0.0759					10.05767489	17.58264402	1.894865949	2.765328362	0.016698	4.68E+00	1.08E-01	1.57E-01	9.50E-04	*2.66E-01*	0.405154924	0.591274756	0.00357032
	Manganese	247.7890443	0.579167241					3.034444467	193.41	0.571689338	3.060194697	0.127416793	3.76E+00	2.96E-03	1.58E-02	6.59E-04	*1.94E-02*	0.152073315	0.814032938	0.033893747
X	Mercury	4.4975748	0.00060956					0.095643063	0.070330576	0.018019153	0.055545049	0.000134103	7.37E-02	2.56E-01	7.90E-01	1.91E-03	*1.05E+00*	0.244498881	0.753681495	0.001819623
	Nickel	14.04764071	0.003939512					3.156336992	87.91322008	0.594653889	0.173488363	0.000866693	7.69E-01	6.76E-03	1.97E-03	9.86E-06	*8.75E-03*	0.773273046	0.225599928	0.001127025
	Selenium	2.362854775	0.000910899					0.27657741	0.4395661	0.052107184	0.029181256	0.000200398	8.15E-02	1.19E-01	6.64E-02	4.56E-04	*1.85E-01*	0.639439524	0.35810127	0.002459206
	Silver	2.24224359	0.000312716					0.17795584	398.246887	0.03352688	0.027691708	6.87975E-05	6.13E-02	8.42E-05	6.95E-05	1.73E-07	*1.54E-04*	0.54704373	0.451833731	0.001122539
	Thallium	1.02292501	0.000814409					0.081184525	0.164354697	0.015295164	0.012633124	0.00017917	2.81E-02	9.31E-02	7.69E-02	1.09E-03	*1.71E-01*	0.544167469	0.449458067	0.006374464
X	Vanadium	30.64261244	0.006095546					2.431953369	0.428489138	0.458180015	0.378436264	0.00134102	8.38E-01	1.07E+00	8.83E-01	3.13E-03	*1.96E+00*	0.546782056	0.4516176	0.001600344
	Zinc	485.2818221	0.626					103.2384822	351.6528803	19.45013004	5.993230503	0.13772	2.56E+01	5.53E-02	1.70E-02	3.92E-04	*7.27E-02*	0.760332622	0.234283712	0.005383666

Table E.1-88. Maximun Exposure Calculations for Shrew - Station JY

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.000751254					0	6844.044183	0	0	0.000165276	0.00E+00	0.00E+00	0.00E+00	2.41E-08	*2.41E-08*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0					0	8.324449805	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0.003118404					0	166.49	0	0	0.000686049	0.00E+00	0.00E+00	0.00E+00	4.12E-06	*4.12E-06*	0	0	1
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0.0000021					0	5.45	0	0	0.000000462	0.00E+00	0.00E+00	0.00E+00	8.48E-08	*8.48E-08*	0	0	1
	Aroclor 1248	0.143575715	0					0.312524202	1.55	0.05887956	0.00177316	0	6.07E-02	3.81E-02	1.15E-03	0.00E+00	*3.92E-02*	0.970765366	0.029234634	0
X	Aroclor 1254	1.366005812	0					3.008535998	0.08	0.566808182	0.016870172	0	5.84E-01	7.01E+00	2.09E-01	0.00E+00	*7.22E+00*	0.971096801	0.028903199	0
	Aroclor 1260	1.471641452	0					3.279477664	0.76	0.617853592	0.018174772	0	6.36E-01	8.15E-01	2.40E-02	0.00E+00	*8.39E-01*	0.971424589	0.028575411	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0.0000014					0	5.45	0	0	0.000000308	0.00E+00	0.00E+00	0.00E+00	5.65E-08	*5.65E-08*	0	0	1
	Inorganics																			
X	Aluminum	12295.11157	2.18					663.5457038	58.27114864	125.0120106	151.8446279	0.4796	2.77E+02	2.15E+00	2.61E+00	8.23E-03	*4.76E+00*	0.450759739	0.547510952	0.001729309
X	Antimony	19.5	0.000954619					1.547619048	0.148650889	0.291571429	0.240825	0.000210016	5.33E-01	1.96E+00	1.62E+00	1.41E-03	*3.58E+00*	0.547442547	0.452163135	0.000394318
X	Arsenic	282.3247183	0.046325726					2.059471119	0.149840096	0.388004359	1.778222238	0.01019166	2.18E+00	2.59E+00	1.19E+01	6.80E-02	*1.45E+01*	0.178276559	0.817040673	0.004682767
	Barium	181.9454499	0.043463732					10.39688285	11.83503851	1.95877273	2.247026307	0.009562021	4.22E+00	1.66E-01	1.90E-01	8.08E-04	*3.56E-01*	0.46467496	0.533056665	0.002268375
	Beryllium	0.655152625	0.000150512					0.05199624	1.450568131	0.009796092	0.008091135	3.31127E-05	1.79E-02	6.75E-03	5.58E-03	2.28E-05	*1.24E-02*	0.546646551	0.451505678	0.001847771
X	Cadmium	14.53709307	0.0025					11.03894666	2.120009672	2.07973755	0.179533099	0.00055	2.26E+00	9.81E-01	8.47E-02	2.59E-04	*1.07E+00*	0.920310889	0.079445729	0.000243382
	Chromium	1170.228904	0.058863979					1.181870537	19.78047452	0.222664409	14.45232697	0.012950075	1.47E+01	1.13E-02	7.31E-01	6.55E-04	*7.43E-01*	0.015159674	0.983958645	0.000881681
	Cobalt	16.62705381	0.003906503					1.319607446	10.99	0.248614043	0.205344115	0.000859431	4.55E-01	2.26E-02	1.87E-02	7.82E-05	*4.14E-02*	0.546623634	0.45148675	0.001889616
	Copper	501.8800457	0.071238205					4.375836373	33.43	0.824407573	6.198218565	0.015672405	7.04E+00	2.47E-02	1.85E-01	4.69E-04	*2.11E-01*	0.117131657	0.880641611	0.002226732
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	38229.19118	6.849223396					2305.887722	7.01	434.4292468	472.1305111	1.506829147	9.08E+02	6.20E+01	6.73E+01	2.15E-01	*1.30E+02*	0.478411223	0.519929395	0.001659382
	Lead	729.1526388	0.0759					26.07820656	17.58264402	4.913134116	9.00503509	0.016698	1.39E+01	2.79E-01	5.12E-01	9.50E-04	*7.93E-01*	0.352578467	0.646223244	0.001198289
	Manganese	365.2369469	0.579167241					3.953585616	193.41	0.74485553	4.510676294	0.127416793	5.38E+00	3.85E-03	2.33E-02	6.59E-04	*2.78E-02*	0.138373145	0.837956409	0.023670446
	Mercury	1.814930811	0.00060956					0.085930535	0.070330576	0.016189313	0.022414396	0.000134103	3.87E-02	2.30E-01	3.19E-01	1.91E-03	*5.51E-01*	0.417920172	0.578618013	0.003461815
	Nickel	75.32929506	0.003939512					2.039621748	87.91322008	0.384264737	0.930316794	0.000866693	1.32E+00	4.37E-03	1.06E-02	9.86E-06	*1.50E-02*	0.292116961	0.707224182	0.000658857
	Selenium	5.1	0.000910899					0.486111951	0.4395661	0.091583492	0.062985	0.000200398	1.55E-01	2.08E-01	1.43E-01	4.56E-04	*3.52E-01*	0.591743547	0.406961633	0.00129482
	Silver	1.042251471	0.000312716					0.082718371	398.246887	0.015584141	0.012871806	6.87975E-05	2.85E-02	3.91E-05	3.23E-05	1.73E-07	*7.16E-05*	0.546337627	0.451250521	0.002411853
	Thallium	4.036980396	0.000814409					0.32039527	0.164354697	0.060362469	0.049856708	0.00017917	1.10E-01	3.67E-01	3.03E-01	1.09E-03	*6.72E-01*	0.546769681	0.451607378	0.001622941
X	Vanadium	64.24470786	0.006095546					5.098786338	0.428489138	0.960611346	0.793422142	0.00134102	1.76E+00	2.24E+00	1.85E+00	3.13E-03	*4.10E+00*	0.547240114	0.451995935	0.000763951
	Zinc	2351.399389	0.626					173.2330007	351.6528803	32.63709734	29.03978245	0.13772	6.18E+01	9.28E-02	8.26E-02	3.92E-04	*1.76E-01*	0.527983639	0.469788408	0.002227953

Table E.1-89. Maximun Exposure Calculations for Shrew - Station NRSO

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.000751254					0	6844.044183	0	0	0.000165276	1.65E-04	0.00E+00	0.00E+00	2.41E-08	*2.41E-08*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0					0	8.324449805	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0.003118404					0	166.49	0	0	0.000686049	6.86E-04	0.00E+00	0.00E+00	4.12E-06	*4.12E-06*	0	0	1
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0.0000021					0	5.45	0	0	0.000000462	4.62E-07	0.00E+00	0.00E+00	8.48E-08	*8.48E-08*	0	0	1
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0.0000014					0	5.45	0	0	0.000000308	3.08E-07	0.00E+00	0.00E+00	5.65E-08	*5.65E-08*	0	0	1
	Inorganics																			
X	Aluminum	6701.190468	2.18					361.651549	58.27114864	68.13515184	82.75970227	0.4796	1.51E+02	1.17E+00	1.42E+00	8.23E-03	*2.60E+00*	0.450109976	0.546721722	0.003168302
	Antimony	0.960320184	0.000954619					0.076215888	0.148650889	0.014359073	0.011859954	0.000210016	2.64E-02	9.66E-02	7.98E-02	1.41E-03	*1.78E-01*	0.543306576	0.448747008	0.007946417
X	Arsenic	200.5704324	0.046325726					1.617809645	0.149840096	0.304795337	1.263292869	0.01019166	1.58E+00	2.03E+00	8.43E+00	6.80E-02	*1.05E+01*	0.193118688	0.800423864	0.006457448
	Barium	59.70950409	0.043463732					3.411971662	11.83503851	0.642815461	0.737412376	0.009562021	1.39E+00	5.43E-02	6.23E-02	8.08E-04	*1.17E-01*	0.462527092	0.530592716	0.006880192
	Beryllium	0.466915969	0.000150512					0.037056823	1.450568131	0.006981505	0.005766412	3.31127E-05	1.28E-02	4.81E-03	3.98E-03	2.28E-05	*8.81E-03*	0.546239642	0.45116959	0.002590768
	Cadmium	2.1304011	0.0025					2.398196518	2.120009672	0.451820224	0.026310454	0.00055	4.79E-01	2.13E-01	1.24E-02	2.59E-04	*2.26E-01*	0.943886489	0.05496452	0.001148991
	Chromium	171.9424863	0.058863979					1.343919872	19.78047452	0.253194504	2.123489706	0.012950075	2.39E+00	1.28E-02	1.07E-01	6.55E-04	*1.21E-01*	0.105955336	0.888625393	0.005419271
	Cobalt	9.847463144	0.003906503					0.781544694	10.99	0.14724302	0.12161617	0.000859431	2.70E-01	1.34E-02	1.11E-02	7.82E-05	*2.45E-02*	0.545913441	0.450900162	0.003186397
	Copper	171.4491063	0.071238205					3.295447472	33.43	0.620862304	2.117396463	0.015672405	2.75E+00	1.86E-02	6.33E-02	4.69E-04	*8.24E-02*	0.225445832	0.768863247	0.005690921
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	28574.98568	6.849223396					1723.570565	7.01	324.7206944	352.9010731	1.506829147	6.79E+02	4.63E+01	5.03E+01	2.15E-01	*9.69E+01*	0.478143162	0.51963807	0.002218769
	Lead	144.4307715	0.0759					7.060389158	17.58264402	1.330177317	1.783720029	0.016698	3.13E+00	7.57E-02	1.01E-01	9.50E-04	*1.78E-01*	0.424895961	0.569770229	0.00533381
	Manganese	830	0.579167241					6.920324455	193.41	1.303789127	10.2505	0.127416793	1.17E+01	6.74E-03	5.30E-02	6.59E-04	*6.04E-02*	0.11160948	0.877483141	0.010907379
	Mercury	1.970886361	0.00060956					0.086770499	0.070330576	0.016347562	0.024340447	0.000134103	4.08E-02	2.32E-01	3.46E-01	1.91E-03	*5.80E-01*	0.400458509	0.596256429	0.003285062
	Nickel	12.97826052	0.003939512					3.221988307	87.91322008	0.607022597	0.160281517	0.000866693	7.68E-01	6.90E-03	1.82E-03	9.86E-06	*8.74E-03*	0.790218258	0.208653487	0.001128255
	Selenium	1.749979979	0.000910899					0.22193746	0.4395661	0.041813017	0.021612253	0.000200398	6.36E-02	9.51E-02	4.92E-02	4.56E-04	*1.45E-01*	0.657172156	0.339678206	0.003149638
	Silver	2.006534653	0.000312716					0.159248782	398.246887	0.030002471	0.024780703	6.87975E-05	5.49E-02	7.53E-05	6.22E-05	1.73E-07	*1.38E-04*	0.546971604	0.451774157	0.001254239
	Thallium	0.958383005	0.000814409					0.076062143	0.164354697	0.014330108	0.01183603	0.00017917	2.63E-02	8.72E-02	7.20E-02	1.09E-03	*1.60E-01*	0.543933965	0.449265203	0.006800831
X	Vanadium	25.16000618	0.006095546					1.996825888	0.428489138	0.376201997	0.310726076	0.00134102	6.88E-01	8.78E-01	7.25E-01	3.13E-03	*1.61E+00*	0.546591443	0.451460162	0.001948395
	Zinc	525.3011368	0.626					105.9569642	351.6528803	19.96229205	6.48746904	0.13772	2.66E+01	5.68E-02	1.84E-02	3.92E-04	*7.56E-02*	0.750815468	0.244004651	0.005179881

Table E.1-90. Maximun Exposure Calculations for Shrew - Station KFSO

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.004					0	6844.044183	0	0	0.00088	8.80E-04	0.00E+00	0.00E+00	1.29E-07	*1.29E-07*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0.002					0	8.324449805	0	0	0.00044	4.40E-04	0.00E+00	0.00E+00	5.29E-05	*5.29E-05*	0	0	1
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0					0	166.49	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0					0	5.45	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Inorganics																			
X	Aluminum	6302.355836	0.3255					340.1271404	58.27114864	64.07995324	77.83409458	0.07161	1.42E+02	1.10E+00	1.34E+00	1.23E-03	*2.44E+00*	0.45131286	0.548182794	0.000504347
	Antimony	0.87900063	0					0.069761955	0.148650889	0.013143152	0.010855658	0	2.40E-02	8.84E-02	7.30E-02	0.00E+00	*1.61E-01*	0.547658498	0.452341502	0
X	Arsenic	46.05317511	0.01975					0.572516817	0.149840096	0.107862168	0.290065923	0.004345	4.02E-01	7.20E-01	1.94E+00	2.90E-02	*2.68E+00*	0.268131701	0.721067179	0.01080112
	Barium	60.79309621	0.03575					3.473891212	11.83503851	0.654481104	0.750794738	0.007865	1.41E+00	5.53E-02	6.34E-02	6.65E-04	*1.19E-01*	0.463139331	0.531295053	0.005565617
	Beryllium	0.413008266	0.000043					0.032778434	1.450568131	0.006175457	0.005100652	0.00000946	1.13E-02	4.26E-03	3.52E-03	6.52E-06	*7.78E-03*	0.54719943	0.451962332	0.000838239
	Cadmium	1.399090418	0.00023					1.71674334	2.120009672	0.323434445	0.017278767	0.0000506	3.41E-01	1.53E-01	8.15E-03	2.39E-05	*1.61E-01*	0.949145519	0.050705991	0.00014849
	Chromium	120.0135984	0.0121					1.376688262	19.78047452	0.259368069	1.482167941	0.002662	1.74E+00	1.31E-02	7.49E-02	1.35E-04	*8.82E-02*	0.148703339	0.849770458	0.001526203
	Cobalt	10.39140701	0.0019					0.824714842	10.99	0.155376276	0.128333877	0.000418	2.84E-01	1.41E-02	1.17E-02	3.80E-05	*2.59E-02*	0.546852801	0.451676032	0.001471167
	Copper	107.7310311	0.01375					2.915014169	33.43	0.549188669	1.330478234	0.003025	1.88E+00	1.64E-02	3.98E-02	9.05E-05	*5.63E-02*	0.291703952	0.706689306	0.001606742
	Cyanide	0	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	17014.50719	1.935					1026.271862	7.01	193.3496188	210.1291637	0.4257	4.04E+02	2.76E+01	3.00E+01	6.07E-02	*5.76E+01*	0.478701344	0.520244694	0.001053962
	Lead	192.3578295	0.0077					8.897334095	17.58264402	1.676257744	2.375619194	0.001694	4.05E+00	9.53E-02	1.35E-01	9.63E-05	*2.31E-01*	0.413526189	0.586055907	0.000417903
	Manganese	815.5712761	0.7775					6.83804931	193.41	1.28828849	10.07230526	0.17105	1.15E+01	6.66E-03	5.21E-02	8.84E-04	*5.96E-02*	0.11171768	0.873449222	0.014833098
	Mercury	0.692246621	0.0001475					0.076692485	0.070330576	0.014448864	0.008549246	0.00003245	2.30E-02	2.05E-01	1.22E-01	4.61E-04	*3.27E-01*	0.627377892	0.371213111	0.001408997
	Nickel	14.1865754	0.0022					3.14827078	87.91322008	0.593134215	0.175204206	0.000484	7.69E-01	6.75E-03	1.99E-03	5.51E-06	*8.75E-03*	0.771484024	0.227886442	0.000629534
	Selenium	0.506986177	0					0.089505459	0.4395661	0.016862828	0.006261279	0	2.31E-02	3.84E-02	1.42E-02	0.00E+00	*5.26E-02*	0.729231529	0.270768471	0
	Silver	0.701292731	0					0.055658153	398.246887	0.010485996	0.008660965	0	1.91E-02	2.63E-05	2.17E-05	0.00E+00	*4.81E-05*	0.547658498	0.452341502	0
	Thallium	0.89027594	0					0.070656821	0.164354697	0.013311745	0.010994908	0	2.43E-02	8.10E-02	6.69E-02	0.00E+00	*1.48E-01*	0.547658498	0.452341502	0
X	Vanadium	28.79467582	0.00165					2.285291732	0.428489138	0.430548962	0.355614246	0.000363	7.87E-01	1.00E+00	8.30E-01	8.47E-04	*1.84E+00*	0.547405741	0.452132736	0.000461523
	Zinc	392.6366915	0.09175					96.30849152	351.6528803	18.1445198	4.84906314	0.020185	2.30E+01	5.16E-02	1.38E-02	5.74E-05	*6.54E-02*	0.788420212	0.210702704	0.000877084

Table E.1-91. Maximun Exposure Calculations for Shrew - Station WSS

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0.0000	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0.0000	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0.0000	0.000751254					0	6844.044183	0	0	0.000165276	1.65E-04	0.00E+00	0.00E+00	2.41E-08	*2.41E-08*	0	0	1
	Tetrachloroethene	0.0000	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0.0000	0					0	8.324449805	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Semivolatile Organics																			
	2-Methylnaphthalene	0.0000	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0.0000	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0.0000	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0.0000	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0.0000	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0.0000	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0.0000	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0.0000	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0.0000	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0.0000	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0.0000	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0.0000	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0.0000	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0.0000	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0.0000	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0.0000	0.003118404					0	166.49	0	0	0.000686049	6.86E-04	0.00E+00	0.00E+00	4.12E-06	*4.12E-06*	0	0	1
	N-nitrosodiphenylamine	0.0000	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0.0000	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0.0000	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0.0000	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0.0000	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0.0000	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0.0000	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0.0000	0.0000021					0	5.45	0	0	0.000000462	4.62E-07	0.00E+00	0.00E+00	8.48E-08	*8.48E-08*	0	0	1
	Aroclor 1248	0.0000	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0.0000	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0.0000	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0.0000	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0.0000	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0.0000	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0.0000	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0.0000	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0.0000	0.0000014					0	5.45	0	0	0.000000308	3.08E-07	0.00E+00	0.00E+00	5.65E-08	*5.65E-08*	0	0	1
	Inorganics																			
X	Aluminum	9201.4156	2.18					496.5843339	58.27114864	93.55648851	113.6374826	0.4796	2.08E+02	1.61E+00	1.95E+00	8.23E-03	*3.56E+00*	0.450497808	0.547192799	0.002309394
	Antimony	0.7600	0.000954619					0.06031746	0.148650889	0.01136381	0.009386	0.000210016	2.10E-02	7.64E-02	6.31E-02	1.41E-03	*1.41E-01*	0.542170993	0.447809067	0.01001994
	Arsenic	10.0063	0.046325726					0.194859084	0.149840096	0.036711451	0.063024796	0.01019166	1.10E-01	2.45E-01	4.21E-01	6.80E-02	*7.34E-01*	0.333959341	0.573328444	0.092712215
	Barium	39.8497	0.043463732					2.277126354	11.83503851	0.429010605	0.492143933	0.009562021	9.31E-01	3.62E-02	4.16E-02	8.08E-04	*7.86E-02*	0.460946569	0.528779604	0.010273827
	Beryllium	0.2998	0.000150512					0.023795436	1.450568131	0.00448306	0.003702808	3.31127E-05	8.22E-03	3.09E-03	2.55E-03	2.28E-05	*5.67E-03*	0.545452088	0.450519105	0.004028806
	Cadmium	0.3700	0.0025					0.596318592	2.120009672	0.112346423	0.0045695	0.00055	1.17E-01	5.30E-02	2.16E-03	2.59E-04	*5.54E-02*	0.956417147	0.038900644	0.004682209
	Chromium	18.4001	0.058863979					1.560993589	19.78047452	0.294091192	0.227241064	0.012950075	5.34E-01	1.49E-02	1.15E-02	6.55E-04	*2.70E-02*	0.550441546	0.425320192	0.024238263
	Cobalt	5.0097	0.003906503					0.397596048	10.99	0.074907095	0.061869921	0.000859431	1.38E-01	6.82E-03	5.63E-03	7.82E-05	*1.25E-02*	0.544238805	0.449516987	0.006244208
	Copper	33.8000	0.071238205					2.146528726	33.43	0.404406012	0.41743	0.015672405	8.38E-01	1.21E-02	1.25E-02	4.69E-04	*2.51E-02*	0.482867997	0.498418871	0.018713132
	Cyanide	0.0000	0					0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	10800.0000	6.849223396					651.4285714	7.01	122.7291429	133.38	1.506829147	2.58E+02	1.75E+01	1.90E+01	2.15E-01	*3.67E+01*	0.476403469	0.517747401	0.005849129
	Lead	81.9327	0.0759					4.468311135	17.58264402	0.841829818	1.011869288	0.016698	1.87E+00	4.79E-02	5.75E-02	9.50E-04	*1.06E-01*	0.450080796	0.540991688	0.008927516
	Manganese	189.2971	0.579167241					2.525384047	193.41	0.475782354	2.337819575	0.127416793	2.94E+00	2.46E-03	1.21E-02	6.59E-04	*1.52E-02*	0.161774677	0.79490129	0.043324033
	Mercury	0.1177	0.00060956					0.062221254	0.070330576	0.011722484	0.001453173	0.000134103	1.33E-02	1.67E-01	2.07E-02	1.91E-03	*1.89E-01*	0.880743468	0.109180982	0.01007555
	Nickel	9.4459	0.003939512					3.499422652	87.91322008	0.659291228	0.116657463	0.000866693	7.77E-01	7.50E-03	1.33E-03	9.86E-06	*8.84E-03*	0.848710314	0.150173986	0.0011157
	Selenium	0.7104	0.000910899					0.114611133	0.4395661	0.021592737	0.008773103	0.000200398	3.06E-02	4.91E-02	2.00E-02	4.56E-04	*6.95E-02*	0.706424427	0.28701939	0.006556183
	Silver	0.1011	0.000312716					0.008026337	398.246887	0.001512162	0.001248978	6.87975E-05	2.83E-03	3.80E-06	3.14E-06	1.73E-07	*7.11E-06*	0.534344591	0.441344808	0.024310602
	Thallium	1.1905	0.000814409					0.094481408	0.164354697	0.017800297	0.014702252	0.00017917	3.27E-02	1.08E-01	8.95E-02	1.09E-03	*1.99E-01*	0.544656087	0.449861644	0.00548227
X	Vanadium	23.7280	0.006095546					1.883172849	0.428489138	0.354789765	0.293040527	0.00134102	6.49E-01	8.28E-01	6.84E-01	3.13E-03	*1.52E+00*	0.546527177	0.451407081	0.002065741
	Zinc	71.8382	0.626					55.17219326	351.6528803	10.39444121	0.88720233	0.13772	1.14E+01	2.96E-02	2.52E-03	3.92E-04	*3.25E-02*	0.910246983	0.0776928	0.012060217

Table E.1-92. Maximun Exposure Calculations for Shrew - Station WG

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)	C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics															
	2-Butanone	0	0	0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0	0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0.082	0.000751254	0.032272287	6844.044183	0.006080099	0.0010127	0.000165276	7.26E-03	8.88E-07	1.48E-07	2.41E-08	*1.06E-06*	0.837701327	0.13952736	0.022771312
	Tetrachloroethene	0	0	0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0.042	0	0.017088942	8.324449805	0.003219557	0.0005187	0	3.74E-03	3.87E-04	6.23E-05	0.00E+00	*4.49E-04*	0.861245482	0.138754518	0
	Semivolatile Organics															
	2-Methylnaphthalene	0	0	0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0.001	0	0.000429127	158.52	8.08475E-05	0.00001235	0	9.32E-05	5.10E-07	7.79E-08	0.00E+00	*5.88E-07*	0.867485766	0.132514234	0
	Anthracene	0.018	0	0.007840042	1189.21	0.001477064	0.0002223	0	1.70E-03	1.24E-06	1.87E-07	0.00E+00	*1.43E-06*	0.869186348	0.130813652	0
	Benzo(a)anthracene	0.13	0	0.059252849	1.55	0.011163237	0.0016055	0	1.28E-02	7.22E-03	1.04E-03	0.00E+00	*8.26E-03*	0.874263208	0.125736792	0
	Benzo(a)pyrene	0.16	0	0.073990484	1.55	0.013939807	0.001976	0	1.59E-02	9.02E-03	1.28E-03	0.00E+00	*1.03E-02*	0.875846699	0.124153301	0
	Benzo(b)fluoranthene	0.29	0	0.137241003	1.55	0.025856205	0.0035815	0	2.94E-02	1.67E-02	2.32E-03	0.00E+00	*1.90E-02*	0.878336303	0.121663697	0
	Benzo(g,h,i)perylene	0.12	0	0.058275651	158.52	0.010979133	0.001482	0	1.25E-02	6.93E-05	9.35E-06	0.00E+00	*7.86E-05*	0.8810702	0.1189298	0
	Benzo(k)fluoranthene	0.2	0	0.095654604	1.55	0.018021327	0.00247	0	2.05E-02	1.17E-02	1.60E-03	0.00E+00	*1.33E-02*	0.879461201	0.120538799	0
	Carbazole	0	0	na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0.23	0	0.104831964	1.55	0.019750342	0.0028405	0	2.26E-02	1.28E-02	1.84E-03	0.00E+00	*1.46E-02*	0.874263208	0.125736792	0
	Dibenz(a,h)anthracene	0.046	0	0.021263939	1.55	0.004006126	0.0005681	0	4.57E-03	2.59E-03	3.67E-04	0.00E+00	*2.96E-03*	0.875804128	0.124195872	0
	Dibenzofuran	0	0	0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0.41	0	0.184837353	148.65	0.034823357	0.0050635	0	3.99E-02	2.34E-04	3.41E-05	0.00E+00	*2.68E-04*	0.873053423	0.126946577	0
	Fluorene	0.014	0	0.006033703	148.65	0.00113675	0.0001729	0	1.31E-03	7.65E-06	1.16E-06	0.00E+00	*8.81E-06*	0.867979957	0.132020043	0
	Indeno(1,2,3-cd)pyrene	0.14	0	0.069142316	1.55	0.013026412	0.001729	0	1.48E-02	8.43E-03	1.12E-03	0.00E+00	*9.54E-03*	0.882822657	0.117177343	0
	Naphthalene	0.012	0.003118404	0.005010339	166.49	0.000943948	0.0001482	0.000686049	1.78E-03	5.67E-06	8.90E-07	4.12E-06	*1.07E-05*	0.530845582	0.083342857	0.385811562
	N-nitrosodiphenylamine	0	0	0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0.16	0	0.069716547	158.52	0.013134597	0.001976	0	1.51E-02	8.29E-05	1.25E-05	0.00E+00	*9.53E-05*	0.869230849	0.130769151	0
	Pyrene	0.34	0	0.152382397	158.52	0.028708844	0.004199	0	3.29E-02	1.81E-04	2.65E-05	0.00E+00	*2.08E-04*	0.872401241	0.127598759	0
	Pesticides and PCBs															
	4,4'-DDD	0.009	0	0.004163594	18.68	0.000784421	0.00011115	0	8.96E-04	4.20E-05	5.95E-06	0.00E+00	*4.79E-05*	0.875889257	0.124110743	0
	4,4'-DDE	0.0032	0	0.001463106	2.26	0.000275649	0.00003952	0	3.15E-04	1.22E-04	1.75E-05	0.00E+00	*1.39E-04*	0.874607043	0.125392957	0
	4,4'-DDT	0	0	0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0	0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0.00098	0.0000021	0.000459264	5.45	8.65252E-05	0.000012103	0.000000462	9.91E-05	1.59E-05	2.22E-06	8.48E-08	*1.82E-05*	0.873196403	0.12214118	0.004662416
	Aroclor 1248	0.035	0	0.016325404	1.55	0.003075706	0.00043225	0	3.51E-03	1.99E-03	2.80E-04	0.00E+00	*2.27E-03*	0.876780098	0.123219902	0
	Aroclor 1254	0	0	0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0.011	0	0.005252772	0.76	0.000989622	0.00013585	0	1.13E-03	1.31E-03	1.79E-04	0.00E+00	*1.48E-03*	0.879295118	0.120704882	0
	beta-BHC	0	0	0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0	0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0.00044	0	0.000189038	3.30	3.56147E-05	0.000005434	0	4.10E-05	1.08E-05	1.65E-06	0.00E+00	*1.25E-05*	0.8676207	0.1323793	0
	Endosulfan Sulfate	0	0	0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0	0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0.00059	0.0000014	0.000276495	5.45	5.20917E-05	7.2865E-06	0.000000308	5.97E-05	9.56E-06	1.34E-06	5.65E-08	*1.10E-05*	0.8727596	0.122080081	0.005160319
	Inorganics															
X	Aluminum	16081.08067	2.18	867.867846	58.27114864	163.5063022	198.6013463	0.4796	3.63E+02	2.81E+00	3.41E+00	8.23E-03	*6.22E+00*	0.450943333	0.547733951	0.001322716
X	Antimony	9.171101022	0.000954619	0.72786516	0.148650889	0.137129796	0.113263098	0.000210016	2.51E-01	9.22E-01	7.62E-01	1.41E-03	*1.69E+00*	0.547199537	0.45196242	0.000838044
X	Arsenic	262.6144831	0.046325726	1.956887972	0.149840096	0.368677694	1.654077322	0.01019166	2.03E+00	2.46E+00	1.10E+01	6.80E-02	*1.36E+01*	0.181351384	0.813635371	0.005013245
	Barium	94.0695635	0.043463732	5.375403629	11.83503851	1.012726044	1.161759109	0.009562021	2.18E+00	8.56E-02	9.82E-02	8.08E-04	*1.85E-01*	0.463692385	0.531929495	0.00437812
	Beryllium	1.497856315	0.000150512	0.118877485	1.450568131	0.022396518	0.018498525	3.31127E-05	4.09E-02	1.54E-02	1.28E-02	2.28E-05	*2.82E-02*	0.547215418	0.451975538	0.000809044
	Cadmium	6.379371632	0.0025	5.735303459	2.120009672	1.080531172	0.07878524	0.00055	1.16E+00	5.10E-01	3.72E-02	2.59E-04	*5.47E-01*	0.931599675	0.067926133	0.000474193
	Chromium	929.8782865	0.058863979	1.200216248	19.78047452	0.226120741	11.48399684	0.012950075	1.17E+01	1.14E-02	5.81E-01	6.55E-04	*5.93E-01*	0.01928853	0.979606804	0.001104666
	Cobalt	20.80354584	0.003906503	1.651075067	10.99	0.311062543	0.256923791	0.000859431	5.69E-01	2.83E-02	2.34E-02	7.82E-05	*5.18E-02*	0.546831078	0.451658089	0.001510832
	Copper	626.9353555	0.071238205	4.640550483	33.43	0.874279711	7.74265164	0.015672405	8.63E+00	2.62E-02	2.32E-01	4.69E-04	*2.58E-01*	0.101276479	0.896908031	0.00181549
	Cyanide	1.265359937	0	0.100425392	141.9	0.018920144	0.015627195	0	3.45E-02	1.33E-04	1.10E-04	0.00E+00	*2.43E-04*	0.547658498	0.452341502	0
X	Iron	28489.68322	6.849223396	1718.425337	7.01	323.7513335	351.8475878	1.506829147	6.77E+02	4.62E+01	5.02E+01	2.15E-01	*9.66E+01*	0.478139985	0.519634618	0.002225397
	Lead	520.8111667	0.0759	19.87669728	17.58264402	3.744769767	6.432017908	0.016698	1.02E+01	2.13E-01	3.66E-01	9.50E-04	*5.80E-01*	0.367368914	0.630992981	0.001638105
	Manganese	1014.541839	0.579167241	7.935810906	193.41	1.495106775	12.52959172	0.127416793	1.42E+01	7.73E-03	6.48E-02	6.59E-04	*7.32E-02*	0.105645463	0.885351162	0.009003374
	Mercury	2.953986184	0.00060956	0.091014424	0.070330576	0.017147118	0.036481729	0.000134103	5.38E-02	2.44E-01	5.19E-01	1.91E-03	*7.64E-01*	0.318939297	0.678566361	0.002494341
	Nickel	34.71472804	0.003939512	2.494747916	87.91322008	0.470010507	0.428726891	0.000866693	9.00E-01	5.35E-03	4.88E-03	9.86E-06	*1.02E-02*	0.522463728	0.476572856	0.000963416
	Selenium	4.527088785	0.000910899	0.445453828	0.4395661	0.083923501	0.055909546	0.000200398	1.40E-01	1.91E-01	1.27E-01	4.56E-04	*3.19E-01*	0.599310407	0.399258522	0.001431071
	Silver	0.958347733	0.000312716	0.076059344	398.246887	0.01432958	0.011835595	6.87975E-05	2.62E-02	3.60E-05	2.97E-05	1.73E-07	*6.59E-05*	0.546222287	0.451155255	0.002622458
	Thallium	0.438259338	0.000814409	0.034782487	0.164354697	0.006553021	0.005412503	0.00017917	1.21E-02	3.99E-02	3.29E-02	1.09E-03	*7.39E-02*	0.539578923	0.445668132	0.014752945
X	Vanadium	65.08569443	0.006095546	5.165531304	0.428489138	0.973186098	0.803808326	0.00134102	1.78E+00	2.27E+00	1.88E+00	3.13E-03	*4.15E+00*	0.547245516	0.452000397	0.000754087
	Zinc	1085.554787	0.626	134.4402597	351.6528803	25.32854494	13.40660162	0.13772	3.89E+01	7.20E-02	3.81E-02	3.92E-04	*1.11E-01*	0.651573891	0.344883277	0.003542831

Table E.1-93. Maximun Exposure Calculations for Shrew - Station WH

	Maximum Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	2.7	0					0.823846224	3736.311853	0.155212629	0.033345	0	1.89E-01	4.15E-05	8.92E-06	0.00E+00	*5.05E-05*	0.823157513	0.176842487	0
	cis-1,2-Dichloroethene	0	0.000751254					0	6844.044183	0	0	0.000165276	0.00E+00	0.00E+00	0.00E+00	2.41E-08	*2.41E-08*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0					0	8.324449805	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0.66	0					0.265696802	1.55	0.050057277	0.008151	0	5.82E-02	3.24E-02	5.27E-03	0.00E+00	*3.77E-02*	0.85996837	0.14003163	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0.003118404					0	166.49	0	0	0.000686049	6.86E-04	0.00E+00	0.00E+00	4.12E-06	*4.12E-06*	0	0	1
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0.0000021					0	5.45	0	0	0.000000462	4.62E-07	0.00E+00	0.00E+00	8.48E-08	*8.48E-08*	0	0	1
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0.0000014					0	5.45	0	0	0.000000308	3.08E-07	0.00E+00	0.00E+00	5.65E-08	*5.65E-08*	0	0	1
	Inorganics																			
X	Aluminum	13414.1878	2.18					723.9402942	58.27114864	136.3903514	165.6652194	0.4796	3.03E+02	2.34E+00	2.84E+00	8.23E-03	*5.19E+00*	0.450824779	0.547589951	0.00158527
X	Antimony	26.58913691	0.000954619					2.110248961	0.148650889	0.397570904	0.328375841	0.000210016	7.26E-01	2.67E+00	2.21E+00	1.41E-03	*4.88E+00*	0.547500107	0.452210677	0.000289216
X	Arsenic	424	0.046325726					2.744399134	0.149840096	0.517044797	2.670564	0.01019166	3.20E+00	3.45E+00	1.78E+01	6.80E-02	*2.13E+01*	0.161687636	0.835125279	0.003187084
	Barium	94.21544898	0.043463732					5.383739942	11.83503851	1.014296605	1.163560795	0.009562021	2.19E+00	8.57E-02	9.83E-02	8.08E-04	*1.85E-01*	0.463695529	0.531933101	0.004371371
	Beryllium	1.187202995	0.000150512					0.09422246	1.450568131	0.017751511	0.014661957	3.31127E-05	3.24E-02	1.22E-02	1.01E-02	2.28E-05	*2.24E-02*	0.547099597	0.451879874	0.001020529
	Cadmium	10.38747908	0.0025					8.450522184	2.120009672	1.592078379	0.128285367	0.00055	1.72E+00	7.51E-01	6.05E-02	2.59E-04	*8.12E-01*	0.925135489	0.074544914	0.000319598
	Chromium	837.3738867	0.058863979					1.208671969	19.78047452	0.227713799	10.3415675	0.012950075	1.06E+01	1.15E-02	5.23E-01	6.55E-04	*5.35E-01*	0.021518505	0.977257738	0.001223757
	Cobalt	21.2385173	0.003906503					1.685596611	10.99	0.317566402	0.262295689	0.000859431	5.81E-01	2.89E-02	2.39E-02	7.82E-05	*5.28E-02*	0.546847999	0.451672065	0.001479936
	Copper	572	0.071238205					4.529551941	33.43	0.853367586	7.0642	0.015672405	7.93E+00	2.55E-02	2.11E-01	4.69E-04	*2.37E-01*	0.107568608	0.890455855	0.001975537
	Cyanide	0.739903842	0					0.058722527	141.9	0.011063324	0.009137812	0	2.02E-02	7.80E-05	6.44E-05	0.00E+00	*1.42E-04*	0.547658498	0.452341502	0
X	Iron	58501.20916	6.849223396					3528.644362	7.01	664.7965978	722.4899331	1.506829147	1.39E+03	9.48E+01	1.03E+02	2.15E-01	*1.98E+02*	0.478686475	0.520228534	0.001084992
X	Lead	1850.878196	0.0759					55.30407633	17.58264402	10.41928798	22.85834573	0.016698	3.33E+01	5.93E-01	1.30E+00	9.50E-04	*1.89E+00*	0.3129448	0.686553673	0.000501527
	Manganese	442.3902382	0.579167241					4.505620141	193.41	0.848858835	5.463519442	0.127416793	6.44E+00	4.39E-03	2.82E-02	6.59E-04	*3.33E-02*	0.131814573	0.848399582	0.019785846
	Mercury	0.702595454	0.00060956					0.076826891	0.070330576	0.014474186	0.008677054	0.000134103	2.33E-02	2.06E-01	1.23E-01	1.91E-03	*3.31E-01*	0.621600725	0.372640152	0.005759123
	Nickel	41.74349934	0.003939512					2.377974244	87.91322008	0.448010348	0.515532217	0.000866693	9.64E-01	5.10E-03	5.86E-03	9.86E-06	*1.10E-02*	0.464543807	0.534557516	0.000898677
	Selenium	3.262620476	0.000910899					0.350373819	0.4395661	0.066010428	0.040293363	0.000200398	1.07E-01	1.50E-01	9.17E-02	4.56E-04	*2.42E-01*	0.619791847	0.378326557	0.001881596
	Silver	0.323167174	0.000312716					0.025648188	398.246887	0.004832119	0.003991115	6.87975E-05	8.89E-03	1.21E-05	1.00E-05	1.73E-07	*2.23E-05*	0.543421274	0.448841743	0.007736983
	Thallium	0.852549301	0.000814409					0.067662643	0.164354697	0.012747642	0.010528984	0.00017917	2.35E-02	7.76E-02	6.41E-02	1.09E-03	*1.43E-01*	0.543475141	0.448886235	0.007638623
X	Vanadium	96.53774325	0.006095546					7.661725655	0.428489138	1.443469113	1.192241129	0.00134102	2.64E+00	3.37E+00	2.78E+00	3.13E-03	*6.15E+00*	0.547379997	0.452111472	0.00050853
	Zinc	2139.272788	0.626					167.9433731	351.6528803	31.64053149	26.42001893	0.13772	5.82E+01	9.00E-02	7.51E-02	3.92E-04	*1.65E-01*	0.5436679	0.453965706	0.002366393

Table E.1-94. Maximun Exposure Calculations for Shrew - Station WS

	Maximum Concentrations Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0	0					0	26.59374907	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acetone	0	0					0	3736.311853	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	cis-1,2-Dichloroethene	0	0.000751254					0	6844.044183	0	0	0.000165276	1.65E-04	0.00E+00	0.00E+00	2.41E-08	*2.41E-08*	0	0	1
	Tetrachloroethene	0	0					0	17	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Trichloroethene	0	0					0	8.324449805	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Semivolatile Organics																			
	2-Methylnaphthalene	0	0					0	170.89	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Acenaphthylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Anthracene	0	0					0	1189.21	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(a)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(b)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(g,h,i)perylene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Benzo(k)fluoranthene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Carbazole	0	0					na	158.52	No BCF	0	0	0.00E+00	No BCF	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Chrysene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenz(a,h)anthracene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Dibenzofuran	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluoranthene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Fluorene	0	0					0	148.65	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Indeno(1,2,3-cd)pyrene	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Naphthalene	0	0.003118404					0	166.49	0	0	0.000686049	6.86E-04	0.00E+00	0.00E+00	4.12E-06	*4.12E-06*	0	0	1
	N-nitrosodiphenylamine	0	0					0	329.67	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Phenanthrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pyrene	0	0					0	158.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Pesticides and PCBs																			
	4,4'-DDD	0	0					0	18.68	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDE	0	0					0	2.26	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	4,4'-DDT	0	0					0	1.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aldrin	0	0					0	0.44	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	alpha-Chlordane	0	0.0000021					0	5.45	0	0	0.000000462	4.62E-07	0.00E+00	0.00E+00	8.48E-08	*8.48E-08*	0	0	1
	Aroclor 1248	0	0					0	1.55	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1254	0	0					0	0.08	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Aroclor 1260	0	0					0	0.76	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	beta-BHC	0	0					0	8.79	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	delta-BHC	0	0					0	3.52	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan I	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endosulfan Sulfate	0	0					0	3.30	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	Endrin Aldehyde	0	0					0	0.11	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
	gamma-Chlordane	0	0.0000014					0	5.45	0	0	0.000000308	3.08E-07	0.00E+00	0.00E+00	5.65E-08	*5.65E-08*	0	0	1
	Inorganics																			
X	Aluminum	10522.95716	2.18					567.9056247	58.27114864	106.9934197	129.958521	0.4796	2.37E+02	1.84E+00	2.23E+00	8.23E-03	*4.07E+00*	0.450628503	0.547351546	0.002019951
	Antimony	4.943664383	0.000954619					0.392354316	0.148650889	0.073919553	0.061054255	0.000210016	1.35E-01	4.97E-01	4.11E-01	1.41E-03	*9.09E-01*	0.546807678	0.451638762	0.00155356
X	Arsenic	226.4372629	0.046325726					1.76246376	0.149840096	0.332048172	1.4262151	0.01019166	1.77E+00	2.22E+00	9.52E+00	6.80E-02	*1.18E+01*	0.187761738	0.806475231	0.005763031
	Barium	140.1247062	0.043463732					8.007126068	11.83503851	1.508542551	1.730540121	0.009562021	3.25E+00	1.27E-01	1.46E-01	8.08E-04	*2.74E-01*	0.464360585	0.532696027	0.002943388
	Beryllium	0.664849306	0.000150512					0.052765818	1.450568131	0.00994108	0.008210889	3.31127E-05	1.82E-02	6.85E-03	5.66E-03	2.28E-05	*1.25E-02*	0.546661283	0.451517846	0.001820871
	Cadmium	10.71244039	0.0025					8.660027273	2.120009672	1.631549138	0.132298639	0.00055	1.76E+00	7.70E-01	6.24E-02	2.59E-04	*8.32E-01*	0.924705959	0.07498232	0.000311721
	Chromium	727.8938984	0.058863979					1.220072082	19.78047452	0.22986158	8.989489645	0.012950075	9.23E+00	1.16E-02	4.54E-01	6.55E-04	*4.67E-01*	0.024897539	0.973699769	0.001402692
	Cobalt	25.34258449	0.003906503					2.011316229	10.99	0.378931978	0.312980918	0.000859431	6.93E-01	3.45E-02	2.85E-02	7.82E-05	*6.30E-02*	0.546979091	0.451780342	0.001240567
	Copper	414.0805733	0.071238205					4.159231512	33.43	0.783599217	5.113895081	0.015672405	5.91E+00	2.34E-02	1.53E-01	4.69E-04	*1.77E-01*	0.132517694	0.864831881	0.002650425
	Cyanide	5.720822811	0					0.454033556	141.9	0.085539922	0.070652162	0	1.56E-01	6.03E-04	4.98E-04	0.00E+00	*1.10E-03*	0.547658498	0.452341502	0
X	Iron	37158.63137	6.849223396					2241.314273	7.01	422.2636091	458.9090975	1.506829147	8.83E+02	6.02E+01	6.55E+01	2.15E-01	*1.26E+02*	0.478388353	0.519904539	0.001707108
	Lead	366.8012861	0.0759					14.97886576	17.58264402	2.822018308	4.529995883	0.016698	7.37E+00	1.61E-01	2.58E-01	9.50E-04	*4.19E-01*	0.382973067	0.614760865	0.002266068
	Manganese	1214.698571	0.579167241					8.972691322	193.41	1.690455045	15.00152735	0.127416793	1.68E+01	8.74E-03	7.76E-02	6.59E-04	*8.70E-02*	0.100506268	0.891918147	0.007575585
	Mercury	1.366469468	0.00060956					0.083100344	0.070330576	0.015656105	0.016875898	0.000134103	3.27E-02	2.23E-01	2.40E-01	1.91E-03	*4.64E-01*	0.479276741	0.51661799	0.004105269
	Nickel	36.21892271	0.003939512					2.467385514	87.91322008	0.464855431	0.447303695	0.000866693	9.13E-01	5.29E-03	5.09E-03	9.86E-06	*1.04E-02*	0.509137224	0.489913523	0.000949253
	Selenium	2.633887327	0.000910899					0.299491916	0.4395661	0.056424277	0.032528508	0.000200398	8.92E-02	1.28E-01	7.40E-02	4.56E-04	*2.03E-01*	0.632891332	0.364860875	0.002247792
	Silver	0.223601106	0.000312716					0.01774612	398.246887	0.003343369	0.002761474	6.87975E-05	6.17E-03	8.40E-06	6.93E-06	1.73E-07	*1.55E-05*	0.54155553	0.447300722	0.011143748
	Thallium	1.104317671	0.000814409					0.08764426	0.164354697	0.016512179	0.013638323	0.00017917	3.03E-02	1.00E-01	8.30E-02	1.09E-03	*1.85E-01*	0.544423252	0.449669332	0.005907416
X	Vanadium	44.88778927	0.006095546					3.562522958	0.428489138	0.671179325	0.554364197	0.00134102	1.23E+00	1.57E+00	1.29E+00	3.13E-03	*2.86E+00*	0.547059892	0.451847079	0.001093029
	Zinc	2044.305037	0.626					165.460586	351.6528803	31.1727744	25.24716721	0.13772	5.66E+01	8.86E-02	7.18E-02	3.92E-04	*1.61E-01*	0.551168021	0.446396942	0.002435037

Table E.1-95. Average Exposure Calculations for Shrew - Wetland Reference

	Mean Concentrations																			
	Compound	C_{Soil} (mg/Kg)	C_{Water} (mg/L)					C_{Prey} (mg/Kg)	RTV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics																			
	2-Butanone	0.0086	0.0025					0.016919547	26.59374907	0.003187643	0.00010621	0.00055	3.84E-03	1.20E-04	3.99E-06	2.07E-05	*0.00*	0.829283262	0.027631131	0.143085607
	Acetone	0.0341	0.0025					0.065736211	3736.311853	0.012384702	0.000421135	0.00055	1.34E-02	3.31E-06	1.13E-07	1.47E-07	*0.00*	0.927287598	0.031531906	0.041180496
	cis-1,2-Dichloroethene	0.0115	0.0005					0.02406845	6844.044183	0.004534496	0.000142025	0.00011	4.79E-03	6.63E-07	2.08E-08	1.61E-08	*0.00*	0.947346936	0.029671864	0.0229812
	Tetrachloroethene	0.012916667	0.0005					0.027904275	17	0.005257165	0.000159521	0.00011	5.53E-03	3.16E-04	9.58E-06	6.61E-06	*0.00*	0.951232832	0.02886374	0.019903428
	Trichloroethene	0.009083333	0.0005					0.019653755	8.324449805	0.003702767	0.000112179	0.00011	3.92E-03	4.45E-04	1.35E-05	1.32E-05	*0.00*	0.943393073	0.028581068	0.028025859
	Semivolatile Organics																			
	2-Methylnaphthalene	0.194666667	0.0025					0.440597351	170.89	0.083008541	0.002404133	0.00055	8.60E-02	4.86E-04	1.41E-05	3.22E-06	*0.00*	0.965634697	0.027967177	0.006398126
	Acenaphthylene	0.2425	0.0025					0.553390925	158.52	0.10425885	0.002994875	0.00055	1.08E-01	6.58E-04	1.89E-05	3.47E-06	*0.00*	0.967117324	0.027780812	0.005101865
	Anthracene	0.440166667	0.0025					1.019523969	1189.21	0.192078316	0.005436058	0.00055	1.98E-01	1.62E-04	4.57E-06	4.62E-07	*0.00*	0.969777208	0.027445917	0.002776875
	Benzo(a)anthracene	1.36	0.0025					3.296394631	1.55	0.621040748	0.016796	0.00055	6.38E-01	4.02E-01	1.09E-02	3.56E-04	*0.41*	0.972828383	0.02631007	0.000861547
	Benzo(a)pyrene	1.233333333	0.0025					3.032988468	1.55	0.571415027	0.015231667	0.00055	5.87E-01	3.70E-01	9.85E-03	3.56E-04	*0.38*	0.973123713	0.025939633	0.000936654
	Benzo(b)fluoranthene	2.188333333	0.0025					5.507236987	1.55	1.037563448	0.027025917	0.00055	1.07E+00	6.71E-01	1.75E-02	3.56E-04	*0.69*	0.974110508	0.025373127	0.000516364
	Benzo(g,h,i)perylene	0.375833333	0.0025					0.970589493	158.52	0.18285906	0.004641542	0.00055	1.88E-01	1.15E-03	2.93E-05	3.47E-06	*0.00*	0.972392847	0.024682408	0.002924745
	Benzo(k)fluoranthene	2.0225	0.0025					5.143974654	1.55	0.969124825	0.024977875	0.00055	9.95E-01	6.27E-01	1.62E-02	3.56E-04	*0.64*	0.974334886	0.025112157	0.000552957
	Carbazole	0.3226	0					na	158.52	No BCF	0.00398411	0	3.98E-03	No BCF	2.51E-05	0.00E+00	*0.00*	0	1	0
	Chrysene	1.61	0.0025					3.902349526	1.55	0.735202651	0.0198835	0.00055	7.56E-01	4.76E-01	1.29E-02	3.56E-04	*0.49*	0.972958546	0.02631359	0.000727864
	Dibenz(a,h)anthracene	0.234166667	0.0025					0.575632576	1.55	0.108449177	0.002891958	0.00055	1.12E-01	7.01E-02	1.87E-03	3.56E-04	*0.07*	0.969238329	0.025846179	0.004915492
	Dibenzofuran	0.357	0.0025					0.816278778	158.52	0.153786922	0.00440895	0.00055	1.59E-01	9.70E-04	2.78E-05	3.47E-06	*0.00*	0.968761707	0.027773636	0.003464657
	Fluoranthene	3.293333333	0.0025					7.895433492	148.65	1.48749967	0.040672667	0.00055	1.53E+00	1.00E-02	2.74E-04	3.70E-06	*0.01*	0.973034562	0.02660566	0.000359778
	Fluorene	0.568333333	0.0025					1.302547046	148.65	0.245399863	0.007018917	0.00055	2.53E-01	1.65E-03	4.72E-05	3.70E-06	*0.00*	0.970079641	0.027746177	0.002174181
	Indeno(1,2,3-cd)pyrene	0.5175	0.0025					1.359128889	1.55	0.256059883	0.006391125	0.00055	2.63E-01	1.66E-01	4.13E-03	3.56E-04	*0.17*	0.973607991	0.024300762	0.002091247
	Naphthalene	0.221333	0.0025					0.491435426	166.49	0.092586434	0.002733463	0.00055	9.59E-02	5.56E-04	1.64E-05	3.30E-06	*0.00*	0.965750849	0.028512209	0.005736942
	N-nitrosodiphenylamine	0.367	0.0025					0.796574416	329.67	0.15007462	0.00453245	0.00055	1.55E-01	4.55E-04	1.37E-05	1.67E-06	*0.00*	0.967243194	0.029212011	0.003544795
	Phenanthrene	2.408333333	0.0025					5.580419998	158.52	1.051351128	0.029742917	0.00055	1.08E+00	6.63E-03	1.88E-04	3.47E-06	*0.01*	0.971993636	0.027497879	0.000508485
	Pyrene	2.576666667	0.0025					6.141133365	158.52	1.156989526	0.031821833	0.00055	1.19E+00	7.30E-03	2.01E-04	3.47E-06	*0.01*	0.972782172	0.026755395	0.000462433
	Pesticides and PCBs																			
	4,4'-DDD	0.094716667	0.00005					0.233016511	18.68	0.043900311	0.001169751	0.000011	4.51E-02	2.35E-03	6.26E-05	5.89E-07	*0.00*	0.973808274	0.025947722	0.000244005
	4,4'-DDE	0.012583333	0.00005					0.03059539	2.26	0.005764171	0.000155404	0.000011	5.93E-03	2.55E-03	6.88E-05	4.87E-06	*0.00*	0.971941313	0.026203893	0.001854795
	4,4'-DDT	0.034166667	0.00005					0.084715504	1.76	0.015960401	0.000421958	0.000011	1.64E-02	9.08E-03	2.40E-04	6.26E-06	*0.01*	0.973589407	0.025739589	0.000671003
	Aldrin	0.000765833	0.000025					0.001922049	0.44	0.000362114	9.45804E-06	0.0000055	3.77E-04	8.24E-04	2.15E-05	1.25E-05	*0.00*	0.960331089	0.025082843	0.014586068
	alpha-Chlordane	0.0018275	0.000025					0.004554363	5.45	0.000858042	2.25696E-05	0.0000055	8.86E-04	1.58E-04	4.14E-06	1.01E-06	*0.00*	0.968322701	0.025470407	0.006206893
	Aroclor 1248	0.063833333	0.0005					0.158335323	1.55	0.029830375	0.000788342	0.00011	3.07E-02	1.93E-02	5.10E-04	7.12E-05	*0.02*	0.970765402	0.025654884	0.003579713
	Aroclor 1254	0.015766667	0.0005					0.039570376	0.08	0.007455059	0.000194718	0.00011	7.76E-03	9.22E-02	2.41E-03	1.36E-03	*0.10*	0.960731046	0.025093289	0.014175665
	Aroclor 1260	0.048833333	0.0005					0.124007131	0.76	0.023362943	0.000603092	0.00011	2.41E-02	3.08E-02	7.95E-04	1.45E-04	*0.03*	0.970381682	0.025049459	0.004568859
	beta-BHC	0.000794167	0.000025					0.001793957	8.79	0.000337981	9.80796E-06	0.0000055	3.53E-04	3.84E-05	1.12E-06	6.26E-07	*0.00*	0.956670202	0.027761825	0.015567973
	delta-BHC	0.0009275	0.000025					0.002122385	3.52	0.000399857	1.14546E-05	0.0000055	4.17E-04	1.14E-04	3.26E-06	1.56E-06	*0.00*	0.959323088	0.027481515	0.013195398
	Endosulfan I	0.000780833	0.000025					0.001783974	3.30	0.000336101	9.64329E-06	0.0000055	3.51E-04	1.02E-04	2.93E-06	1.67E-06	*0.00*	0.956886699	0.027454674	0.015658627
	Endosulfan Sulfate	0.002533333	0.00005					0.005689088	3.30	0.001071824	3.12867E-05	0.000011	1.11E-03	3.25E-04	9.49E-06	3.34E-06	*0.00*	0.962044469	0.028082186	0.009873345
	Endrin Aldehyde	0.002366667	0.00005					0.005734128	0.11	0.00108031	2.92283E-05	0.000011	1.12E-03	9.87E-03	2.67E-04	1.01E-04	*0.01*	0.964099092	0.026084195	0.009816712
	gamma-Chlordane	0.002144167	0.0000017					0.005343537	5.45	0.001006722	2.64805E-05	0.000000374	1.03E-03	1.85E-04	4.86E-06	6.87E-08	*0.00*	0.974017937	0.025620212	0.00036185
	Inorganics																			
X	Aluminum	8195	0.142					442.2698413	58.27114864	83.3236381	101.20825	0.03124	1.85E+02	1.43E+00	1.74E+00	5.36E-04	*3.17*	0.451464163	0.548366573	0.000169265
	Antimony	0.7516667	0.00055					0.059656087	0.148650889	0.011239207	0.009283084	0.000121	2.06E-02	7.56E-02	6.24E-02	8.14E-04	*0.14*	0.544448415	0.449690116	0.005861469
X	Arsenic	20.55	0.0032					0.323871056	0.149840096	0.061017307	0.129434175	0.000704	1.91E-01	4.07E-01	8.64E-01	4.70E-03	*1.28*	0.319202496	0.677114638	0.003682866
	Barium	47.8833333	0.0451					2.736190474	11.83503851	0.515498285	0.591359166	0.009922	1.12E+00	4.36E-02	5.00E-02	8.38E-04	*0.09*	0.461593634	0.52952189	0.008884476
	Beryllium	0.6558333	0.00005					0.052050262	1.450568131	0.009806269	0.008099541	0.000011	1.79E-02	6.76E-03	5.58E-03	7.58E-06	*0.01*	0.547322264	0.452063787	0.000613949
	Cadmium	1.3033333	0.000075					1.622658356	2.120009672	0.305708834	0.016096166	0.0000165	3.22E-01	1.44E-01	7.59E-03	7.78E-06	*0.15*	0.949932909	0.05001582	5.12707E-05
	Chromium	129.1	0.00088					1.36997295	19.78047452	0.258102904	1.594385	0.0001936	1.85E+00	1.30E-02	8.06E-02	9.79E-06	*0.09*	0.139313154	0.860582349	0.000104497
	Cobalt	8.3666667	0.00025					0.664021167	10.99	0.125101588	0.103328334	0.000055	2.28E-01	1.14E-02	9.40E-03	5.00E-06	*0.02*	0.547526668	0.452232616	0.000240716
	Copper	56.8333333	0.0039					2.462169352	33.43	0.463872706	0.701891666	0.000858	1.17E+00	1.39E-02	2.10E-02	2.57E-05	*0.03*	0.397620273	0.601644271	0.000735456
	Cyanide	0.4349983	0.0025					0.034523675	141.9	0.00650426	0.005372229	0.00055	1.24E-02	4.58E-05	3.79E-05	3.88E-06	*0.00*	0.523418975	0.432320736	0.044260288
X	Iron	15518.33333	2.78					936.026455	7.01	176.3473841	191.6514167	0.6116	3.69E+02	2.52E+01	2.73E+01	8.72E-02	*52.58*	0.478411308	0.519929487	0.001659204
	Lead	331.8666667	0.0063					13.81659047	17.58264402	2.603045645	4.098553334	0.001386	6.70E+00	1.48E-01	2.33E-01	7.88E-05	*0.38*	0.388341262	0.611451965	0.000206774
	Manganese	133.4833333	0.52					1.990015443	193.41	0.374918909	1.648519166	0.1144	2.14E+00	1.94E-03	8.52E-03	5.91E-04	*0.01*	0.175372922	0.771115074	0.053512004
	Mercury	0.279	0.00013					0.068894305	0.070330576	0.012979687	0.00344565	0.0000286	1.65E-02	1.85E-01	4.90E-02	4.07E-04	*0.23*	0.788849928	0.209411886	0.001738186
	Nickel	18.9166667	0.0018					2.921330199	87.91322008	0.550378609	0.233620834	0.000396	7.84E-01	6.26E-03	2.66E-03	4.50E-06	*0.01*	0.701659621	0.297835532	0.000504847
	Selenium	0.7566667	0.00095					0.120039576	0.4395661	0.022615456	0.009344834	0.000209	3.22E-02	5.14E-02	2.13E-02	4.75E-04	*0.07*	0.703013844	0.290489276	0.006496879
	Silver	1.11	0.0002					0.088095238	398.246887	0.016597143	0.0137085	0.000044	3.03E-02	4.17E-05	3.44E-05	1.10E-07	*0.00*	0.546864519	0.451685711	0.00144977
	Thallium	0.465	0.00075					0.036904762	0.164354697	0.006952857	0.00574275	0.000165	1.29E-02	4.23E-02	3.49E-02	1.00E-03	*0.08*	0.540632107	0.446538016	0.012829876
X	Vanadium	55.6666667	0.000275					4.417989421	0.428489138	0.832349207	0.687483334	0.0000605	1.52E+00	1.94E+00	1.60E+00	1.41E-04	*3.55*	0.547636699	0.452323496	3.98054E-05
	Zinc	154.6	0.0161					70.94083327	351.6528803	13.36525299	1.90931	0.003542	1.53E+01	3.80E-02	5.43E-03	1.01E-05	*0.04*	0.874797823	0.124970342	0.000231835

Table E.1-96. Maximun Exposure Calculations for Shrew - Wetland Reference

	Maximum Concentrations Compound	C Soil (mg/Kg)	C Water (mg/L)	C Prey (mg/Kg)	TRV mg/Kg day	DOSE prey	DOSE soil/ sediment	DOSE water	Total Dose	HQ Prey	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ Prey	% HQ soil/ sediment	% HQ water
	Volatile Organics															
	2-Butanone	0.013178	0.003201562	0.025926262	26.5937491	0.004884508	0.00016275	0.00070434	5.75E-03	1.84E-04	6.12E-06	2.65E-05	*2.16E-04*	0.84924335	0.02829619	0.12246047
	Acetone	0.07110519	0	0.137072889	3736.31185	0.025824532	0.00087815	0	2.67E-02	6.91E-06	2.35E-07	0.00E+00	*7.15E-06*	0.96711383	0.03288617	0
	cis-1,2-Dichloroethene	0	0.001061097	0	6844.04418	0	0	0.00023344	0.00E+00	0.00E+00	0.00E+00	3.41E-08	*3.41E-08*	0	0	1
	Tetrachloroethene	0.03259953	0.001061097	0.070425783	17	0.013268218	0.0004026	0.00023344	1.39E-02	7.97E-04	2.42E-05	1.40E-05	*8.35E-04*	0.95425536	0.02895545	0.01678919
	Trichloroethene	0.01192611	0.001061097	0.025804711	8.32444981	0.004861607	0.00014729	0.00023344	5.24E-03	5.84E-04	1.77E-05	2.80E-05	*6.30E-04*	0.92737423	0.02809576	0.04453001
	Semivolatile Organics															
	2-Methylnaphthalene	0.28909723	0.002561097	0.654326074	170.89	0.123275032	0.00357035	0.00056344	1.27E-01	7.21E-04	2.09E-05	3.30E-06	*7.46E-04*	0.9675549	0.02802279	0.00442231
	Acenaphthylene	0.6904717	0.002561097	1.575673297	158.52	0.296856849	0.00852733	0.00056344	3.06E-01	1.87E-03	5.38E-05	3.55E-06	*1.93E-03*	0.97028653	0.02787185	0.00184163
	Anthracene	1.65632969	0.002561097	3.836428226	1189.21	0.722783078	0.02045567	0.00056344	7.44E-01	6.08E-04	1.72E-05	4.74E-07	*6.25E-04*	0.97174099	0.02750149	0.00075751
X	Benzo(a)anthracene	5.4058582	0.002561097	13.10282497	1.55	2.468572224	0.06676235	0.00056344	2.54E+00	1.60E+00	4.32E-02	3.64E-04	*1.64E+00*	0.97345091	0.02632691	0.00022219
X	Benzo(a)pyrene	4.90391591	0.002561097	12.05961114	1.55	2.272030738	0.06056336	0.00056344	2.33E+00	1.47E+00	3.92E-02	3.64E-04	*1.51E+00*	0.97380082	0.02595768	0.00024149
X	Benzo(b)fluoranthene	9.36255944	0.002561097	23.5621479	1.55	4.439108664	0.11562761	0.00056344	4.56E+00	2.87E+00	7.48E-02	3.64E-04	*2.95E+00*	0.97449322	0.0253831	0.00012369
	Benzo(g,h,i)perylene	0.62657552	0.002561097	1.618131141	158.52	0.304855907	0.00773821	0.00056344	3.13E-01	1.92E-03	4.88E-05	3.55E-06	*1.98E-03*	0.9734905	0.02471027	0.00179923
X	Benzo(k)fluoranthene	9.46388392	0.002561097	24.07019977	1.55	4.534825636	0.11687897	0.00056344	4.65E+00	2.93E+00	7.56E-02	3.64E-04	*3.01E+00*	0.97475588	0.02512301	0.00012111
	Carbazole	0.99	0	na	158.52	No BCF	0.0122265	0	1.22E-02	No BCF	7.71E-05	0.00E+00	*7.71E-05*	0	1	0
X	Chrysene	6.68365528	0.002561097	16.19997454	1.55	3.052075203	0.08254314	0.00056344	3.14E+00	1.97E+00	5.34E-02	3.64E-04	*2.03E+00*	0.97349226	0.02632802	0.00017972
	Dibenz(a,h)anthracene	0.3496419	0.002561097	0.85949581	1.55	0.161929011	0.00431808	0.00056344	1.67E-01	1.05E-01	2.79E-03	3.64E-04	*1.08E-01*	0.97073615	0.02588612	0.00337773
	Dibenzofuran	1	0.002561097	2.286495177	158.52	0.430775691	0.01235	0.00056344	4.44E-01	2.72E-03	7.79E-05	3.55E-06	*2.80E-03*	0.9708953	0.0278348	0.0012699
	Fluoranthene	15	0.002561097	35.9609825	148.65	6.775049104	0.18525	0.00056344	6.96E+00	4.56E-02	1.25E-03	3.79E-06	*4.68E-02*	0.97330597	0.02661308	8.0944E-05
	Fluorene	1.36941735	0.002561097	3.138528791	148.65	0.591298824	0.0169123	0.00056344	6.09E-01	3.98E-03	1.14E-04	3.79E-06	*4.10E-03*	0.97129357	0.0277809	0.00092553
	Indeno(1,2,3-cd)pyrene	1.40515469	0.002561097	3.690408382	1.55	0.695272939	0.01735366	0.00056344	7.13E-01	4.50E-01	1.12E-02	3.64E-04	*4.61E-01*	0.97487752	0.02433245	0.00079003
	Naphthalene	0.35904795	0.00268329	0.797210014	166.49	0.150194367	0.00443424	0.00059032	1.55E-01	9.02E-04	2.66E-05	3.55E-06	*9.32E-04*	0.96762917	0.02856766	0.00380317
	N-nitrosodiphenylamine	2.03463755	0.002561097	4.416185886	329.67	0.832009421	0.02512777	0.00056344	8.58E-01	2.52E-03	7.62E-05	1.71E-06	*2.60E-03*	0.97004641	0.02929667	0.00065692
	Phenanthrene	12	0.002561097	27.80555293	158.52	5.238566173	0.1482	0.00056344	5.39E+00	3.30E-02	9.35E-04	3.55E-06	*3.40E-02*	0.97238642	0.02750899	0.00010459
	Pyrene	10.735819	0.002561097	25.58735941	158.52	4.820658513	0.13258736	0.00056344	4.95E+00	3.04E-02	8.36E-04	3.55E-06	*3.13E-02*	0.97312153	0.02676473	0.00011374
	Pesticides and PCBs															
	4,4'-DDD	0.39	0.000133479	0.959455632	18.68	0.180761441	0.0048165	2.9365E-05	1.86E-01	9.68E-03	2.58E-04	1.57E-06	*9.94E-03*	0.97389184	0.02594995	0.00015821
	4,4'-DDE	0.02337246	0.000133479	0.056828304	2.26	0.010706452	0.00028865	2.9365E-05	1.10E-02	4.74E-03	1.28E-04	1.30E-05	*4.88E-03*	0.97115369	0.02618266	0.00266365
	4,4'-DDT	0.13	0.000133479	0.322332163	1.76	0.060727379	0.0016055	2.9365E-05	6.24E-02	3.45E-02	9.13E-04	1.67E-05	*3.55E-02*	0.97378437	0.02574474	0.00047088
	Aldrin	0.00114898	3.45647E-05	0.00288366	0.44	0.000543282	1.419E-05	7.6042E-06	5.65E-04	1.24E-03	3.23E-05	1.73E-05	*1.29E-03*	0.9614314	0.02511158	0.01345702
	alpha-Chlordane	0.00419922	3.45647E-05	0.010465003	5.45	0.001971607	5.186E-05	7.6042E-06	2.03E-03	3.62E-04	9.52E-06	1.40E-06	*3.73E-04*	0.97072252	0.02553353	0.00374395
	Aroclor 1248	0.29	0.001376372	0.71933019	1.55	0.135521808	0.0035815	0.0003028	1.39E-01	8.77E-02	2.32E-03	1.96E-04	*9.02E-02*	0.97213679	0.02569113	0.00217208
	Aroclor 1254	0.02272304	0.001376372	0.057029135	0.08	0.010744289	0.00028063	0.0003028	1.13E-02	1.33E-01	3.47E-03	3.74E-03	*1.40E-01*	0.94849524	0.0247737	0.02673105
	Aroclor 1260	0.2	0.001376372	0.507879035	0.76	0.09568441	0.00247	0.0003028	9.85E-02	1.26E-01	3.26E-03	3.99E-04	*1.30E-01*	0.97183749	0.02508704	0.00307547
	beta-BHC	0.0004	3.45647E-05	0.000903567	8.79	0.000170232	0.00000494	7.6042E-06	1.83E-04	1.94E-05	5.62E-07	8.65E-07	*2.08E-05*	0.93136835	0.02702759	0.04160407
	delta-BHC	0.0011491	3.45647E-05	0.002629461	3.52	0.00049539	1.4191E-05	7.6042E-06	5.17E-04	1.41E-04	4.04E-06	2.16E-06	*1.47E-04*	0.95785738	0.02743953	0.01470309
	Endosulfan I	0.00022	3.45647E-05	0.000502635	3.30	9.46965E-05	2.717E-06	7.6042E-06	1.05E-04	2.87E-05	8.24E-07	2.31E-06	*3.19E-05*	0.90171912	0.02587182	0.07240906
	Endosulfan Sulfate	0.00490268	0.000133479	0.011009904	3.30	0.002074266	6.0548E-05	2.9365E-05	2.16E-03	6.29E-04	1.84E-05	8.91E-06	*6.56E-04*	0.95845382	0.02797737	0.0135688
	Endrin Aldehyde	0.00456345	0.000133479	0.011056657	0.11	0.002083074	5.6359E-05	2.9365E-05	2.17E-03	1.90E-02	5.15E-04	2.68E-04	*1.98E-02*	0.96047398	0.02598612	0.0135399
	gamma-Chlordane	0.00361266	3.45647E-05	0.009003204	5.45	0.001696204	4.4616E-05	7.6042E-06	1.75E-03	3.11E-04	8.19E-06	1.40E-06	*3.21E-04*	0.97013279	0.02551802	0.00434919
	Inorganics															
X	Aluminum	12241.8863	12.8339515	660.6732292	58.2711486	124.4708364	151.187296	2.82346933	2.78E+02	2.14E+00	2.59E+00	4.85E-02	*4.78E+00*	0.44696251	0.54289869	0.0101388
	Antimony	1.04838399	0.026670019	0.083205079	0.14865089	0.015675837	0.01294754	0.0058674	3.45E-02	1.05E-01	8.71E-02	3.95E-02	*2.32E-01*	0.4544935	0.37539137	0.17011513
X	Arsenic	32.7339343	0.019270225	0.449899718	0.1498401	0.084761107	0.20617469	0.00423945	2.95E-01	5.66E-01	1.38E+00	2.83E-02	*1.97E+00*	0.2871552	0.69848231	0.01436248
	Barium	72.0003218	0.049689781	4.114304105	11.8350385	0.775134893	0.88920397	0.01093175	1.68E+00	6.55E-02	7.51E-02	9.24E-04	*1.42E-01*	0.46269235	0.53078229	0.00652536
	Beryllium	1.03341001	0.000117393	0.082016667	1.45056813	0.01545194	0.01276261	2.5826E-05	2.82E-02	1.07E-02	8.80E-03	1.78E-05	*1.95E-02*	0.54715765	0.45192783	0.00091452
	Cadmium	2.16577502	0.000600328	2.429800286	2.12000967	0.457774374	0.02674732	0.00013207	4.85E-01	2.16E-01	1.26E-02	6.23E-05	*2.29E-01*	0.94453898	0.05518851	0.00027251
	Chromium	410	0.012844476	1.267907388	19.7804745	0.238873752	5.0635	0.00282578	5.31E+00	1.21E-02	2.56E-01	1.43E-04	*2.68E-01*	0.04502635	0.95444101	0.00053264
	Cobalt	12.5141648	0.010286733	0.993187686	10.99	0.18711656	0.15454994	0.00226308	3.44E-01	1.70E-02	1.41E-02	2.06E-04	*3.13E-02*	0.54405487	0.44936506	0.00658007
	Copper	93.4582662	0.022229555	2.807668133	33.43	0.528964676	1.15420959	0.0048905	1.69E+00	1.58E-02	3.45E-02	1.46E-04	*5.05E-02*	0.31335568	0.68374722	0.00289711
	Cyanide	0	0	0	141.9	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*0.00E+00*	0	0	0
X	Iron	22525.4733	23.02489696	1358.67934	7.01	255.9751876	278.189595	5.06547733	5.39E+02	3.65E+01	3.97E+01	7.22E-01	*7.69E+01*	0.47470479	0.51590131	0.0093939
	Lead	523.525895	0.257642406	19.96026638	17.582644	3.760514187	6.4655448	0.05668133	1.03E+01	2.14E-01	3.68E-01	3.22E-03	*5.85E-01*	0.36571129	0.62877644	0.00551228
	Manganese	209.698634	1.395585926	2.707967218	193.41	0.510181024	2.58977814	0.3070289	3.41E+00	2.64E-03	1.34E-02	1.59E-03	*1.76E-02*	0.14974547	0.76013713	0.0901174
	Mercury	0.71	9.88935E-05	0.07692199	0.07033058	0.014492103	0.0087685	2.1757E-05	2.33E-02	2.06E-01	1.25E-01	3.09E-04	*3.31E-01*	0.62244993	0.37661561	0.00093447
	Nickel	27.3	0.007213819	2.655571258	87.9132201	0.500309625	0.337155	0.00158704	8.39E-01	5.69E-03	3.84E-03	1.81E-05	*9.54E-03*	0.59627988	0.40182865	0.00189147
	Selenium	1.68768672	0.001308681	0.216118665	0.4395661	0.040716757	0.02084293	0.00028791	6.18E-02	9.26E-02	4.74E-02	6.55E-04	*1.41E-01*	0.65834015	0.3370047	0.00465515
	Silver	2.9	0.000413217	0.23015873	398.246887	0.043361905	0.035815	9.0908E-05	7.93E-02	1.09E-04	8.99E-05	2.28E-07	*1.99E-04*	0.54703042	0.45182274	0.00114684
	Thallium	0.72828336	0.000738329	0.057800266	0.1643547	0.01088957	0.0089943	0.00016243	2.00E-02	6.63E-02	5.47E-02	9.88E-04	*1.22E-01*	0.5432209	0.44867624	0.00810286
X	Vanadium	98.9638803	0.01634224	7.854276214	0.42848914	1.479745639	1.22220392	0.00359529	2.71E+00	3.45E+00	2.85E+00	8.39E-03	*6.31E+00*	0.54693074	0.4517404	0.00132886
	Zinc	231.836039	0.128337647	81.02423201	351.65288	15.26496531	2.86317508	0.02823428	1.82E+01	4.34E-02	8.14E-03	8.03E-05	*5.16E-02*	0.84074963	0.15769531	0.00155506

Table E.1-97. Maximum Exposure Calculations for Muskrat - Station 01

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 6	Reach 5																	
	Inorganics																					
X		Arsenic	171	0.004871445	0	9.01	0.05	0	4.534878346	4.534878346	0.20433303	0.000492016	4.74E+00	0.00E+00	8.27E+01	3.73E+00	8.97E-03	*8.65E+01*	0	0.95678526	0.04311093	0.00010381
		Chromium	66.8548213	0.003317468	0.200	1.25	7.24	0.0059696	0.628614353	0.634583953	0.156640846	0.000335064	7.92E-01	8.25E-04	8.69E-02	2.16E-02	4.63E-05	*1.09E-01*	0.00754156	0.79414632	0.19788882	0.0004233
X		Copper	1250	0.0068	40.550	63.31	12.23	1.2103364	31.85420432	33.06454072	2.92875	0.0006868	3.60E+01	9.89E-02	2.60E+00	2.39E-01	5.61E-05	*2.94E+00*	0.03362608	0.88498706	0.08136778	1.9081E-05
X		Lead	384	0.007092017	0.213	35.02	6.43	0.0063427	17.61982202	17.62616472	0.899712	0.000716294	1.85E+01	9.86E-04	2.74E+00	1.40E-01	1.11E-04	*2.88E+00*	0.00034236	0.95105571	0.04856327	3.8663E-05
		Mercury	0.63	0.000069	0	0.02	0.03	0	0.011103974	0.011103974	0.00147609	0.000006969	1.26E-02	0.00E+00	4.32E-01	5.74E-02	2.71E-04	*4.89E-01*	0	0.88217564	0.11727069	0.00055367

Table E.1-98. Maximum Exposure Calculations for Muskrat - Station 02

	Maximum Concentrations																					
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 6	Reach 5																	
	Inorganics																				
X	Arsenic	56.4	0.0048714	0	2.97	0.05	0	1.495714261	1.495714261	0.0673941	0.00049202	1.56E+00	0.00E+00	2.73E+01	1.23E+00	8.97E-03	*2.85E+01*	0	0.95658349	0.04310184	0.00031467
	Chromium	103	0.0033175	0.200	1.92	7.24	0.0059696	0.968475827	0.974445427	0.241329	0.00033506	1.22E+00	8.25E-04	1.34E-01	3.33E-02	4.63E-05	*1.68E-01*	0.00490877	0.79637223	0.19844348	0.00027552
	Copper	128	0.0068	40.550	6.48	12.23	1.2103364	3.261870523	4.472206923	0.299904	0.0006868	4.77E+00	9.89E-02	2.67E-01	2.45E-02	5.61E-05	*3.90E-01*	0.25359055	0.68342945	0.0628361	0.0001439
X	Lead	357.78615	0.007092	0.213	32.63	6.43	0.0063427	16.41700074	16.42334344	0.8382929	0.00071629	1.73E+01	9.86E-04	2.55E+00	1.30E-01	1.11E-04	*2.68E+00*	0.00036743	0.95102916	0.04856192	4.1495E-05
	Mercury	0.37	0.000069	0	0.01	0.03	0	0.006521381	0.006521381	0.0008669	6.969E-06	7.40E-03	0.00E+00	2.53E-01	3.37E-02	2.71E-04	*2.87E-01*	0	0.88183256	0.11722508	0.00094236

Table E.1-99. Maximum Exposure Calculations for Muskrat - Station 03

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 6	Reach 5																	
	Inorganics																				
X	Arsenic	79.34062	0.00487145	0	4.18	0.05	0	2.104093923	2.104093923	0.0948065	0.00049202	2.20E+00	0.00E+00	3.84E+01	1.73E+00	8.97E-03	*4.01E+01*	0	0.95667053	0.04310576	0.00022371
	Chromium	180.40043	0.00331747	0.200	3.37	7.24	0.0059696	1.696247138	1.702216738	0.4226782	0.00033506	2.13E+00	8.25E-04	2.34E-01	5.84E-02	4.63E-05	*2.94E-01*	0.00280892	0.79814756	0.19888586	0.00015766
	Copper	171	0.0068	40.550	8.66	12.23	1.2103364	4.357655152	5.567991552	0.400653	0.0006868	5.97E+00	9.89E-02	3.56E-01	3.28E-02	5.61E-05	*4.88E-01*	0.20275912	0.73000725	0.06711857	0.00011505
X	Lead	308.90628	0.00709202	0.213	28.17	6.43	0.0063427	14.17415022	14.18049292	0.7237674	0.00071629	1.49E+01	9.86E-04	2.20E+00	1.13E-01	1.11E-04	*2.32E+00*	0.00042554	0.95096762	0.04855878	4.8057E-05
	Mercury	0.6346459	0.000069	0	0.02	0.03	0	0.011185859	0.011185859	0.001487	6.969E-06	1.27E-02	0.00E+00	4.35E-01	5.78E-02	2.71E-04	*4.93E-01*	0	0.88217922	0.11727117	0.00054961

Table E.1-100. Maximum Exposure Calculations for Muskrat - Station 04

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 6	Reach 5																	
	Inorganics																				
X	Arsenic	121.27314	0.00487145	0	6.39	0.05	0	3.21613408	3.21613408	0.1449129	0.00049202	3.36E+00	0.00E+00	5.87E+01	2.64E+00	8.97E-03	*6.13E+01*	0	0.95674454	0.0431091	0.00014637
	Chromium	337.45278	0.00331747	0.200	6.31	7.24	0.0059696	3.17295984	3.17892944	0.7906519	0.00033506	3.97E+00	8.25E-04	4.38E-01	1.09E-01	4.63E-05	*5.49E-01*	0.00150371	0.79925105	0.19916084	8.4401E-05
X	Copper	433.37222	0.0068	40.550	21.95	12.23	1.2103364	11.04378176	12.25411816	1.0153911	0.0006868	1.33E+01	9.89E-02	9.03E-01	8.30E-02	5.61E-05	*1.08E+00*	0.09120712	0.83222446	0.07651666	5.1755E-05
X	Lead	612.08059	0.00709202	0.213	55.82	6.43	0.0063427	28.08528902	28.09163172	1.4341048	0.00071629	2.95E+01	9.86E-04	4.37E+00	2.23E-01	1.11E-04	*4.59E+00*	0.00021481	0.95119076	0.04857017	2.4259E-05
X	Mercury	1.3198168	0.000069	0	0.05	0.03	0	0.02326224	0.02326224	0.0030923	6.969E-06	2.64E-02	0.00E+00	9.04E-01	1.20E-01	2.71E-04	*1.02E+00*	0	0.882431	0.11730464	0.00026436

Table E.1-101. Maximum Exposure Calculations for Muskrat - Station 05

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 5	Reach 5																	
	Inorganics																				
X	Arsenic	22.471139	0	0	1.18	0.05	0	0.595929139	0.595929139	0.0268514	0	6.23E-01	0.00E+00	1.09E+01	4.90E-01	0.00E+00	*1.14E+01*	0	0.95688459	0.04311541	0
	Chromium	136.29401	0.00085	0.200	2.55	7.24	0.0059696	1.281528681	1.287498281	0.3193369	0.00008585	1.61E+00	8.25E-04	1.77E-01	4.41E-02	1.19E-05	*2.22E-01*	0.00371493	0.79750572	0.19872593	5.3425E-05
	Copper	75.036462	0.0017	40.550	3.80	12.23	1.2103364	1.912181435	3.122517835	0.1758104	0.0001717	3.30E+00	9.89E-02	1.56E-01	1.44E-02	1.40E-05	*2.70E-01*	0.3669354	0.57971243	0.05330012	5.2054E-05
X	Lead	568.54414	0	0.213	51.85	6.43	0.0063427	26.08762118	26.09396388	1.3320989	0	2.74E+01	9.86E-04	4.06E+00	2.07E-01	0.00E+00	*4.26E+00*	0.00023127	0.95119819	0.04857055	0
	Mercury	1.0301522	0	0	0.04	0.03	0	0.018156798	0.018156798	0.0024136	0	2.06E-02	0.00E+00	7.06E-01	9.38E-02	0.00E+00	*7.99E-01*	0	0.88266434	0.11733566	0

Table E.1-102. Maximum Exposure Calculations for Muskrat - Station 06

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 4	Reach 3																	
	Inorganics																				
X	Arsenic	115.42909	0	2.100	6.08	0.05	0.0626808	3.061151274	3.123832074	0.1379297	0	3.26E+00	1.14E+00	5.58E+01	2.52E+00	0.00E+00	*5.95E+01*	0.01921685	0.93849628	0.04228687	0
	Chromium	442	0.0043	1.200	8.26	7.24	0.0358176	4.155983648	4.191801248	1.035606	0.0004343	5.23E+00	4.95E-03	5.74E-01	1.43E-01	6.00E-05	*7.22E-01*	0.00685132	0.79497123	0.19809437	8.3074E-05
	Copper	357.47681	0.0052	49.500	18.11	12.23	1.477476	9.10971156	10.58718756	0.8375682	0.0005252	1.14E+01	1.21E-01	7.45E-01	6.85E-02	4.29E-05	*9.34E-01*	0.12931638	0.79732933	0.07330832	4.5968E-05
X	Lead	442.40826	0.0057	1.500	40.35	6.43	0.044772	20.29988233	20.34465433	1.0365626	0.0005757	2.14E+01	6.96E-03	3.16E+00	1.61E-01	8.95E-05	*3.32E+00*	0.00209393	0.9494004	0.04847875	2.6925E-05
X	Mercury	3.2	0	0	0.11	0.03	0	0.056401136	0.056401136	0.0074976	0	6.39E-02	0.00E+00	2.19E+00	2.91E-01	0.00E+00	*2.48E+00*	0	0.88266434	0.11733566	0

Table E.1-103. Maximum Exposure Calculations for Muskrat - Station 07

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 3	Reach 3																	
	Inorganics																				
X	Arsenic	80.645325	0	2.100	4.25	0.05	0.0626808	2.138694377	2.201375177	0.0963655	0	2.30E+00	1.14E+00	3.90E+01	1.76E+00	0.00E+00	*4.19E+01*	0.02727932	0.93078143	0.04193925	0
	Chromium	239.37056	0.0031	1.200	4.47	7.24	0.0358176	2.250724241	2.286541841	0.5608452	0.0003131	2.85E+00	4.95E-03	3.11E-01	7.75E-02	4.33E-05	*3.93E-01*	0.01257773	0.7903656	0.19694672	0.00010995
	Copper	230.43242	0.0036	49.500	11.67	12.23	1.477476	5.872193148	7.349669148	0.5399032	0.0003636	7.89E+00	1.21E-01	4.80E-01	4.41E-02	2.97E-05	*6.45E-01*	0.18726084	0.74426373	0.06842935	4.6084E-05
X	Lead	340.23995	0.0043	1.500	31.03	6.43	0.044772	15.61189422	15.65666622	0.7971822	0.0004343	1.65E+01	6.96E-03	2.43E+00	1.24E-01	6.75E-05	*2.56E+00*	0.00272099	0.9488043	0.04844831	2.6394E-05
X	Mercury	2.4744909	0.00022	0	0.09	0.03	0	0.04361378	0.04361378	0.0057977	0.00002222	4.94E-02	0.00E+00	1.69E+00	2.25E-01	8.63E-04	*1.92E+00*	0	0.8822676	0.11728291	0.00044949

Table E.1-104. Maximum Exposure Calculations for Muskrat - Station 08

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Arsenic	28.9	0.01975	2.7000	1.52	0.05	0.0805896	0.76642096	0.84701056	0.0345335	0.00199475	8.84E-01	1.47E+00	1.40E+01	6.30E-01	3.64E-02	*1.61E+01*	0.09121229	0.86744461	0.03908541	0.00225768
	Chromium	119	0.0121	2.5000	2.22	7.24	0.07462	1.118918674	1.193538674	0.278817	0.0012221	1.47E+00	1.03E-02	1.55E-01	3.85E-02	1.69E-04	*2.04E-01*	0.05063866	0.75932108	0.18921092	0.00082934
	Copper	133	0.01375	65.1000	6.74	12.23	1.9431048	3.38928734	5.33239214	0.311619	0.00138875	5.65E+00	1.59E-01	2.77E-01	2.55E-02	1.14E-04	*4.62E-01*	0.34419259	0.60036267	0.05519875	0.000246
	Lead	70.7	0.0077	1.0000	6.45	6.43	0.029848	3.244066189	3.273914189	0.1656501	0.0007777	3.44E+00	4.64E-03	5.04E-01	2.57E-02	1.21E-04	*5.35E-01*	0.00867588	0.94294875	0.04814931	0.00022605
	Mercury	1	0.0001475	0.0200	0.04	0.03	0.000597	0.017625355	0.018222315	0.002343	1.4898E-05	2.06E-02	2.32E-02	6.85E-01	9.11E-02	5.79E-04	*8.00E-01*	0.0290065	0.8564224	0.11384722	0.00072387

Table E.1-105. Maximum Exposure Calculations for Muskrat - Station 09

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Arsenic	34.868122	0.01975	2.7000	1.84	0.05	0.0805896	0.924694092	1.005283692	0.041665	0.00199475	1.05E+00	1.47E+00	1.69E+01	7.60E-01	3.64E-02	*1.91E+01*	0.07682931	0.88154812	0.03972089	0.00190168
	Chromium	58.897282	0.0121	2.5000	1.10	7.24	0.07462	0.55379217	0.62841217	0.1379963	0.0012221	7.68E-01	1.03E-02	7.65E-02	1.91E-02	1.69E-04	*1.06E-01*	0.09720821	0.72143055	0.17976919	0.00159204
	Copper	63.10423	0.01375	65.1000	3.20	12.23	1.9431048	1.608108029	3.551212829	0.1478532	0.00138875	3.70E+00	1.59E-01	1.31E-01	1.21E-02	1.14E-04	*3.03E-01*	0.52509892	0.43457038	0.03995542	0.00037529
	Lead	43.611698	0.0077	1.0000	3.98	6.43	0.029848	2.001120741	2.030968741	0.1021822	0.0007777	2.13E+00	4.64E-03	3.11E-01	1.59E-02	1.21E-04	*3.32E-01*	0.01398735	0.93776366	0.04788455	0.00036445
	Mercury	0.3851834	0.0001475	0.0200	0.01	0.03	0.000597	0.006788994	0.007385954	0.0009025	1.4898E-05	8.30E-03	2.32E-02	2.64E-01	3.51E-02	5.79E-04	*3.23E-01*	0.071894	0.81762244	0.10868941	0.00179416

Table E.1-106. Maximum Exposure Calculations for Muskrat - Station 10

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Arsenic	1436.0303	0.04632573	4.4000	75.69	0.05	0.1313312	38.08317435	38.21450555	1.7159557	0.0046789	3.99E+01	2.40E+00	6.95E+02	3.13E+01	8.53E-02	*7.28E+02*	0.00328861	0.95362566	0.04296857	0.00011716
X	Chromium	2319.7299	0.05886398	1.0000	43.35	7.24	0.029848	21.81167282	21.84152082	5.4351271	0.00594526	2.73E+01	4.12E-03	3.01E+00	7.51E-01	8.21E-04	*3.77E+00*	0.00109403	0.79947213	0.19921593	0.00021791
X	Copper	2303.5915	0.07123821	59.6000	116.67	12.23	1.7789408	58.70326042	60.48220122	5.397315	0.00719506	6.59E+01	1.45E-01	4.80E+00	4.41E-01	5.88E-04	*5.39E+00*	0.02699999	0.89097269	0.08191811	0.0001092
X	Lead	814.07364	0.0759	0.5500	74.24	6.43	0.0164164	37.35373074	37.37014714	1.9073745	0.0076659	3.93E+01	2.55E-03	5.81E+00	2.96E-01	1.19E-03	*6.11E+00*	0.00041788	0.95083499	0.048552	0.00019513
X	Mercury	18.748657	0.00060956	0.0000	0.66	0.03	0	0.330451728	0.330451728	0.0439281	6.1566E-05	3.74E-01	0.00E+00	1.28E+01	1.71E+00	2.39E-03	*1.46E+01*	0	0.88251922	0.11731636	0.00016442

Table E.1-107. Maximum Exposure Calculations for Muskrat - Station 11

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Arsenic	473	0.04632573	4.4000	24.93	0.05	0.1313312	12.54384478	12.67517598	0.5652019	0.0046789	1.32E+01	2.40E+00	2.29E+02	1.03E+01	8.53E-02	*2.42E+02*	0.00991549	0.94705859	0.04267267	0.00035326
X	Chromium	900	0.05886398	1.0000	16.82	7.24	0.029848	8.462410143	8.492258143	2.1087	0.00594526	1.06E+01	4.12E-03	1.17E+00	2.91E-01	8.21E-04	*1.47E+00*	0.00281402	0.79782099	0.19880449	0.00056051
X	Copper	402	0.07123821	59.6000	20.36	12.23	1.7789408	10.24431211	12.02325291	0.941886	0.00719506	1.30E+01	1.45E-01	8.37E-01	7.70E-02	5.88E-04	*1.06E+00*	0.13713344	0.78970462	0.07260729	0.00055465
X	Lead	606	0.0759	0.5500	55.26	6.43	0.0164164	27.80628162	27.82269802	1.419858	0.0076659	2.93E+01	2.55E-03	4.32E+00	2.21E-01	1.19E-03	*4.55E+00*	0.00056124	0.95063489	0.04854179	0.00026208
X	Mercury	3.7	0.00060956	0.0000	0.13	0.03	0	0.065213813	0.065213813	0.0086691	6.1566E-05	7.39E-02	0.00E+00	2.53E+00	3.37E-01	2.39E-03	*2.87E+00*	0	0.88192945	0.11723796	0.00083259

Table E.1-108. Maximum Exposure Calculations for Muskrat - Station 12

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Arsenic	3200.0793	0.04632573	4.4000	168.67	0.05	0.1313312	84.86532416	84.99665536	3.8238708	0.0046789	8.88E+01	2.40E+00	1.55E+03	6.97E+01	8.53E-02	*1.62E+03*	0.00147854	0.9554194	0.04304939	5.2675E-05
X	Chromium	1033.1956	0.05886398	1.0000	19.31	7.24	0.029848	9.714805521	9.744653521	2.4207773	0.00594526	1.22E+01	4.12E-03	1.34E+00	3.34E-01	8.21E-04	*1.68E+00*	0.00245231	0.79816821	0.19889101	0.00048846
X	Copper	1401.9034	0.07123821	59.6000	71.00	12.23	1.7789408	35.72521443	37.50415523	3.2846597	0.00719506	4.08E+01	1.45E-01	2.92E+00	2.69E-01	5.88E-04	*3.34E+00*	0.04360575	0.87570364	0.08051424	0.00017637
X	Lead	861.12774	0.0759	0.5500	78.53	6.43	0.0164164	39.51280584	39.52922224	2.0176223	0.0076659	4.16E+01	2.55E-03	6.14E+00	3.14E-01	1.19E-03	*6.46E+00*	0.00039506	0.95086684	0.04855363	0.00018448
X	Mercury	44.8	0.00060956	0.0000	1.57	0.03	0	0.789615898	0.789615898	0.1049664	6.1566E-05	8.95E-01	0.00E+00	3.07E+01	4.08E+00	2.39E-03	*3.48E+01*	0	0.8826036	0.11732758	6.8816E-05

Table E.1-109. Maximum Exposure Calculations for Muskrat - Station 13

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Arsenic	4210	0.04632573	4.4000	221.90	0.05	0.1313312	111.6481745	111.7795057	5.0306553	0.0046789	1.17E+02	2.40E+00	2.04E+03	9.18E+01	8.53E-02	*2.13E+03*	0.00112427	0.95577047	0.04306521	4.0054E-05
X	Chromium	711.2516	0.05886398	1.0000	13.29	7.24	0.029848	6.687669693	6.717517693	1.6664625	0.00594526	8.39E+00	4.12E-03	9.24E-01	2.30E-01	8.21E-04	*1.16E+00*	0.0035576	0.79710717	0.19862661	0.00070862
X	Copper	1780.0133	0.07123821	59.6000	90.15	12.23	1.7789408	45.36072655	47.13966735	4.1705712	0.00719506	5.13E+01	1.45E-01	3.71E+00	3.41E-01	5.88E-04	*4.20E+00*	0.03466543	0.8839243	0.08127007	0.00014021
X	Lead	1147.0018	0.0759	0.5500	104.60	6.43	0.0164164	52.63012315	52.64653955	2.6874252	0.0076659	5.53E+01	2.55E-03	8.18E+00	4.18E-01	1.19E-03	*8.60E+00*	0.00029664	0.9510042	0.04856064	0.00013852
X	Mercury	13.948807	0.00060956	0.0000	0.49	0.03	0	0.245852674	0.245852674	0.0326821	6.1566E-05	2.79E-01	0.00E+00	9.55E+00	1.27E+00	2.39E-03	*1.08E+01*	0	0.88246929	0.11730973	0.00022098

Table E.1-110. Maximum Exposure Calculations for Muskrat - Station 14

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Arsenic	73.4	0.04632573	4.4000	3.87	0.05	0.1313312	1.94655012	2.07788132	0.0877079	0.0046789	2.17E+00	2.40E+00	3.55E+01	1.60E+00	8.53E-02	*3.96E+01*	0.06051381	0.8969169	0.04041338	0.00215591
	Chromium	216	0.05886398	1.0000	4.04	7.24	0.029848	2.030978434	2.060826434	0.506088	0.00594526	2.57E+00	4.12E-03	2.81E-01	6.99E-02	8.21E-04	*3.55E-01*	0.0116011	0.78938562	0.19670253	0.00231076
	Copper	64.9	0.07123821	59.6000	3.29	12.23	1.7789408	1.653870289	3.432811089	0.1520607	0.00719506	3.59E+00	1.45E-01	1.35E-01	1.24E-02	5.88E-04	*2.94E-01*	0.49524156	0.46042303	0.04233237	0.00200304
	Lead	130	0.0759	0.5500	11.86	6.43	0.0164164	5.965043912	5.981460312	0.30459	0.0076659	6.29E+00	2.55E-03	9.27E-01	4.73E-02	1.19E-03	*9.78E-01*	0.00260838	0.94777771	0.04839589	0.00121802
X	Mercury	1.4	0.00060956	0.0000	0.05	0.03	0	0.024675497	0.024675497	0.0032802	6.1566E-05	2.80E-02	0.00E+00	9.59E-01	1.27E-01	2.39E-03	*1.09E+00*	0	0.88072477	0.11707782	0.00219741

Table E.1-111. Maximum Exposure Calculations for Muskrat - Station 15

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Arsenic	193	0.04632573	4.4000	10.17	0.05	0.1313312	5.118312987	5.249644187	0.2306215	0.0046789	5.48E+00	2.40E+00	9.34E+01	4.21E+00	8.53E-02	*1.00E+02*	0.02394394	0.93315674	0.04204628	0.00085304
	Chromium	483.24958	0.05886398	1.0000	9.03	7.24	0.029848	4.543840206	4.573688206	1.1322538	0.00594526	5.71E+00	4.12E-03	6.28E-01	1.56E-01	8.21E-04	*7.89E-01*	0.00522559	0.79550594	0.19822761	0.00104086
X	Copper	469	0.07123821	59.6000	23.75	12.23	1.7789408	11.95169746	13.73063826	1.098867	0.00719506	1.48E+01	1.45E-01	9.77E-01	8.98E-02	5.88E-04	*1.21E+00*	0.11990138	0.80554956	0.07406411	0.00048495
X	Lead	150.60226	0.0759	0.5500	13.73	6.43	0.0164164	6.910377826	6.926794226	0.3528611	0.0076659	7.29E+00	2.55E-03	1.07E+00	5.49E-02	1.19E-03	*1.13E+00*	0.00225273	0.94827408	0.04842124	0.00105195
X	Mercury	1.3	0.00060956	0.0000	0.05	0.03	0	0.022912961	0.022912961	0.0030459	6.1566E-05	2.60E-02	0.00E+00	8.90E-01	1.18E-01	2.39E-03	*1.01E+00*	0	0.88057592	0.11705803	0.00236605

Table E.1-112. Maximum Exposure Calculations for Muskrat - Station 16

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Arsenic	13.6	0.01975	2.7000	0.72	0.05	0.0805896	0.360668687	0.441258287	0.016251	0.00199475	4.60E-01	1.47E+00	6.58E+00	2.96E-01	3.64E-02	*8.38E+00*	0.17538386	0.78490855	0.03536649	0.00434109
	Chromium	38.4	0.0121	2.5000	0.72	7.24	0.07462	0.361062833	0.435682833	0.0899712	0.0012221	5.27E-01	1.03E-02	4.99E-02	1.24E-02	1.69E-04	*7.28E-02*	0.14162722	0.68528979	0.17076348	0.00231952
	Copper	32.5	0.01375	65.1000	1.65	12.23	1.9431048	0.828209312	2.771314112	0.0761475	0.00138875	2.85E+00	1.59E-01	6.77E-02	6.23E-03	1.14E-04	*2.33E-01*	0.68206629	0.29071703	0.0267292	0.00048748
	Lead	15.4	0.0077	1.0000	1.40	6.43	0.029848	0.706628279	0.736476279	0.0360822	0.0007777	7.73E-01	4.64E-03	1.10E-01	5.61E-03	1.21E-04	*1.20E-01*	0.03859641	0.9137401	0.04665785	0.00100564
	Mercury	0.37	0.0001475	0.0200	0.01	0.03	0.000597	0.006521381	0.007118341	0.0008669	1.4898E-05	8.00E-03	2.32E-02	2.53E-01	3.37E-02	5.79E-04	*3.11E-01*	0.07461861	0.8151575	0.10836173	0.00186215

Table E.1-113. Maximum Exposure Calculations for Muskrat - Station 18

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Arsenic	1105.3876	0.04632573	4.4000	58.26	0.05	0.1313312	29.31460972	29.44594092	1.3208608	0.0046789	3.08E+01	2.40E+00	5.35E+02	2.41E+01	8.53E-02	*5.61E+02*	0.00426795	0.95265516	0.04292484	0.00015205
X	Chromium	3018.8869	0.05886398	1.0000	56.42	7.24	0.029848	28.38562155	28.41546955	7.0732521	0.00594526	3.55E+01	4.12E-03	3.92E+00	9.77E-01	8.21E-04	*4.90E+00*	0.00084092	0.79971511	0.19927647	0.0001675
X	Copper	1114.8618	0.07123821	59.6000	56.46	12.23	1.7789408	28.41042885	30.18936965	2.6121212	0.00719506	3.28E+01	1.45E-01	2.32E+00	2.14E-01	5.88E-04	*2.68E+00*	0.05422164	0.8659423	0.07961676	0.0002193
X	Lead	508.93653	0.0759	0.5500	46.41	6.43	0.0164164	23.35252906	23.36894546	1.1924383	0.0076659	2.46E+01	2.55E-03	3.63E+00	1.85E-01	1.19E-03	*3.82E+00*	0.00066817	0.95048565	0.04853416	0.00031201
X	Mercury	5.7642291	0.00060956	0.0000	0.20	0.03	0	0.101596583	0.101596583	0.0135056	6.1566E-05	1.15E-01	0.00E+00	3.95E+00	5.25E-01	2.39E-03	*4.48E+00*	0	0.88219248	0.11727293	0.00053459

Table E.1-114. Maximum Exposure Calculations for Muskrat - Station 19

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Arsenic	4250	0.04632573	4.4000	224.01	0.05	0.1313312	112.7089647	112.8402959	5.0784525	0.0046789	1.18E+02	2.40E+00	2.06E+03	9.26E+01	8.53E-02	*2.15E+03*	0.0011137	0.95578094	0.04306568	3.9677E-05
X	Chromium	2333.0023	0.05886398	1.0000	43.60	7.24	0.029848	21.93646911	21.96631711	5.4662244	0.00594526	2.74E+01	4.12E-03	3.03E+00	7.55E-01	8.21E-04	*3.79E+00*	0.00108782	0.7994781	0.19921741	0.00021668
X	Copper	1296.9484	0.07123821	59.6000	65.69	12.23	1.7789408	33.0506087	34.8295495	3.0387502	0.00719506	3.79E+01	1.45E-01	2.70E+00	2.48E-01	5.88E-04	*3.10E+00*	0.04696812	0.87261193	0.08022998	0.00018997
X	Lead	601.09791	0.0759	0.5500	54.82	6.43	0.0164164	27.58134945	27.59776585	1.4083724	0.0076659	2.90E+01	2.55E-03	4.29E+00	2.19E-01	1.19E-03	*4.51E+00*	0.00056581	0.95062851	0.04854146	0.00026422
X	Mercury	6.1446911	0.00060956	0.0000	0.22	0.03	0	0.108302362	0.108302362	0.014397	6.1566E-05	1.23E-01	0.00E+00	4.21E+00	5.59E-01	2.39E-03	*4.77E+00*	0	0.88222168	0.11727681	0.00050151

Table E.1-115. Maximum Exposure Calculations for Muskrat - Station 20

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 1	Reach 1																	
	Inorganics																				
X	Arsenic	321	0.04632573	4.4000	16.92	0.05	0.1313312	8.512841807	8.644173007	0.3835725	0.0046789	9.03E+00	2.40E+00	1.55E+02	7.00E+00	8.53E-02	*1.65E+02*	0.01453997	0.94247584	0.04246618	0.00051801
X	Chromium	1832.781	0.05886398	1.0000	34.25	7.24	0.029848	17.23304924	17.26289724	4.2942058	0.00594526	2.16E+01	4.12E-03	2.38E+00	5.93E-01	8.21E-04	*2.98E+00*	0.00138422	0.79919355	0.19914651	0.00027572
X	Copper	1075	0.07123821	59.6000	54.45	12.23	1.7789408	27.39461572	29.17355652	2.518725	0.00719506	3.17E+01	1.45E-01	2.24E+00	2.06E-01	5.88E-04	*2.59E+00*	0.05611893	0.86419773	0.07945636	0.00022698
X	Lead	1200	0.0759	0.5500	109.43	6.43	0.0164164	55.0619438	55.0783602	2.8116	0.0076659	5.79E+01	2.55E-03	8.56E+00	4.37E-01	1.19E-03	*9.00E+00*	0.00028354	0.95102248	0.04856158	0.0001324
X	Mercury	3.3	0.00060956	0.0000	0.12	0.03	0	0.058163671	0.058163671	0.0077319	6.1566E-05	6.60E-02	0.00E+00	2.26E+00	3.00E-01	2.39E-03	*2.56E+00*	0	0.88184045	0.11722613	0.00093342

Table E.1-116. Maximum Exposure Calculations for Muskrat - Station 21

		Maximum Concentrations																			
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	248.25722	0.04632573	4.4000	13.08	0.05	0.1313312	6.58372111	6.71505231	0.29665	0.0046789	7.02E+00	2.40E+00	1.20E+02	5.41E+00	8.53E-02	*1.28E+02*	0.0187178	0.93833572	0.04227963	0.00066685
X		Chromium	5033.9072	0.05886398	1.0000	94.07	7.24	0.029848	47.33220857	47.36205657	11.794445	0.00594526	5.92E+01	4.12E-03	6.54E+00	1.63E+00	8.21E-04	*8.17E+00*	0.00050451	0.80003805	0.19935695	0.00010049
X		Copper	600.80892	0.07123821	59.6000	30.43	12.23	1.7789408	15.31063202	17.08957282	1.4076953	0.00719506	1.85E+01	1.45E-01	1.25E+00	1.15E-01	5.88E-04	*1.51E+00*	0.09613577	0.82740212	0.07607328	0.00038883
X		Lead	722	0.0759	0.5500	65.84	6.43	0.0164164	33.12893619	33.14535259	1.691646	0.0076659	3.48E+01	2.55E-03	5.15E+00	2.63E-01	1.19E-03	*5.42E+00*	0.00047113	0.95076066	0.04854821	0.00022
X		Mercury	18.2	0.00060956	0.0000	0.64	0.03	0	0.320781459	0.320781459	0.0426426	6.1566E-05	3.63E-01	0.00E+00	1.25E+01	1.66E+00	2.39E-03	*1.41E+01*	0	0.88251484	0.11731578	0.00016938

Table E.1-117. Maximum Exposure Calculations for Muskrat - Station AM

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach2																	
	Inorganics																				
X	Arsenic	121	0.01975	2.700	6.38	0.05	0.0805896	3.208890525	3.289480125	0.1445865	0.00199475	3.44E+00	1.47E+00	5.85E+01	2.64E+00	3.64E-02	*6.27E+01*	0.02345406	0.93388626	0.04207915	0.00058053
	Chromium	322	0.0121	2.500	6.02	7.24	0.07462	3.027662296	3.102282296	0.754446	0.0012221	3.86E+00	1.03E-02	4.18E-01	1.04E-01	1.69E-04	*5.33E-01*	0.01934188	0.78478518	0.19555617	0.00031677
	Copper	197	0.01375	65.100	9.98	12.23	1.9431048	5.020222601	6.963327401	0.461571	0.00138875	7.43E+00	1.59E-01	4.10E-01	3.77E-02	1.14E-04	*6.07E-01*	0.26165226	0.67600707	0.06215367	0.000187
X	Lead	150	0.0077	1.000	13.68	6.43	0.029848	6.882742976	6.912590976	0.35145	0.0007777	7.26E+00	4.64E-03	1.07E+00	5.46E-02	1.21E-04	*1.13E+00*	0.00410857	0.9474074	0.04837698	0.00010705
X	Mercury	1.9	0.0001475	0	0.07	0.03	0	0.033488174	0.033488174	0.0044517	1.4898E-05	3.80E-02	0.00E+00	1.30E+00	1.73E-01	5.79E-04	*1.47E+00*	0	0.88231789	0.1172896	0.00039251

Table E.1-118. Maximum Exposure Calculations for Muskrat - Station AS

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 3	Reach 3																	
	Inorganics																					
X		Arsenic	121	0	2.100	6.38	0.05	0.0626808	3.208890525	3.271571325	0.1445865	0	3.42E+00	1.14E+00	5.85E+01	2.64E+00	0.00E+00	*6.23E+01*	0.01834833	0.93932736	0.04232431	0
X		Chromium	918	0.0031	1.200	17.16	7.24	0.0358176	8.631658346	8.667475946	2.150874	0.0003131	1.08E+01	4.95E-03	1.19E+00	2.97E-01	4.33E-05	*1.49E+00*	0.00331072	0.79784889	0.19881144	2.8941E-05
X		Copper	576	0.0036	49.500	29.17	12.23	1.477476	14.67841735	16.15589335	1.349568	0.0003636	1.75E+01	1.21E-01	1.20E+00	1.10E-01	2.97E-05	*1.43E+00*	0.08439911	0.83848761	0.07709251	2.077E-05
X		Lead	661	0.0043	1.500	60.28	6.43	0.044772	30.32995405	30.37472605	1.548723	0.0004343	3.19E+01	6.96E-03	4.71E+00	2.41E-01	6.75E-05	*4.96E+00*	0.00140246	0.95007095	0.04851299	1.3604E-05
X		Mercury	3.1	0.00022	0	0.11	0.03	0	0.0546386	0.0546386	0.0072633	0.00002222	6.19E-02	0.00E+00	2.12E+00	2.82E-01	8.63E-04	*2.41E+00*	0	0.88234762	0.11729355	0.00035883

Table E.1-119. Maximum Exposure Calculations for Muskrat - Station BW

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	3036.48489	0.046325726	4.4000	160.04	0.05	0.1313312	80.52683972	80.65817092	3.628386894	0.004678898	8.43E+01	2.40E+00	1.47E+03	6.62E+01	8.53E-02	*1.54E+03*	0.00155806	0.95534059	0.04304584	5.5509E-05
X		Chromium	2034.65106	0.058863979	1.0000	38.02	7.24	0.029848	19.13116866	19.16101666	4.76718744	0.005945262	2.39E+01	4.12E-03	2.64E+00	6.59E-01	8.21E-04	*3.31E+00*	0.00124709	0.7993252	0.19917931	0.0002484
X		Copper	1519.89093	0.071238205	59.6000	76.98	12.23	1.7789408	38.7319331	40.5108739	3.561104459	0.007195059	4.41E+01	1.45E-01	3.17E+00	2.91E-01	5.88E-04	*3.60E+00*	0.04035785	0.8786901	0.08078882	0.00016323
X		Lead	866.179113	0.0759	0.5500	78.99	6.43	0.0164164	39.74458803	39.76100443	2.029457661	0.0076659	4.18E+01	2.55E-03	6.18E+00	3.15E-01	1.19E-03	*6.50E+00*	0.00039275	0.95087005	0.04855379	0.0001834
X		Mercury	15.5414294	0.00060956	0.0000	0.54	0.03	0	0.273923208	0.273923208	0.036413569	6.15655E-05	3.10E-01	0.00E+00	1.06E+01	1.42E+00	2.39E-03	*1.21E+01*	0	0.88248927	0.11731238	0.00019834

Table E.1-120. Maximum Exposure Calculations for Muskrat - Station CB-01

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Arsenic	57.959259	0.01975	2.700	3.05	0.05	0.0805896	1.537065425	1.617655025	0.0692573	0.00199475	1.69E+00	1.47E+00	2.80E+01	1.26E+00	3.64E-02	*3.08E+01*	0.04771701	0.91009475	0.04100715	0.00118109
	Chromium	332.36071	0.0121	2.500	6.21	7.24	0.07462	3.125080701	3.199700701	0.7787211	0.0012221	3.98E+00	1.03E-02	4.32E-01	1.08E-01	1.69E-04	*5.50E-01*	0.01875042	0.78526641	0.19567608	0.00030709
X	Copper	749.36168	0.01375	65.100	37.95	12.23	1.9431048	19.09625603	21.03936083	1.7557544	0.00138875	2.28E+01	1.59E-01	1.56E+00	1.44E-01	1.14E-04	*1.86E+00*	0.08523696	0.83768353	0.07701858	6.0919E-05
X	Lead	443.09295	0.0077	1.000	40.41	6.43	0.029848	20.33129941	20.36114741	1.0381668	0.0007777	2.14E+01	4.64E-03	3.16E+00	1.61E-01	1.21E-04	*3.33E+00*	0.00139476	0.95005664	0.04851226	3.6341E-05
X	Mercury	2.9454641	0.0001475	0	0.10	0.03	0	0.051914851	0.051914851	0.0069012	1.4898E-05	5.88E-02	0.00E+00	2.02E+00	2.68E-01	5.79E-04	*2.29E+00*	0	0.88244083	0.11730594	0.00025323

Table E.1-121. Maximum Exposure Calculations for Muskrat - Station CB-02

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Arsenic	41.453916	0.01975	2.700	2.18	0.05	0.0805896	1.09934775	1.17993735	0.0495345	0.00199475	1.23E+00	1.47E+00	2.01E+01	9.04E-01	3.64E-02	*2.25E+01*	0.06544197	0.8927142	0.04022401	0.00161982
	Chromium	143.57212	0.0121	2.500	2.68	7.24	0.07462	1.349962382	1.424582382	0.3363895	0.0012221	1.76E+00	1.03E-02	1.87E-01	4.65E-02	1.69E-04	*2.43E-01*	0.04234494	0.76606913	0.19089242	0.00069351
	Copper	97.613109	0.01375	65.100	4.94	12.23	1.9431048	2.487510332	4.430615132	0.2287075	0.00138875	4.66E+00	1.59E-01	2.03E-01	1.87E-02	1.14E-04	*3.81E-01*	0.41691163	0.53371902	0.04907137	0.00029797
X	Lead	238.18343	0.0077	1.000	21.72	6.43	0.029848	10.92903548	10.95888348	0.5580638	0.0007777	1.15E+01	4.64E-03	1.70E+00	8.67E-02	1.21E-04	*1.79E+00*	0.00259148	0.94888839	0.0484526	6.7522E-05
	Mercury	0.3279057	0.0001475	0	0.01	0.03	0	0.005779454	0.005779454	0.0007683	1.4898E-05	6.56E-03	0.00E+00	2.25E-01	2.99E-02	5.79E-04	*2.55E-01*	0	0.88066065	0.1170693	0.00227005

Table E.1-122. Maximum Exposure Calculations for Muskrat - Station CB-03

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 2	Reach 2																	
	Inorganics																					
X		Arsenic	594.54754	0.01975	2.700	31.34	0.05	0.0805896	15.76725605	15.84784565	0.7104427	0.00199475	1.66E+01	1.47E+00	2.88E+02	1.30E+01	3.64E-02	*3.02E+02*	0.00486644	0.95211271	0.0429004	0.00012045
X		Chromium	768	0.0121	2.500	14.35	7.24	0.07462	7.221256655	7.295876655	1.799424	0.0012221	9.10E+00	1.03E-02	9.98E-01	2.49E-01	1.69E-04	*1.26E+00*	0.00820313	0.79384803	0.19781449	0.00013435
X		Copper	376.412	0.01375	65.100	19.06	12.23	1.9431048	9.592243757	11.53534856	0.8819333	0.00138875	1.24E+01	1.59E-01	7.84E-01	7.21E-02	1.14E-04	*1.02E+00*	0.15646641	0.77240504	0.07101672	0.00011183
X		Lead	273.84054	0.0077	1.000	24.97	6.43	0.029848	12.56516016	12.59500816	0.6416084	0.0007777	1.32E+01	4.64E-03	1.95E+00	9.97E-02	1.21E-04	*2.06E+00*	0.00225482	0.94921704	0.04846939	5.875E-05
X		Mercury	2.4503493	0.0001475	0	0.09	0.03	0	0.043188276	0.043188276	0.0057412	1.4898E-05	4.89E-02	0.00E+00	1.68E+00	2.23E-01	5.79E-04	*1.90E+00*	0	0.88239568	0.11729994	0.00030438

Table E.1-123. Maximum Exposure Calculations for Muskrat - Station CB-04

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Arsenic	181.6892	0.01975	2.700	9.58	0.05	0.0805896	4.818353222	4.898942822	0.2171059	0.00199475	5.12E+00	1.47E+00	8.79E+01	3.96E+00	3.64E-02	*9.34E+01*	0.01574617	0.94144438	0.0424197	0.00038975
	Chromium	272.3036	0.0121	2.500	5.09	7.24	0.07462	2.560383064	2.635003064	0.6380073	0.0012221	3.27E+00	1.03E-02	3.54E-01	8.82E-02	1.69E-04	*4.52E-01*	0.02279007	0.78197961	0.19485707	0.00037325
	Copper	244.3024	0.01375	65.100	12.37	12.23	1.9431048	6.225646889	8.168751689	0.5724005	0.00138875	8.74E+00	1.59E-01	5.09E-01	4.68E-02	1.14E-04	*7.15E-01*	0.22225859	0.71210955	0.06547302	0.00015885
X	Lead	275.54443	0.0077	1.000	25.13	6.43	0.029848	12.64334317	12.67319117	0.6456006	0.0007777	1.33E+01	4.64E-03	1.97E+00	1.00E-01	1.21E-04	*2.07E+00*	0.00224091	0.94923062	0.04847008	5.8388E-05
	Mercury	1.2104175	0.0001475	0	0.04	0.03	0	0.021334038	0.021334038	0.002836	1.4898E-05	2.42E-02	0.00E+00	8.29E-01	1.10E-01	5.79E-04	*9.40E-01*	0	0.88212064	0.11726338	0.00061598

Table E.1-124. Maximum Exposure Calculations for Muskrat - Station CB-06

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach 2																	
	Inorganics																				
X	Arsenic	139.79044	0.01975	2.700	7.37	0.05	0.0805896	3.707208297	3.787797897	0.1670398	0.00199475	3.96E+00	1.47E+00	6.76E+01	3.05E+00	3.64E-02	*7.22E+01*	0.0203672	0.93691314	0.04221553	0.00050413
	Chromium	497.12688	0.0121	2.500	9.29	7.24	0.07462	4.674323968	4.748943968	1.1647683	0.0012221	5.91E+00	1.03E-02	6.46E-01	1.61E-01	1.69E-04	*8.17E-01*	0.01261552	0.79025796	0.1969199	0.00020661
	Copper	236.03521	0.01375	65.100	11.95	12.23	1.9431048	6.01497103	7.95807583	0.5530305	0.00138875	8.51E+00	1.59E-01	4.92E-01	4.52E-02	1.14E-04	*6.96E-01*	0.22826501	0.70660494	0.06496691	0.00016314
X	Lead	189.34563	0.0077	1.000	17.27	6.43	0.029848	8.688115578	8.717963578	0.4436368	0.0007777	9.16E+00	4.64E-03	1.35E+00	6.90E-02	1.21E-04	*1.42E+00*	0.00325767	0.94823805	0.0484194	8.488E-05
	Mercury	0.3393261	0.0001475	0	0.01	0.03	0	0.005980743	0.005980743	0.000795	1.4898E-05	6.79E-03	0.00E+00	2.32E-01	3.09E-02	5.79E-04	*2.64E-01*	0	0.88072794	0.11707824	0.00219381

Table E.1-125. Maximum Exposure Calculations for Muskrat - Station NRSE

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	214.298441	0.046325726	4.4000	11.30	0.05	0.1313312	5.683142447	5.814473647	0.256071636	0.004678898	6.08E+00	2.40E+00	1.04E+02	4.67E+00	8.53E-02	*1.11E+02*	0.02161751	0.93546218	0.04215015	0.00077016
		Chromium	250.779099	0.058863979	1.0000	4.69	7.24	0.029848	2.357995104	2.387843104	0.58757543	0.005945262	2.98E+00	4.12E-03	3.26E-01	8.12E-02	8.21E-04	*4.12E-01*	0.01001153	0.79091156	0.19708277	0.00199414
		Copper	303.821061	0.071238205	59.6000	15.39	12.23	1.7789408	7.742382533	9.521323333	0.711852747	0.007195059	1.02E+01	1.45E-01	6.33E-01	5.82E-02	5.88E-04	*8.37E-01*	0.17371839	0.75606464	0.06951435	0.00070262
X		Lead	223.913228	0.0759	0.5500	20.42	6.43	0.0164164	10.27424797	10.29066437	0.524628693	0.0076659	1.08E+01	2.55E-03	1.60E+00	8.16E-02	1.19E-03	*1.68E+00*	0.00151681	0.9493012	0.04847368	0.0007083
X		Mercury	4.4975748	0.00060956	0.0000	0.16	0.03	0	0.079271352	0.079271352	0.010537818	6.15655E-05	8.99E-02	0.00E+00	3.08E+00	4.10E-01	2.39E-03	*3.49E+00*	0	0.88205968	0.11725527	0.00068505

Table E.1-126. Maximum Exposure Calculations for Muskrat - Station JY

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	282.324718	0.046325726	4.4000	14.88	0.05	0.1313312	7.487182757	7.618513957	0.337358276	0.004678898	7.96E+00	2.40E+00	1.37E+02	6.15E+00	8.53E-02	*1.45E+02*	0.01649775	0.94053573	0.04237876	0.00058776
X		Chromium	1170.2289	0.058863979	1.0000	21.87	7.24	0.029848	11.0032855	11.0331335	2.741846323	0.005945262	1.38E+01	4.12E-03	1.52E+00	3.79E-01	8.21E-04	*1.90E+00*	0.00216589	0.79844317	0.19895953	0.00043141
X		Copper	501.880046	0.071238205	59.6000	25.42	12.23	1.7789408	12.78959162	14.56853242	1.175904947	0.007195059	1.58E+01	1.45E-01	1.05E+00	9.61E-02	5.88E-04	*1.29E+00*	0.11293692	0.81195341	0.07465289	0.00045678
X		Lead	729.152639	0.0759	0.5500	66.50	6.43	0.0164164	33.45713469	33.47355109	1.708404633	0.0076659	3.52E+01	2.55E-03	5.20E+00	2.66E-01	1.19E-03	*5.47E+00*	0.00046651	0.95076711	0.04854854	0.00021785
X		Mercury	1.81493081	0.00060956	0.0000	0.06	0.03	0	0.0319888	0.0319888	0.004252383	6.15655E-05	3.63E-02	0.00E+00	1.24E+00	1.65E-01	2.39E-03	*1.41E+00*	0	0.88116744	0.11713667	0.00169589

Table E.1-127. Maximum Exposure Calculations for Muskrat - Station KFSE

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach2																	
	Inorganics																				
X	Arsenic	52.128722	0.01975	2.700	2.75	0.05	0.0805896	1.38244101	1.46303061	0.0622902	0.00199475	1.53E+00	1.47E+00	2.52E+01	1.14E+00	3.64E-02	*2.79E+01*	0.05276552	0.90514434	0.04078409	0.00130605
	Chromium	88.575803	0.0121	2.500	1.66	7.24	0.07462	0.832849747	0.907469747	0.2075331	0.0012221	1.12E+00	1.03E-02	1.15E-01	2.87E-02	1.69E-04	*1.54E-01*	0.06685032	0.74613074	0.18592409	0.00109485
	Copper	110.92609	0.01375	65.100	5.62	12.23	1.9431048	2.82676991	4.76987471	0.2598998	0.00138875	5.03E+00	1.59E-01	2.31E-01	2.12E-02	1.14E-04	*4.11E-01*	0.38621382	0.56185215	0.051658	0.00027603
	Lead	129.59614	0.0077	1.000	11.82	6.43	0.029848	5.946512748	5.976360748	0.3036438	0.0007777	6.28E+00	4.64E-03	9.24E-01	4.72E-02	1.21E-04	*9.76E-01*	0.00475227	0.94677901	0.04834489	0.00012382
	Mercury	0.907898	0.0001475	0	0.03	0.03	0	0.016002024	0.016002024	0.0021272	1.4898E-05	1.81E-02	0.00E+00	6.22E-01	8.27E-02	5.79E-04	*7.05E-01*	0	0.88193962	0.11723931	0.00082106

Table E.1-128. Maximum Exposure Calculations for Muskrat - Station LP

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 3	Reach 3																	
	Inorganics																				
X	Arsenic	148.67573	0	2.100	7.84	0.05	0.0626808	3.942844088	4.005524888	0.1776571	0	4.18E+00	1.14E+00	7.19E+01	3.24E+00	0.00E+00	*7.63E+01*	0.014984	0.94254663	0.04246937	0
	Chromium	76.832498	0.0031	1.200	1.44	7.24	0.0358176	0.72243123	0.75824883	0.1800185	0.0003131	9.39E-01	4.95E-03	9.98E-02	2.49E-02	4.33E-05	*1.30E-01*	0.03816146	0.76970622	0.19179873	0.00033359
	Copper	367.41592	0.0036	49.500	18.61	12.23	1.477476	9.362993392	10.84046939	0.8608555	0.0003636	1.17E+01	1.21E-01	7.65E-01	7.04E-02	2.97E-05	*9.57E-01*	0.12626178	0.80014037	0.07356678	3.1072E-05
X	Lead	139.74372	0.0043	1.500	12.74	6.43	0.044772	6.412134115	6.456906115	0.3274195	0.0004343	6.78E+00	6.96E-03	9.97E-01	5.09E-02	6.75E-05	*1.05E+00*	0.00659891	0.94507899	0.04825809	6.4011E-05
	Mercury	0.7280095	0.00022	0	0.03	0.03	0	0.012831425	0.012831425	0.0017057	0.00002222	1.46E-02	0.00E+00	4.99E-01	6.63E-02	8.63E-04	*5.66E-01*	0	0.88131725	0.11715658	0.00152616

Table E.1-129. Maximum Exposure Calculations for Muskrat - Station TT-28

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	987	0.046325726	4.4000	52.02	0.05	0.1313312	26.17499957	26.30633077	1.17939591	0.004678898	2.75E+01	2.40E+00	4.77E+02	2.15E+01	8.53E-02	*5.01E+02*	0.00477735	0.95215036	0.04290209	0.0001702
X		Chromium	4240	0.058863979	1.0000	79.24	7.24	0.029848	39.86735445	39.89720245	9.93432	0.005945262	4.98E+01	4.12E-03	5.51E+00	1.37E+00	8.21E-04	*6.89E+00*	0.00059891	0.79994743	0.19933437	0.00011929
X		Copper	1330	0.071238205	59.6000	67.36	12.23	1.7789408	33.8928734	35.6718142	3.11619	0.007195059	3.88E+01	1.45E-01	2.77E+00	2.55E-01	5.88E-04	*3.17E+00*	0.04585466	0.87363576	0.08032411	0.00018546
X		Lead	657	0.0759	0.5500	59.92	6.43	0.0164164	30.14641423	30.16283063	1.539351	0.0076659	3.17E+01	2.55E-03	4.69E+00	2.39E-01	1.19E-03	*4.93E+00*	0.00051771	0.95069565	0.04854489	0.00024175
X		Mercury	5	0.00060956	0.0000	0.18	0.03	0	0.088126774	0.088126774	0.011715	6.15655E-05	9.99E-02	0.00E+00	3.42E+00	4.55E-01	2.39E-03	*3.88E+00*	0	0.8821204	0.11726335	0.00061625

Table E.1-130. Maximum Exposure Calculations for Muskrat - Station TT-29

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	1050	0.046325726	4.4000	55.34	0.05	0.1313312	27.84574423	27.97707543	1.2546765	0.004678898	2.92E+01	2.40E+00	5.08E+02	2.29E+01	8.53E-02	*5.33E+02*	0.00449204	0.95243309	0.04291483	0.00016004
X		Chromium	5500	0.058863979	1.0000	102.78	7.24	0.029848	51.71472865	51.74457665	12.8865	0.005945262	6.46E+01	4.12E-03	7.15E+00	1.78E+00	8.21E-04	*8.93E+00*	0.00046178	0.80007907	0.19936717	9.1979E-05
X		Copper	1340	0.071238205	59.6000	67.87	12.23	1.7789408	34.14770704	35.92664784	3.13962	0.007195059	3.91E+01	1.45E-01	2.79E+00	2.57E-01	5.88E-04	*3.19E+00*	0.04552811	0.87393603	0.08035172	0.00018414
X		Lead	649	0.0759	0.5500	59.19	6.43	0.0164164	29.77933461	29.79575101	1.520607	0.0076659	3.13E+01	2.55E-03	4.63E+00	2.36E-01	1.19E-03	*4.87E+00*	0.00052408	0.95068675	0.04854443	0.00024473
X		Mercury	13.3	0.00060956	0.0000	0.47	0.03	0	0.23441722	0.23441722	0.0311619	6.15655E-05	2.66E-01	0.00E+00	9.11E+00	1.21E+00	2.39E-03	*1.03E+01*	0	0.88245978	0.11730846	0.00023176

Table E.1-131. Maximum Exposure Calculations for Muskrat - Station TT-30

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach2																	
	Inorganics																				
X	Arsenic	1052.4743	0.01975	2.700	55.47	0.05	0.0805896	27.91136324	27.99195284	1.2576332	0.00199475	2.93E+01	1.47E+00	5.09E+02	2.29E+01	3.64E-02	*5.34E+02*	0.00275505	0.95418307	0.04299368	6.8193E-05
X	Chromium	4813.5968	0.0121	2.500	89.95	7.24	0.07462	45.26070072	45.33532072	11.278257	0.0012221	5.66E+01	1.03E-02	6.25E+00	1.56E+00	1.69E-04	*7.82E+00*	0.00131803	0.79944998	0.19921041	2.1586E-05
X	Copper	3269.3079	0.01375	65.100	165.58	12.23	1.9431048	83.31296074	85.25606554	7.6599883	0.00138875	9.29E+01	1.59E-01	6.81E+00	6.26E-01	1.14E-04	*7.60E+00*	0.02091216	0.89663424	0.08243865	1.4946E-05
X	Lead	640.39345	0.0077	1.000	58.40	6.43	0.029848	29.38442339	29.41427139	1.5004418	0.0007777	3.09E+01	4.64E-03	4.57E+00	2.33E-01	1.21E-04	*4.81E+00*	0.00096547	0.95047572	0.04853366	2.5156E-05
X	Mercury	89.2	0.0001475	0	3.12	0.03	0	1.572181655	1.572181655	0.2089956	1.4898E-05	1.78E+00	0.00E+00	6.11E+01	8.12E+00	5.79E-04	*6.92E+01*	0	0.88265696	0.11733467	8.3638E-06

Table E.1-132. Maximum Exposure Calculations for Muskrat - Station TT-31

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach2																	
	Inorganics																				
X	Arsenic	30.3	0.01975	2.700	1.60	0.05	0.0805896	0.803548619	0.884138219	0.0362064	0.00199475	9.22E-01	1.47E+00	1.47E+01	6.60E-01	3.64E-02	*1.68E+01*	0.08737522	0.87120713	0.03925494	0.00216271
	Chromium	295	0.0121	2.500	5.51	7.24	0.07462	2.773789991	2.848409991	0.691185	0.0012221	3.54E+00	1.03E-02	3.83E-01	9.55E-02	1.69E-04	*4.89E-01*	0.02107423	0.78337568	0.19520494	0.00034515
	Copper	181	0.01375	65.100	9.17	12.23	1.9431048	4.612488786	6.555593586	0.424083	0.00138875	6.98E+00	1.59E-01	3.77E-01	3.47E-02	1.14E-04	*5.71E-01*	0.27833929	0.66071417	0.06074761	0.00019893
X	Lead	332	0.0077	1.000	30.28	6.43	0.029848	15.23380445	15.26365245	0.777876	0.0007777	1.60E+01	4.64E-03	2.37E+00	1.21E-01	1.21E-04	*2.49E+00*	0.00186058	0.9496019	0.04848904	4.8478E-05
X	Mercury	1.8	0.0001475	0	0.06	0.03	0	0.031725639	0.031725639	0.0042174	1.4898E-05	3.60E-02	0.00E+00	1.23E+00	1.64E-01	5.79E-04	*1.40E+00*	0	0.88229865	0.11728704	0.0004143

Table E.1-133. Maximum Exposure Calculations for Muskrat - Station TT-32

	Maximum Concentrations																				
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 2	Reach2																	
	Inorganics																				
X	Arsenic	403	0.01975	2.700	21.24	0.05	0.0805896	10.68746183	10.76805143	0.4815568	0.00199475	1.13E+01	1.47E+00	1.95E+02	8.78E+00	3.64E-02	*2.05E+02*	0.0071625	0.94986126	0.04279895	0.00017729
X	Chromium	699	0.0121	2.500	13.06	7.24	0.07462	6.572471878	6.647091878	1.637757	0.0012221	8.29E+00	1.03E-02	9.08E-01	2.26E-01	1.69E-04	*1.14E+00*	0.00900547	0.79319522	0.19765182	0.00014749
X	Copper	403	0.01375	65.100	20.41	12.23	1.9431048	10.26979547	12.21290027	0.944229	0.00138875	1.32E+01	1.59E-01	8.40E-01	7.72E-02	1.14E-04	*1.08E+00*	0.14766897	0.78046749	0.071758	0.00010554
X	Lead	288	0.0077	1.000	26.26	6.43	0.029848	13.21486651	13.24471451	0.674784	0.0007777	1.39E+01	4.64E-03	2.05E+00	1.05E-01	1.21E-04	*2.16E+00*	0.00214421	0.94932502	0.0484749	5.5868E-05
X	Mercury	4.3	0.0001475	0	0.15	0.03	0	0.075789026	0.075789026	0.0100749	1.4898E-05	8.59E-02	0.00E+00	2.95E+00	3.92E-01	5.79E-04	*3.34E+00*	0	0.88251123	0.1173153	0.00017347

Table E.1-134. Maximum Exposure Calculations for Muskrat - Station TT-33

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 2	Reach2																	
	Inorganics																					
X		Arsenic	288	0.01975	2.700	15.18	0.05	0.0805896	7.637689845	7.718279445	0.3441398	0.00199475	8.06E+00	1.47E+00	1.39E+02	6.28E+00	3.64E-02	*1.47E+02*	0.00999324	0.94708553	0.04267388	0.00024735
X		Chromium	1950.4771	0.0121	2.500	36.45	7.24	0.07462	18.33970797	18.41432797	4.5699678	0.0012221	2.30E+01	1.03E-02	2.53E+00	6.31E-01	1.69E-04	*3.18E+00*	0.00324639	0.797881	0.19881944	5.3168E-05
X		Copper	489	0.01375	65.100	24.77	12.23	1.9431048	12.46136473	14.40446953	1.145727	0.00138875	1.56E+01	1.59E-01	1.02E+00	9.37E-02	1.14E-04	*1.27E+00*	0.12494577	0.80129225	0.07367268	8.93E-05
X		Lead	274.64279	0.0077	1.000	25.05	6.43	0.029848	12.6019716	12.6318196	0.6434881	0.0007777	1.33E+01	4.64E-03	1.96E+00	1.00E-01	1.21E-04	*2.06E+00*	0.00224825	0.94922345	0.04846971	5.8579E-05
X		Mercury	5.4245797	0.0001475	0	0.19	0.03	0	0.095610142	0.095610142	0.0127098	1.4898E-05	1.08E-01	0.00E+00	3.72E+00	4.94E-01	5.79E-04	*4.21E+00*	0	0.88254297	0.11731952	0.00013751

Table E.1-135. Maximum Exposure Calculations for Muskrat - Station UF

	Maximum Concentrations																					
	Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
			Reach 6	Reach 5																	
	Inorganics																				
X	Arsenic	127	0.0048714	0	6.69	0.05	0	3.368009064	3.368009064	0.1517561	0.00049202	3.52E+00	0.00E+00	6.14E+01	2.77E+00	8.97E-03	*6.42E+01*	0	0.95675085	0.04310938	0.00013977
	Chromium	545	0.0033175	0.200	10.18	7.24	0.0059696	5.124459475	5.130429075	1.276935	0.00033506	6.41E+00	8.25E-04	7.08E-01	1.76E-01	4.63E-05	*8.85E-01*	0.00093163	0.79973472	0.19928136	5.2291E-05
X	Copper	553	0.0068	40.550	28.01	12.23	1.2103364	14.09229999	15.30263639	1.295679	0.0006868	1.66E+01	9.89E-02	1.15E+00	1.06E-01	5.61E-05	*1.36E+00*	0.07291621	0.84898477	0.07805764	4.1376E-05
X	Lead	860	0.007092	0.213	78.43	6.43	0.0063427	39.46105973	39.46740243	2.01498	0.00071629	4.15E+01	9.86E-04	6.13E+00	3.13E-01	1.11E-04	*6.45E+00*	0.0001529	0.95125632	0.04857352	1.7267E-05
X	Mercury	2	0.000069	0	0.07	0.03	0	0.03525071	0.03525071	0.004686	6.969E-06	3.99E-02	0.00E+00	1.37E+00	1.82E-01	2.71E-04	*1.55E+00*	0	0.88251035	0.11731518	0.00017447

Table E.1-136. Maximum Exposure Calculations for Muskrat - Station WG

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	262.614483	0.046325726	4.4000	13.84	0.05	0.1313312	6.96447212	7.09580332	0.313805924	0.004678898	7.41E+00	2.40E+00	1.27E+02	5.72E+00	8.53E-02	*1.35E+02*	0.01771326	0.93933119	0.04232448	0.00063107
X		Chromium	929.878287	0.058863979	1.0000	17.38	7.24	0.029848	8.743346048	8.773194048	2.178704825	0.005945262	1.10E+01	4.12E-03	1.21E+00	3.01E-01	8.21E-04	*1.51E+00*	0.00272389	0.7979075	0.19882605	0.00054256
X		Copper	626.935356	0.071238205	59.6000	31.75	12.23	1.7789408	15.97642153	17.75536233	1.468909538	0.007195059	1.92E+01	1.45E-01	1.31E+00	1.20E-01	5.88E-04	*1.57E+00*	0.09250157	0.83074378	0.07638052	0.00037413
X		Lead	520.811167	0.0759	0.5500	47.50	6.43	0.0164164	23.89739599	23.91381239	1.220260564	0.0076659	2.51E+01	2.55E-03	3.71E+00	1.90E-01	1.19E-03	*3.91E+00*	0.00065295	0.95050689	0.04853525	0.00030491
X		Mercury	2.95398618	0.00060956	0.0000	0.10	0.03	0	0.052065055	0.052065055	0.00692119	6.15655E-05	5.90E-02	0.00E+00	2.02E+00	2.69E-01	2.39E-03	*2.29E+00*	0	0.88174404	0.11721332	0.00104264

Table E.1-137. Maximum Exposure Calculations for Muskrat - Station WH

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	424	0.046325726	4.4000	22.35	0.05	0.1313312	11.24437672	11.37570792	0.50665032	0.004678898	1.19E+01	2.40E+00	2.05E+02	9.24E+00	8.53E-02	*2.17E+02*	0.01104827	0.94593603	0.04262209	0.00039361
X		Chromium	837.373887	0.058863979	1.0000	15.65	7.24	0.029848	7.873556969	7.903404969	1.961967016	0.005945262	9.87E+00	4.12E-03	1.09E+00	2.71E-01	8.21E-04	*1.36E+00*	0.00302371	0.79761969	0.19875433	0.00060228
X		Copper	572	0.071238205	59.6000	28.97	12.23	1.7789408	14.5764839	16.3554247	1.340196	0.007195059	1.77E+01	1.45E-01	1.19E+00	1.10E-01	5.88E-04	*1.45E+00*	0.10048914	0.82339918	0.07570524	0.00040644
X		Lead	1850.8782	0.0759	0.5500	168.79	6.43	0.0164164	84.92745937	84.94387577	4.336607614	0.0076659	8.93E+01	2.55E-03	1.32E+01	6.74E-01	1.19E-03	*1.39E+01*	0.00018386	0.9511616	0.04856868	8.5856E-05
		Mercury	0.70259545	0.00060956	0.0000	0.02	0.03	0	0.012383494	0.012383494	0.001646181	6.15655E-05	1.41E-02	0.00E+00	4.81E-01	6.40E-02	2.39E-03	*5.48E-01*	0	0.87880793	0.11682301	0.00436906

Table E.1-138. Maximum Exposure Calculations for Muskrat - Station WS

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	226.437263	0.046325726	4.4000	11.93	0.05	0.1313312	6.005061054	6.136392254	0.270576679	0.004678898	6.41E+00	2.40E+00	1.10E+02	4.94E+00	8.53E-02	*1.17E+02*	0.02048322	0.93658623	0.0422008	0.00072975
X		Chromium	727.893898	0.058863979	1.0000	13.60	7.24	0.029848	6.844151899	6.873999899	1.705455404	0.005945262	8.59E+00	4.12E-03	9.46E-01	2.36E-01	8.21E-04	*1.19E+00*	0.0034766	0.79718492	0.19864599	0.00069249
X		Copper	414.080573	0.071238205	59.6000	20.97	12.23	1.7789408	10.55216575	12.33110655	0.970190783	0.007195059	1.33E+01	1.45E-01	8.63E-01	7.93E-02	5.88E-04	*1.09E+00*	0.1336696	0.79288964	0.07290013	0.00054064
X		Lead	366.801286	0.0759	0.5500	33.45	6.43	0.0164164	16.83065983	16.84707623	0.859415413	0.0076659	1.77E+01	2.55E-03	2.62E+00	1.34E-01	1.19E-03	*2.75E+00*	0.00092674	0.95012477	0.04851574	0.00043276
X		Mercury	1.36646947	0.00060956	0.0000	0.05	0.03	0	0.024084509	0.024084509	0.003201638	6.15655E-05	2.73E-02	0.00E+00	9.36E-01	1.24E-01	2.39E-03	*1.06E+00*	0	0.88067728	0.11707151	0.00225121

Table E.1-139. Maximum Exposure Calculations for Muskrat - Station WW

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Reach 1	Reach 1																	
	Inorganics																					
X		Arsenic	54.6	0.046325726	4.4000	2.88	0.05	0.1313312	1.4479787	1.5793099	0.065243178	0.004678898	1.65E+00	2.40E+00	2.64E+01	1.19E+00	8.53E-02	*3.01E+01*	0.07963173	0.87797152	0.03955973	0.00283702
X		Chromium	15472.3996	0.058863979	1.0000	289.14	7.24	0.029848	145.4819905	145.5118385	36.25183231	0.005945262	1.82E+02	4.12E-03	2.01E+01	5.01E+00	8.21E-04	*2.51E+01*	0.00016421	0.80036473	0.19943835	3.2708E-05
X		Copper	414.61725	0.071238205	59.6000	21.00	12.23	1.7789408	10.56584207	12.34478287	0.971448216	0.007195059	1.33E+01	1.45E-01	8.64E-01	7.94E-02	5.88E-04	*1.09E+00*	0.13351977	0.79302741	0.07291279	0.00054003
X		Lead	347.285088	0.0759	0.5500	31.67	6.43	0.0164164	15.93515998	15.95157638	0.81368896	0.0076659	1.68E+01	2.55E-03	2.48E+00	1.26E-01	1.19E-03	*2.61E+00*	0.00097874	0.95005219	0.04851203	0.00045704
		Mercury	1.19339372	0.00060956	0.0000	0.04	0.03	0	0.021033988	0.021033988	0.002796121	6.15655E-05	2.39E-02	0.00E+00	8.17E-01	1.09E-01	2.39E-03	*9.28E-01*	0	0.88038984	0.1170333	0.00257686

Table E.1-140. Maximum Exposure Calculations for Muskrat - Pond Reference

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Pond Ref	Pond Ref																	
	Inorganics																					
X		Arsenic	18.2874013	0.00115	0.0000	0.96	0.05	0	0.484977429	0.484977429	0.021852164	0.00011615	5.07E-01	0.00E+00	8.85E+00	3.99E-01	2.12E-03	*9.25E+00*	0	0.95666535	0.04310553	0.00022912
		Chromium	86.836256	0	0.1800	1.62	7.24	0.00537264	0.816493348	0.821865988	0.203457348	0	1.03E+00	7.42E-04	1.13E-01	2.81E-02	0.00E+00	*1.42E-01*	0.00523995	0.79632767	0.19843238	0
		Copper	60.8506686	0.0014	21.0000	3.08	12.23	0.626808	1.550679705	2.177487705	0.142573117	0.0001414	2.32E+00	5.12E-02	1.27E-01	1.17E-02	1.16E-05	*1.90E-01*	0.27015231	0.66833817	0.06144857	6.0943E-05
X		Lead	491.355174	0.00115	0.0000	44.81	6.43	0	22.54580914	22.54580914	1.151245172	0.00011615	2.37E+01	0.00E+00	3.50E+00	1.79E-01	1.81E-05	*3.68E+00*	0	0.95141355	0.04858155	4.9014E-06
		Mercury	0.29618025	0.000115	0.0000	0.01	0.03	0	0.005220282	0.005220282	0.00069395	0.000011615	5.93E-03	0.00E+00	2.03E-01	2.70E-02	4.51E-04	*2.30E-01*	0	0.88093427	0.11710567	0.00196006

Table E.1-141. Maximum Exposure Calculations for Muskrat - River Reference

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				River Ref	River Ref																	
	Inorganics																					
X		Arsenic	24.8031387	0.019270225	0.0000	1.31	0.05	0	0.657773198	0.657773198	0.029638015	0.001946293	6.89E-01	0.00E+00	1.20E+01	5.41E-01	3.55E-02	*1.26E+01*	0	0.95418298	0.04299368	0.00282334
		Chromium	512	0.012844476	0.1800	9.57	7.24	0.00537264	4.814171104	4.819543744	1.199616	0.001297292	6.02E+00	7.42E-04	6.65E-01	1.66E-01	1.79E-04	*8.32E-01*	0.0008924	0.79963549	0.19925663	0.00021548
		Copper	344	0.022229555	21.0000	17.42	12.23	0.626808	8.76627703	9.39308503	0.805992	0.002245185	1.02E+01	5.12E-02	7.17E-01	6.59E-02	1.84E-04	*8.34E-01*	0.0614438	0.85932753	0.07900858	0.00022009
X		Lead	224.954707	0.257642406	0.0000	20.51	6.43	0	10.3220362	10.3220362	0.527068879	0.026021883	1.09E+01	0.00E+00	1.60E+00	8.19E-02	4.04E-03	*1.69E+00*	0	0.94914167	0.04846554	0.00239279
		Mercury	0.42343578	9.88935E-05	0.0000	0.01	0.03	0	0.007463206	0.007463206	0.00099211	9.98825E-06	8.47E-03	0.00E+00	2.90E-01	3.86E-02	3.88E-04	*3.29E-01*	0	0.88162289	0.11719721	0.0011799

Table E.1-142. Maximum Exposure Calculations for Muskrat - Wetland Reference

		Maximum Concentrations																				
		Compound	$C_{Sediment}$ (mg/Kg)	C_{Water} (mg/L)	C_{Animal} (mg/Kg)	C_{Plant} (mg/Kg)	TRV mg/Kg day	DOSE animal	DOSE plant	DOSE food (a+p)	DOSE soil/ sediment	DOSE water	Total Dose	HQ animal	HQ plant	HQ soil/ sediment	HQ water	*TOTAL HQ*	% HQ animal	% HQ plant	% HQ soil/ sediment	% HQ water
				Wetland Ref	Wetland Ref																	
	Inorganics																					
X		Arsenic	32.7339343	0.0032	0.0000	1.73	0.05	0	0.868095965	0.868095965	0.03911476	0.0003232	9.08E-01	0.00E+00	1.58E+01	7.13E-01	5.90E-03	*1.66E+01*	0	0.95654382	0.04310005	0.00035613
		Chromium	410	0.00088	0.1800	7.66	7.24	0.00537264	3.855097954	3.860470594	0.96063	0.00008888	4.82E+00	7.42E-04	5.33E-01	1.33E-01	1.23E-05	*6.66E-01*	0.00111438	0.79961553	0.19925166	1.8435E-05
		Copper	93.4582662	0.0039	21.0000	4.73	12.23	0.626808	2.381630967	3.008438967	0.218972718	0.0003939	3.23E+00	5.12E-02	1.95E-01	1.79E-02	3.22E-05	*2.64E-01*	0.19419013	0.73784833	0.0678395	0.00012203
X		Lead	523.525895	0.0063	0.0000	47.74	6.43	0	24.02196117	24.02196117	1.226621172	0.0006363	2.52E+01	0.00E+00	3.73E+00	1.91E-01	9.89E-05	*3.92E+00*	0	0.95139424	0.04858056	2.5201E-05
		Mercury	0.71	0.00013	0.0000	0.02	0.03	0	0.012514002	0.012514002	0.00166353	0.00001313	1.42E-02	0.00E+00	4.86E-01	6.46E-02	5.10E-04	*5.51E-01*	0	0.88184765	0.11722709	0.00092526

Table E.1-143. Summary of Muskrat Station Sediment 95% UCL/Maximum Concentrations[1] for Selected Metals

PARAMETER	station 01	UCL ref	station 02	UCL ref	station 03	UCL ref	station 04	UCL ref	station 05	UCL ref	station 06	UCL ref	station 07	UCL ref	station 08	UCL ref	station 09	UCL ref	station 10	UCL ref	station 11	UCL ref	station 12	UCL ref	station 13	UCL ref
	95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Arsenic	171	*15	56.4	*3	79.34062028	2	121.2731381	2	22.47113923	2	115.4290872	2	80.645325	2	28.9	*1	34.8681216	2	1436.0303	2	473	*1	3200.079324	2	4210	*3
Chromium	66.85482133	13	103	*3	180.4004295	2	337.4527832	2	136.2940101	2	442	*3	239.37056	2	119	*1	58.8972816	2	2319.7299	2	900	*1	1033.195605	2	711.2515964	2
Copper	1250	*15	128	*3	171	*2	433.3722185	2	75.03646204	2	357.4768132	2	230.43242	2	133	*1	63.10423	2	2303.5915	7	402	*1	1401.903422	2	1780.013326	2
Lead	384	*15	357.7861501	2	308.9062807	2	612.080586	2	568.5441386	2	442.4082608	2	340.23995	2	70.7	*1	43.6116985	2	814.07364	2	606	*1	861.1277361	2	1147.001784	2
Mercury	0.63	*15	0.37	*3	0.634645913	2	1.319816807	2	1.030152171	2	3.2	*3	2.4744909	3	1.0	*1	0.38518338	2	18.748657	2	3.7	*1	44.8	*4	13.94880702	2

PARAMETER	station 14	UCL ref	station 15	UCL ref	station 16	UCL ref	station 18	UCL ref	station 19	UCL ref	station 20	UCL ref	station AM	UCL ref	station AS	UCL ref	station KFSE	UCL ref	station LP	UCL ref	station TT-2	UCL ref	station TT-29	UCL ref
	95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Arsenic	73.4	*1	193	*2	13.6	*1	1105.387594	2	4250	*2	321	*2	121	*1	121	*1	52.128722	2	148.67573	6	987	*1	1050	*1
Chromium	216	*1	483.2495845	2	38.4	*1	3018.886932	2	2333.002285	2	1832.780975	2	322	*1	918	*1	88.5758029	2	76.832498	3	4240	*1	5500	*1
Copper	64.9	*1	469	*2	32.5	*1	1114.861816	2	1296.948448	2	1075	*2	197	*1	576	*1	110.926092	2	367.41592	3	1330	*1	1340	*1
Lead	130	*1	150.6022639	2	15.4	*1	508.9365347	2	601.0979101	2	1200	*2	150	*1	661	*1	129.596139	2	139.74372	3	657	*1	649	*1
Mercury	1.4	*1	1.3	*1	0.37	*1	5.764229061	2	6.14469113	2	3.3	*2	1.9	*1	3.1	*1	0.90789796	3	0.7280095	3	5	*1	13.3	*1

PARAMETER	station TT-30	UCL ref	station TT-31	UCL ref	station TT-32	UCL ref	station TT-33	UCL ref	station WW	UCL ref	lake no 03IP	UCL ref	station UF	UCL ref
	95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.		95% UCL/ Max Conc.	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Arsenic	1052.474344	2	30.3	*1	403	*2	288	*2	54.6	*13	18.28740135	3	127	*1
Chromium	4813.596831	2	295	*1	699	*2	1950.477098	2	15472.39962	2	86.83625597	3	545	*1
Copper	3269.307871	2	181	*1	403	*2	489	*2	414.6172498	2	60.8506686	2	553	*1
Lead	640.3934483	2	332	*1	288	*2	274.6427908	2	347.2850875	2	491.3551737	3	860	*1
Mercury	89.2	*3	1.8	*1	4.3	*2	5.424579665	2	1.193393718	2	0.296180247	2	2.0	*1

UCL = Upper Confidence Limit

[1] The lesser value of the maximum detected concentration and the 95% UCL concentration, as used in the maximum exposure case calculations, is provided.

UCL References: * Maximum detected value is shown

1. Sample size too small/not enough distinct values
2. 95% Student's-t UCL
3. 95% Approximate Gamma UCL
4. 95% Adjusted Gamma UCL
5. 95% H-UCL
6. 95% Chebyshev (MVUE) UCL
7. 97.5% Chebyshev (MVUE) UCL
8. 99% Chebyshev (MVUE) UCL
9. 95% CLT UCL
10. 95% Adjusted-CLT UCL
11. 95% Modified-t UCL
12. 95% Jackknife UCL
13. 95% Chebyshev (Mean, Sd) UCL
14. 97.5% Chebyshev (Mean, Sd) UCL
15. 99% Chebyshev (Mean, Sd) UCL
16. 95% Standard Bootstrap UCL
17. 95% Bootstrap-t UCL
18. 95% Hall's Bootstrap UCL
19. 95% Percentile Bootstrap UCL
20. 95% BCA Bootstrap UCL

In the case that the 95% UCL reference displays a "1" indicating that the sample size was too small to calculate a 95% UCL (<4) or did not contain enough distinct observations, the maximum detected concentration, if available, is used in the 95% UCL HQ calculation.