Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

Chemical	95th Percentile Sediment Concentration, Study 20 (mg/kg-wet)					95th Percentile Surface Water Concentration (µg/L)				
	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
Metals										
Aluminum	6927.782	7609.768	5694.273	5660.151	-	3464.15	2364.92	1396.04	1129.29	-
Antimony	0.499	1.017	0.848	0.276	-	1.05	1.05	1.05	7.26	-
Arsenic	5.392	4.206	17.131	6.361	-	2.98	4.93	1.15	1.15	-
Barium	64.654	99.044	103.884	185.084	-	67.32	77.80	104.48	74.29	-
Beryllium	0.340	0.386	0.354	0.432	-	-	-	-	-	-
Cadmium	1.631	1.330	2.961	1.454	-	0.27	0.10	0.34	0.10	-
Chromium	43.866	42.904	107.958	89.468	-	6.39	5.01	3.63	3.98	-
Cobalt	5.351	5.535	4.392	3.788	-	1.87	1.87	1.75	1.16	-
Copper	61.737	39.034	62.104	63.539	-	14.14	11.70	12.67	18.62	-
Iron	12571.852	13949.221	11820.882	10414.292	-	5686.68	4935.41	3354.21	1899.29	-
Lead	58.569	176.144	15135.994	197.251	-	9.78	9.66	9.11	6.76	-
Manganese	222.179	259.934	226.883	207.152	-	103.44	133.56	572.68	163.43	-
Mercury	0.146	0.168	0.633	0.132	-	0.17	0.20	0.17	0.27	-
Methyl Mercury	-	-	-	-	-	-	-	-	-	-
Nickel	26.624	26.521	24.803	12.371	-	9.63	9.14	11.49	7.58	-
Selenium	1.374	0.869	1.637	3.629	-	8.12	8.63	7.94	6.89	-
Silver	0.473	0.705	1.350	7.108	-	-	-	-	-	-
Thallium	3.042	3.385	2.368	4.349	-	3.72	1.60	1.60	1.60	-
Vanadium	15.260	16.745	13.492	16.155	-	8.69	6.68	4.24	3.89	-
Zinc	140.406	165.516	192.507	412.690	-	31.12	26.99	39.28	47.41	-
Conventionals										
Ammonia	-	-	-	-	-	0.30	0.36	5.24	0.42	-
Cyanide	0.140	0.159	0.393	1.867	-	6.61	6.26	19.18	3.99	-
PAHs										
Anthracene	2.567	2.168	3.574	8.868	-	-	-	-	-	-
Benzo[a]anthracene	2.590	2.321	1.228	5.027	-	5.00	5.00	5.00	29.82	-
Benzo[a]pyrene	2.592	2.094	1.055	5.486	-	8.65	5.00	12.13	29.82	-
Benzo[b]fluoranthene	2.534	1.670	1.454	6.251	-	8.65	5.00	12.13	29.82	-
Benzo[g,h,i]perylene	2.587	1.484	3.747	3.845	-	8.65	5.00	12.13	29.82	-
Benzo[k]fluoranthene	2.619	2.243	1.433	6.931	-	8.65	5.00	12.13	29.82	-
Chrysene	2.664	1.730	1.505	7.697	-	5.00	5.00	5.00	29.82	-
Dibenz[a,h]anthracene	2.707	2.348	3.574	8.779	-	8.65	5.00	12.13	29.82	-
Fluoranthene	3.393	3.556	2.795	17.434	-	-	-	-	-	-

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

Chemical	95th Percentile Sediment Concentration, Study 20 (mg/kg-wet)					95th Percentile Surface Water Concentration (µg/L)				
	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
Indeno[1,2,3-cd]pyrene	2.549	2.020	0.985	3.891	-	8.65	5.00	12.13	29.82	-
Phenanthrene	2.706	2.506	3.695	5.997	-	-	-	-	-	-
Pyrene	3.125	2.934	2.414	10.759	-	5.00	5.00	5.00	29.82	-
PCBs										
PCB Aroclor 1242	0.242	1.862	2.210	2.075	-	-	-	-	-	-
PCB Aroclor 1260	0.047	0.069	0.094	0.528	-	-	-	-	-	-
PCB (total)[1]	0.289	1.931	2.304	2.603	-	-	-	-	-	-
Pesticides										
4,4'-DDD (p,p'-)	0.009	0.013	0.030	0.064	-	-	-	-	-	-
4,4'-DDE (p,p'-)	0.009	0.019	0.031	0.035	-	-	-	-	-	-
4,4'-DDT (p,p'-)	0.002	0.002	0.010	0.014	-	-	-	-	-	-
Aldrin	0.008	0.053	0.034	0.009	-	-	-	-	-	-
alpha-Chlordane	0.003	0.004	0.011	0.018	-	-	-	-	-	-
cis-Nonachlor	-	-	-	-	-	-	-	-	-	-
d-BHC	0.001	0.006	0.013	0.001	-	-	-	-	-	-
Dieldrin	0.009	0.018	0.012	0.013	-	-	-	-	-	-
Endosulfan II	0.002	0.011	0.014	0.028	-	-	-	-	-	-
Endrin ketone	0.002	0.004	0.006	0.036	-	-	-	-	-	-
gamma-Chlordane	0.009	0.011	0.013	0.007	-	-	-	-	-	-
[alpha, gamma]Chlordane[2]	0.012	0.015	0.024	0.025	-	-	-	-	-	-
Heptachlor	0.003	0.006	0.003	0.001	-	-	-	-	-	-
Heptachlor epoxide	0.010	0.046	0.027	0.015	-	-	-	-	-	-
Oxychlordane	-	-	-	-	-	-	-	-	-	-
trans-Nonachlor	-	-	-	-	-	-	-	-	-	-
Semivolatile Organics										
1,1'-Biphenyl	-	-	-	-	-	5.00	5.00	5.00	29.82	-
2-Chlorophenol	-	-	-	-	-	5.00	5.00	5.00	29.82	-
2,4,5-Trichlorophenol	-	-	-	-	-	12.50	12.50	12.50	74.56	-
2,4,6-Trichlorophenol	-	-	-	-	-	5.00	5.00	5.00	29.82	-
2,4-Dichlorophenol	-	-	-	-	-	5.00	5.00	5.00	29.82	-
2,4-Dimethylphenol	-	-	-	-	-	5.00	5.00	5.00	29.82	-
2,4-Dinitrophenol	-	-	-	-	-	12.50	12.50	12.50	74.56	-
2-Methylphenol	-	-	-	-	-	5.00	5.00	5.00	29.82	-

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

	95th Percentile Sediment Concentration, Study 20 (mg/kg-wet)					95th Percentile Surface Water Concentration (µg/L)				
Chemical	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
2-Nitrophenol	-	-	-	-	-	5.00	5.00	5.00	29.82	-
3,3'-Dichlorobenzidine	-	-	-	-	-	5.00	5.00	5.00	29.82	-
4,6-Dinitro-2-methylphenol	-	-	-	-	-	12.50	12.50	12.50	74.56	-
4-Chloro-3-methylphenol	-	-	-	-	-	5.00	5.00	5.00	29.82	-
4-Methylphenol	2.668	2.252	3.574	6.251	-	5.00	5.00	5.00	29.82	-
4-Nitrophenol	-	-	-	-	-	12.50	12.50	12.50	74.56	-
bis(2-Ethylhexyl)phthalate	2.559	5.103	3.643	21.002	-	5.00	7.78	7.78	37.75	-
Butylbenzylphthalate	2.668	2.215	3.574	6.251	-	5.00	5.00	5.00	29.82	-
Dimethyl phthalate	-	-	-	-	-	5.00	5.00	5.00	5.00	-
Di-n-octylphthalate	2.668	3.170	3.866	1.950	-	8.65	5.00	12.13	29.82	-
Pentachlorophenol	-	-	-	-	-	12.50	12.50	12.50	74.56	-
Phenol	-	-	-	-	-	5.00	5.00	5.00	29.82	-

[1] - PCB (total) = sum of A1242 and A1260 concentrations

[2] - [alpha, gamma]Chlordane = sum of alpha and gamma Chlordane isomer concentrations

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

Chemical	95th Percentile Tissue Concentration (mg/kg-wet)					(Estimated) 95th Percentile Invertebrate Tissue Concentration (mg/kg-wet)				
	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
Metals										
Aluminum	-	-	-	-	-	-	-	-	-	-
Antimony	-	-	-	-	-	-	-	-	-	-
Arsenic	0.020	0.020	0.069	0.020	0.162	-	-	-	-	-
Barium	-	-	-	-	-	-	-	-	-	-
Beryllium	-	-	-	-	-	-	-	-	-	-
Cadmium	0.013	0.016	0.035	0.029	0.083	-	-	-	-	-
Chromium	-	-	-	-	-	-	-	-	-	-
Cobalt	-	-	-	-	-	-	-	-	-	-
Copper	-	-	-	-	-	-	-	-	-	-
Iron	-	-	-	-	-	-	-	-	-	-
Lead	0.343	0.516	1.314	0.987	2.482	-	-	-	-	-
Manganese	-	-	-	-	-	-	-	-	-	-
Mercury	0.012	0.057	0.039	0.059	0.129	-	-	-	-	-
Methyl Mercury	0.012	0.057	0.039	0.059	0.129	-	-	-	-	-
Nickel	-	-	-	-	-	-	-	-	-	-
Selenium	1.684	0.108	1.887	1.006	1.203	-	-	-	-	-
Silver	-	-	-	-	-	-	-	-	-	-
Thallium	-	-	-	-	-	-	-	-	-	-
Vanadium	-	-	-	-	-	-	-	-	-	-
Zinc	-	-	-	-	-	-	-	-	-	-
Conventionals										
Ammonia	-	-	-	-	-	-	-	-	-	-
Cyanide	-	-	-	-	-	-	-	-	-	-
PAHs										
Anthracene	-	-	-	-	-	0.857	0.790	0.914	1.590	-
Benzo[a]anthracene	-	-	-	-	-	0.776	0.779	0.271	0.850	-
Benzo[a]pyrene	-	-	-	-	-	0.749	0.692	0.232	0.887	-
Benzo[b]fluoranthene	-	-	-	-	-	0.711	0.563	0.315	1.000	-
Benzo[g,h,i]perylene	-	-	-	-	-	0.734	0.468	0.789	0.610	-
Benzo[k]fluoranthene	-	-	-	-	-	0.753	0.749	0.317	1.102	-
Chrysene	-	-	-	-	-	0.803	0.656	0.377	1.291	-
Dibenz[a,h]anthracene	-	-	-	-	-	0.765	0.704	0.755	1.302	-
Fluoranthene	-	-	-	-	-	1.153	1.422	0.633	3.074	-

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

Chemical	95th Percentile Tissue Concentration (mg/kg-wet)					(Estimated) 95th Percentile Invertebrate Tissue Concentration (mg/kg-wet)				
	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
Indeno[1,2,3-cd]pyrene	-	-	-	-	-	0.683	0.595	0.230	0.581	-
Phenanthrene	-	-	-	-	-	0.923	0.953	0.927	1.124	-
Pyrene	-	-	-	-	-	1.056	1.194	0.583	1.946	-
PCBs										
PCB Aroclor 1242	0.956	3.572	3.059	2.939	0.040	0.288	2.308	1.464	1.048	-
PCB Aroclor 1260	0.164	0.561	0.218	0.122	0.055	0.057	0.081	0.072	0.260	-
PCB (total)[1]	1.120	4.133	3.277	3.061	0.095	0.345	2.389	1.536	1.307	-
Pesticides										
4,4'-DDD (p,p'-)	0.030	0.056	0.072	0.081	0.098	0.010	0.015	0.020	0.030	-
4,4'-DDE (p,p'-)	0.084	0.205	0.145	0.120	0.424	0.011	0.021	0.023	0.016	-
4,4'-DDT (p,p'-)	0.005	0.013	0.017	0.027	0.064	0.002	0.003	0.008	0.007	-
Aldrin	0.002	0.002	0.008	0.002	0.008	0.009	0.063	0.027	0.005	-
alpha-Chlordane	0.005	0.010	0.022	0.028	0.037	0.003	0.005	0.008	0.008	-
cis-Nonachlor	0.006	0.006	0.012	0.010	0.015	-	-	-	-	-
d-BHC	-	-	-	-	-	0.001	0.006	0.008	0.000	-
Dieldrin	0.018	0.017	0.023	0.026	0.089	0.010	0.021	0.008	0.007	-
Endosulfan II	-	-	-	-	-	0.002	0.011	0.009	0.013	-
Endrin ketone	-	-	-	-	-	0.002	0.005	0.004	0.017	-
gamma-Chlordane	0.022	0.047	0.055	0.066	0.017	0.010	0.014	0.009	0.003	-
[alpha, gamma]Chlordane[2]	0.026	0.057	0.078	0.094	0.054	0.013	0.019	0.017	0.011	-
Heptachlor	0.002	0.048	0.042	0.002	0.008	0.003	0.006	0.002	0.000	-
Heptachlor epoxide	0.002	0.007	0.008	0.008	0.006	0.012	0.055	0.017	0.008	-
Oxychlordane	0.016	0.033	0.030	0.024	0.014	-	-	-	-	-
trans-Nonachlor	0.012	0.021	0.025	0.030	0.042	-	-	-	-	-
Semivolatile Organics										
1,1'-Biphenyl	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	-	-	-	-	-	-	-	-	-	-

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

Chemical	95th Percentile Tissue Concentration (mg/kg-wet)					(Estimated) 95th Percentile Invertebrate Tissue Concentration (mg/kg-wet)				
	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
2-Nitrophenol	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	-	-	-	-	-	1.130	1.059	1.143	1.457	-
4-Nitrophenol	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	-	-	-	-	-	0.819	2.063	0.893	3.694	-
Butylbenzylphthalate	-	-	-	-	-	0.878	0.788	0.888	1.131	-
Dimethyl phthalate	-	-	-	-	-	-	-	-	-	-
Di-n-octylphthalate	-	-	-	-	-	1.343	1.881	1.477	0.422	-
Pentachlorophenol	-	-	-	-	-	-	-	-	-	-
Phenol	-	-	-	-	-	-	-	-	-	-

[1] - PCB (total) = sum of A1242 and A

[2] - [alpha, gamma]Chlordane = sum o

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

	Acute Wildlife Screening Dose (mg/kg/day)		Hazard Quotients for the Bald Eagle					Hazard Quotients for the Common Tern				
			RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
Chemical	Mammal	Bird	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined
Metals												
Aluminum	46.2	2498.5	3.39E-03	3.70E-03	2.77E-03	2.75E-03	-	1.71E-02	1.87E-02	1.40E-02	1.39E-02	-
Antimony	23.07	-	-	-	-	-	-	-	-	-	-	-
Arsenic	0.62	21	4.27E-04	3.64E-04	1.38E-03	4.82E-04	9.27E-04	2.16E-03	1.83E-03	6.97E-03	2.44E-03	4.69E-03
Barium	25	1254	6.40E-05	9.73E-05	1.03E-04	1.80E-04	-	3.21E-04	4.89E-04	5.15E-04	9.07E-04	-
Beryllium	1.44	-	-	-	-	-	-	-	-	-	-	-
Cadmium	7.66	50.6	6.90E-05	7.08E-05	1.55E-04	1.03E-04	1.97E-04	3.49E-04	3.58E-04	7.84E-04	5.23E-04	9.98E-04
Chromium	16.15	-	-	-	-	-	-	-	-	-	-	-
Cobalt	288.44	-	-	-	-	-	-	-	-	-	-	-
Copper	14.36	1108	6.76E-05	4.28E-05	6.79E-05	6.97E-05	-	3.41E-04	2.16E-04	3.43E-04	3.52E-04	-
Iron	74.91	>2250	6.82E-03	7.55E-03	6.38E-03	5.61E-03	-	3.44E-02	3.81E-02	3.22E-02	2.83E-02	-
Lead	>558.03	128	8.77E-04	2.15E-03	1.44E-01	2.79E-03	2.34E-03	4.44E-03	1.09E-02	7.28E-01	1.41E-02	1.18E-02
Manganese	127.68	-	-	-	-	-	-	-	-	-	-	-
Mercury	9.96	9.6	1.89E-05	2.17E-05	8.01E-05	1.75E-05	-	9.48E-05	1.09E-04	4.05E-04	8.70E-05	-
Methyl Mercury	8.5	10.5	1.38E-04	6.49E-04	4.50E-04	6.73E-04	1.48E-03	7.01E-04	3.29E-03	2.28E-03	3.41E-03	7.49E-03
Nickel	10	-	-	-	-	-	-	-	-	-	-	-
Selenium	1.23	-	-	-	-	-	-	-	-	-	-	-
Silver	6.66	>2250	2.53E-07	3.78E-07	7.23E-07	3.81E-06	-	1.28E-06	1.91E-06	3.66E-06	1.93E-05	-
Thallium	8.74	-	-	-	-	-	-	-	-	-	-	-
Vanadium	6.6	-	-	-	-	-	-	-	-	-	-	-
Zinc	8.74	12.9	1.32E-02	1.55E-02	1.81E-02	3.87E-02	-	6.67E-02	7.85E-02	9.14E-02	1.96E-01	-
			-	-	-	-	-	-	-	-	-	-
Conventionals			-	-	-	-	-	-	-	-	-	-
Ammonia	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide	1.04	2	1.97E-04	2.02E-04	5.62E-04	1.19E-03	-	8.13E-04	8.49E-04	2.32E-03	5.93E-03	-
			-	-	-	-	-	-	-	-	-	-
PAHs			-	-	-	-	-	-	-	-	-	-
Anthracene	>3537.52	50.5	6.13E-05	5.17E-05	8.53E-05	2.12E-04	-	3.10E-04	2.62E-04	4.32E-04	1.07E-03	-
Benzo[a]anthracene	166.47	-	-	-	-	-	-	-	-	-	-	-
Benzo[a]pyrene	166.47	-	-	-	-	-	-	-	-	-	-	-
Benzo[b]fluoranthene	166.47	-	-	-	-	-	-	-	-	-	-	-
Benzo[g,h,i]perylene	-	-	-	-	-	-	-	-	-	-	-	-
Benzo[k]fluoranthene	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	166.47	-	-	-	-	-	-	-	-	-	-	-
Dibenz[a,h]anthracene	166.47	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	796.16	50.5	8.10E-05	8.49E-05	6.67E-05	4.16E-04	-	4.10E-04	4.30E-04	3.38E-04	2.11E-03	-

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

Chemical	Acute Wildlife Screening Dose (mg/kg/day)		Hazard Quotients for the Bald Eagle					Hazard Quotients for the Common Tern				
	Mammal	Bird	RM 0-3.2 Combined	RM 3.2-4.9 Combined	RM 4.9-6.5 Combined	RM 6.5-8.8 Combined	RM >8.8 Combined	RM 0-3.2 Combined	RM 3.2-4.9 Combined	RM 4.9-6.5 Combined	RM 6.5-8.8 Combined	RM >8.8 Combined
Indeno[1,2,3-cd]pyrene	166.47	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	145.66	50.5	6.46E-05	5.98E-05	8.82E-05	1.43E-04	-	3.27E-04	3.03E-04	4.46E-04	7.24E-04	-
Pyrene	166.47	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
PCBs			-	-	-	-	-	-	-	-	-	-
PCB Aroclor 1242	1634.47	150	7.70E-04	2.89E-03	2.48E-03	2.38E-03	3.20E-05	3.90E-03	1.46E-02	1.25E-02	1.20E-02	1.62E-04
PCB Aroclor 1260	499.95	91	2.18E-04	7.44E-04	2.90E-04	1.68E-04	7.34E-05	1.10E-03	3.76E-03	1.47E-03	8.52E-04	3.72E-04
PCB (total)[1]	3.12	29	4.67E-03	1.73E-02	1.37E-02	1.28E-02	3.96E-04	2.36E-02	8.73E-02	6.94E-02	6.49E-02	2.00E-03
			-	-	-	-	-	-	-	-	-	-
Pesticides			-	-	-	-	-	-	-	-	-	-
4,4'-DDD (p,p'-)	47.19	290	1.23E-05	2.34E-05	3.02E-05	3.41E-05	4.07E-05	6.23E-05	1.18E-04	1.53E-04	1.73E-04	2.06E-04
4,4'-DDE (p,p'-)	338.43	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT (p,p'-)	288.44	297.5	1.98E-06	5.41E-06	6.91E-06	1.11E-05	2.61E-05	1.00E-05	2.74E-05	3.50E-05	5.64E-05	1.32E-04
Aldrin	18.84	3.6	7.10E-05	8.66E-05	2.63E-04	7.10E-05	2.66E-04	3.60E-04	4.38E-04	1.33E-03	3.59E-04	1.35E-03
alpha-Chlordane	-	-	-	-	-	-	-	-	-	-	-	-
cis-Nonachlor	-	-	-	-	-	-	-	-	-	-	-	-
d-BHC	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	2.04	11.7	1.83E-04	1.81E-04	2.34E-04	2.73E-04	9.18E-04	9.25E-04	9.18E-04	1.19E-03	1.38E-03	4.64E-03
Endosulfan II	38.46	13.9	1.44E-07	9.11E-07	1.20E-06	2.44E-06	-	7.29E-07	4.61E-06	6.05E-06	1.24E-05	-
Endrin ketone	-	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	-	-	-	-	-	-	-	-	-	-	-	-
[alpha, gamma]Chlordane[2]	31.92	12	2.65E-04	5.74E-04	7.81E-04	9.45E-04	5.41E-04	1.34E-03	2.90E-03	3.95E-03	4.78E-03	2.74E-03
Heptachlor	1.96	47	5.30E-06	1.24E-04	1.09E-04	5.23E-06	2.04E-05	2.68E-05	6.30E-04	5.52E-04	2.65E-05	1.03E-04
Heptachlor epoxide	2.96	-	-	-	-	-	-	-	-	-	-	-
Oxychlordane	-	-	-	-	-	-	-	-	-	-	-	-
trans-Nonachlor	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-
Semivolatile Organics			-	-	-	-	-	-	-	-	-	-
1,1'-Biphenyl	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	72	57	2.97E-06	2.97E-06	2.97E-06	1.77E-05	-	1.02E-05	1.02E-05	1.02E-05	6.10E-05	-
2,4,5-Trichlorophenol	1138.36	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	11.54	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	519.18	-	-	-	-	-	-	-	-	-	-	-

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

	Acute Wildlife Screening Dose (mg/kg/day)		Hazard Quotients for the Bald Eagle					Hazard Quotients for the Common Tern				
			RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
Chemical	Mammal	Bird	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined
2-Nitrophenol	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	1469.1	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	692.24	57	5.94E-05	5.06E-05	7.86E-05	1.50E-04	-	2.96E-04	2.51E-04	3.93E-04	7.30E-04	-
4-Nitrophenol	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	11921.99	-	-	-	-	-	-	-	-	-	-	-
Butylbenzylphthalate	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octylphthalate	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	19.23	314	1.35E-06	1.35E-06	1.35E-06	8.05E-06	-	4.64E-06	4.64E-06	4.64E-06	2.77E-05	-
Phenol	62.43	-	-	-	-	-	-	-	-	-	-	-

[1] - PCB (total) = sum of A1242 and A

[2] - [alpha, gamma]Chlordane = sum o

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

	Hazard Quotients for the Spotted Sandpiper					Hazard Quotients for the Mink				
	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
Chemical	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined
Metals										
Aluminum	9.24E-02	1.01E-01	7.59E-02	7.54E-02	-	6.94E-01	7.60E-01	5.68E-01	5.64E-01	-
Antimony	-	-	-	-	-	1.04E-04	2.06E-04	1.73E-04	8.62E-05	-
Arsenic	8.56E-03	6.70E-03	2.71E-02	1.01E-02	-	4.76E-02	3.92E-02	1.52E-01	5.46E-02	5.97E-02
Barium	1.72E-03	2.64E-03	2.77E-03	4.92E-03	-	1.21E-02	1.85E-02	1.94E-02	3.42E-02	-
Beryllium	-	-	-	-	-	1.08E-03	1.23E-03	1.13E-03	1.37E-03	-
Cadmium	1.07E-03	8.74E-04	1.95E-03	9.56E-04	-	1.35E-03	1.29E-03	2.83E-03	1.73E-03	2.47E-03
Chromium	-	-	-	-	-	1.25E-02	1.22E-02	3.06E-02	2.54E-02	-
Cobalt	-	-	-	-	-	8.56E-05	8.85E-05	7.03E-05	6.05E-05	-
Copper	1.85E-03	1.17E-03	1.87E-03	1.91E-03	-	1.98E-02	1.25E-02	1.99E-02	2.04E-02	-
Iron	1.86E-01	2.06E-01	1.75E-01	1.54E-01	-	7.76E-01	8.59E-01	7.27E-01	6.39E-01	-
Lead	1.52E-02	4.58E-02	3.93E+00	5.12E-02	-	6.23E-04	1.66E-03	1.25E-01	2.03E-03	1.02E-03
Manganese	-	-	-	-	-	8.05E-03	9.43E-03	8.59E-03	7.56E-03	-
Mercury	5.08E-04	5.84E-04	2.20E-03	4.61E-04	-	6.88E-05	7.91E-05	2.93E-04	6.33E-05	-
Methyl Mercury	-	-	-	-	-	3.25E-04	1.52E-03	1.06E-03	1.58E-03	3.47E-03
Nickel	-	-	-	-	-	1.23E-02	1.22E-02	1.15E-02	5.74E-03	-
Selenium	-	-	-	-	-	3.19E-01	2.40E-02	3.58E-01	2.01E-01	2.24E-01
Silver	6.99E-06	1.04E-05	2.00E-05	1.05E-04	-	3.25E-04	4.85E-04	9.29E-04	4.89E-03	-
Thallium	-	-	-	-	-	1.64E-03	1.79E-03	1.26E-03	2.30E-03	-
Vanadium	-	-	-	-	-	1.07E-02	1.17E-02	9.43E-03	1.13E-02	-
Zinc	3.62E-01	4.27E-01	4.97E-01	1.06E+00	-	7.39E-02	8.70E-02	1.01E-01	2.17E-01	-
	-	-	-	-	-	-	-	-	-	-
Conventionals	-	-	-	-	-	-	-	-	-	-
Ammonia	-	-	-	-	-	-	-	-	-	-
Cyanide	2.91E-03	3.18E-03	8.21E-03	3.14E-02	-	1.25E-03	1.30E-03	3.58E-03	8.60E-03	-
	-	-	-	-	-	-	-	-	-	-
PAHs	-	-	-	-	-	-	-	-	-	-
Anthracene	1.74E-02	1.59E-02	1.91E-02	3.49E-02	-	3.32E-06	2.81E-06	4.63E-06	1.15E-05	-
Benzo[a]anthracene	-	-	-	-	-	7.43E-05	6.68E-05	3.68E-05	1.56E-04	-
Benzo[a]pyrene	-	-	-	-	-	7.65E-05	6.06E-05	3.63E-05	1.69E-04	-
Benzo[b]fluoranthene	-	-	-	-	-	7.49E-05	4.90E-05	4.73E-05	1.90E-04	-
Benzo[g,h,i]perylene	-	-	-	-	-	-	-	-	-	-
Benzo[k]fluoranthene	-	-	-	-	-	-	-	-	-	-
Chrysene	-	-	-	-	-	7.63E-05	5.06E-05	4.44E-05	2.30E-04	-
Dibenz[a,h]anthracene	-	-	-	-	-	7.97E-05	6.76E-05	1.06E-04	2.59E-04	-
Fluoranthene	2.33E-02	2.83E-02	1.34E-02	6.77E-02	-	1.95E-05	2.05E-05	1.61E-05	1.00E-04	-

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

	Hazard Quotients for the Spotted Sandpiper					Hazard Quotients for the Mink				
	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
Chemical	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined
Indeno[1,2,3-cd]pyrene	-	-	-	-	-	7.53E-05	5.86E-05	3.44E-05	1.25E-04	-
Phenanthrene	1.87E-02	1.91E-02	1.94E-02	2.45E-02	-	8.51E-05	7.88E-05	1.16E-04	1.89E-04	-
Pyrene	-	-	-	-	-	8.90E-05	8.37E-05	6.94E-05	3.14E-04	-
	-	-	-	-	-	-	-	-	-	-
PCBs	-	-	-	-	-	-	-	-	-	-
PCB Aroclor 1242	1.83E-03	1.46E-02	9.50E-03	6.91E-03	-	1.35E-04	5.06E-04	4.35E-04	4.18E-04	5.58E-06
PCB Aroclor 1260	5.91E-04	8.43E-04	7.70E-04	2.83E-03	-	7.56E-05	2.57E-04	1.01E-04	6.07E-05	2.54E-05
PCB (total)[1]	1.13E-02	7.83E-02	5.16E-02	4.46E-02	-	8.26E-02	3.06E-01	2.44E-01	2.29E-01	6.99E-03
	-	-	-	-	-	-	-	-	-	-
Pesticides	-	-	-	-	-	-	-	-	-	-
4,4'-DDD (p,p'-)	3.29E-05	4.99E-05	6.75E-05	1.02E-04	-	1.44E-04	2.73E-04	3.54E-04	4.01E-04	4.75E-04
4,4'-DDE (p,p'-)	-	-	-	-	-	5.68E-05	1.39E-04	9.85E-05	8.18E-05	2.87E-04
4,4'-DDT (p,p'-)	7.74E-06	8.17E-06	2.46E-05	2.18E-05	-	3.89E-06	1.06E-05	1.36E-05	2.19E-05	5.11E-05
Aldrin	2.46E-03	1.66E-02	7.16E-03	1.39E-03	-	2.68E-05	3.79E-05	9.96E-05	2.69E-05	9.67E-05
alpha-Chlordane	-	-	-	-	-	-	-	-	-	-
cis-Nonachlor	-	-	-	-	-	-	-	-	-	-
d-BHC	-	-	-	-	-	-	-	-	-	-
Dieldrin	8.42E-04	1.68E-03	6.35E-04	5.97E-04	-	2.00E-03	2.00E-03	2.57E-03	2.99E-03	1.00E-02
Endosulfan II	1.66E-04	7.79E-04	6.33E-04	9.56E-04	-	1.98E-07	1.25E-06	1.64E-06	3.36E-06	-
Endrin ketone	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	-	-	-	-	-	-	-	-	-	-
[alpha, gamma]Chlordane[2]	1.04E-03	1.53E-03	1.34E-03	9.40E-04	-	1.90E-04	4.11E-04	5.59E-04	6.77E-04	3.87E-04
Heptachlor	6.03E-05	1.28E-04	4.02E-05	8.63E-06	-	2.44E-04	5.68E-03	4.97E-03	2.40E-04	9.30E-04
Heptachlor epoxide	-	-	-	-	-	1.74E-04	6.15E-04	6.40E-04	6.20E-04	4.92E-04
Oxychlordane	-	-	-	-	-	-	-	-	-	-
trans-Nonachlor	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
Semivolatile Organics	-	-	-	-	-	-	-	-	-	-
1,1'-Biphenyl	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	1.53E-05	1.53E-05	1.53E-05	9.11E-05	-	6.94E-06	6.94E-06	6.94E-06	4.14E-05	-
2,4,5-Trichlorophenol	-	-	-	-	-	1.10E-06	1.10E-06	1.10E-06	6.55E-06	-
2,4,6-Trichlorophenol	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	-	-	-	-	-	1.08E-04	1.08E-04	1.08E-04	6.46E-04	-
2-Methylphenol	-	-	-	-	-	9.63E-07	9.63E-07	9.63E-07	5.74E-06	-

Table C-1. Acute hazard quotients for wildlife receptors in the lower Ottawa River.

	Hazard Quotients for the Spotted Sandpiper					Hazard Quotients for the Mink				
	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8	RM 0-3.2	RM 3.2-4.9	RM 4.9-6.5	RM 6.5-8.8	RM >8.8
Chemical	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined	Combined
2-Nitrophenol	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	-	-	-	-	-	3.40E-07	3.40E-07	3.40E-07	2.03E-06	-
4,6-Dinitro-2-methylphenol	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	1.99E-02	1.85E-02	2.06E-02	2.73E-02	-	1.84E-05	1.56E-05	2.44E-05	4.57E-05	-
4-Nitrophenol	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	-	-	-	-	-	1.03E-06	2.03E-06	1.46E-06	8.38E-06	-
Butylbenzylphthalate	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	-	-	-	-	-	-	-	-	-	-
Di-n-octylphthalate	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	6.93E-06	6.93E-06	6.93E-06	4.13E-05	-	6.50E-05	6.50E-05	6.50E-05	3.88E-04	-
Phenol	-	-	-	-	-	8.01E-06	8.01E-06	8.01E-06	4.78E-05	-

[1] - PCB (total) = sum of A1242 and A

[2] - [alpha, gamma]Chlordane = sum o