

Table D2. PAH concentrations and effect data for exposure to *R.abronius* Halifax harbor (10-day mortality) (Tay et al. 1992)

Concentrations in mg/kg dry wgt															
STATIONS	%TOC	NAPH	ACENY	ACENEN	FLUENE	PHEN	ANTH	FLUOR	PYRENE	B(A)AN	CHRY	B(B)F	B(K)F	B(A)PYR	Total PAH (mg/kg)
WHIDBEY 1	0.232	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
DRAKE	1.134	0	0	0	90	70	30	110	90	50	50	70	30	60	0.7
BEDFORD	1.402	0	0	0	0	0	0	210	130	80	0	0	0	0	0.4
CENT BED 1	1.402	0	0	0	190	1100	370	1200	1100	540	640	660	330	730	6.9
CENT BED 2	1.348	0	0	0	0	0	0	2320	2530	1000	0	960	180	1280	8.3
TUFT C1	1.902	0	0	70	60	230	80	460	430	210	190	360	130	280	2.5
TUFT C2	2.384	0	0	0	0	5060	6990	4490	1960	1160	3480	970	0	1320	25.4
IMPEROYAL	1.270	0	0	0	190	0	0	1130	1450	400	0	510	0	690	4.4
E. PASS	1.188	0	0	0	460	990	410	1300	1100	530	520	1100	600	680	7.7
10% SYDNEY	0.705	65400	0	0	14600	91800	0	74600	61700	24800	4900	19300	10100	20500	387.7
WHIDBEY 2	0.232	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

Toxic Unit

STATIONS	NAPH	ACENY	ACENEN	FLUENE	PHEN	ANTH	FLUOR	PYRENE	B(A)AN	CHRY	B(B)F	B(K)F	B(A)PYR	13 PAH TU	Total PAH TU	% Mortality
WHIDBEY 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.0
DRAKE	0	0	0	0.00225	0.00152	0.00065	0.00197	0.00162	0.00075	0.00074	0.00089	0.00038	0.00076	0.01153	0.03	5.0
BEDFORD	0	0	0	0.00000	0.00000	0.00000	0.00304	0.00190	0.00097	0.00000	0.00000	0.00000	0.00000	0.00591	0.02	7.0
CENT BED 1	0	0	0	0.00384	0.01932	0.00653	0.01739	0.01605	0.00653	0.00771	0.00677	0.00336	0.00743	0.09494	0.26	21.0
CENT BED 2	0	0	0	0.00000	0.00000	0.00000	0.03496	0.03839	0.01257	0.00000	0.01024	0.00191	0.01355	0.11163	0.31	53.0
TUFT C1	0	0	0.0011	0.00089	0.00298	0.00104	0.00491	0.00463	0.00187	0.00169	0.00272	0.00098	0.00210	0.02494	0.07	4.0
TUFT C2	0	0	0	0.00000	0.05226	0.07249	0.03826	0.01682	0.00825	0.02465	0.00585	0.00000	0.00790	0.22648	0.62	77.0
IMPEROYAL	0	0	0	0.00424	0.00000	0.00000	0.01808	0.02336	0.00534	0.00000	0.00577	0.00000	0.00776	0.06454	0.18	56.0
E. PASS	0	0	0	0.01097	0.02053	0.00854	0.02224	0.01895	0.00757	0.00739	0.01332	0.00722	0.00817	0.12490	0.34	4.0
10% SYDNEY	3.664968914	0	0	0.58625	3.20424	0.00000	2.14864	1.78963	0.59608	0.11729	0.39347	0.20460	0.41487	13.12003	36.08	100.0
WHIDBEY 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	3.0

		<i>R. abronius</i> 10-d TLM Endpoint		
Code	PAH	Molecular Weight (g/mol)	log K _{ow}	(µmol/goc)
NAPH	naphthalene	128.17	3.256	19.7
ACENY	acenaphthylene	152.2	3.436	20.1
ACENEN	acenaphthene	154.21	3.878	21.1
FLUENE	fluorene	166.22	3.934	21.2
PHEN	phenanthrene	178.23	4.584	22.8
ANTH	anthracene	178.23	4.546	22.7
FLUOR	fluoranthene	202.26	5.191	24.3
PYRENE	pyrene	202.26	5.126	24.2
B(A)AN	benzo(a)anthracene	228.29	5.744	25.8
CHRY	chrysene	228.29	5.782	25.9
B(B)F	benzo(b)fluoranthene	252.31	6.341	27.6
B(K)F	benzo(k)fluoranthene	252.31	6.4	27.7
B(A)PYR	benzo(a)pyrene	252.31	6.409	27.8