

TABLE 5-4 THEORETICAL BIOACCUMULATION POTENTIAL* FOR PAHs IN TISSUE

Analyte (ug/kg)	Charleston Naval Base			Cooper River Berthing Area			Wando River Berthing Area		Wando River Realignment			REFERENCE
	CNB-01	CNB-02	CNB-03	CPB-01	CPB-02	CPB-03	WDB-01	WDB-02	WDR-01	WDR-02	WDR-03	
%TOC	3.34	6.75	6.18	2.48	1.61	1.1	3.77	1.8	0.91	1.34	1.53	0.56
Acenaphthene	33.5	16.6	18.1	45.2	69.6	101.8	29.7	75.6	123.1	83.6	73.2	200.0
Acenaphylene	57.5	28.4	31.1	77.4	119.3	174.6	50.9	106.7	211.0	143.3	125.5	342.0
Anthracene	4.1	1.7	1.8	4.5	7.0	10.2	3.0	6.2	12.3	8.4	7.3	20.0
Benzo(a)anthracene	9.3	1.3	1.3	2.3	3.4	13.1	1.5	3.1	7.5	4.1	3.6	10.0
Benzo(b)fluoranthene	12.2	2.7	2.7	6.8	16.9	87.3	15.3	191.1	18.5	57.3	20.4	30.0
Benzo(k)fluoranthene	6.2	1.4	1.6	2.8	4.3	9.5	1.8	3.9	7.7	5.1	4.5	12.6
Benzo(a)pyrene	12.7	2.6	2.6	6.1	9.4	17.5	4.0	8.4	16.7	11.3	9.9	27.1
Benzo(g,h,i)perylene	6.7	2.3	2.5	6.1	9.4	13.8	4.0	8.4	16.7	11.3	9.9	27.1
Chrysene	8.4	1.4	2.5	2.9	4.4	130.9	1.9	4.0	7.9	5.3	4.6	12.9
Dibenz(a,h)anthracene	2.4	1.2	1.2	3.2	4.8	7.0	2.0	4.3	8.6	5.7	5.0	14.0
Fluoranthene	9.1	2.6	2.5	6.1	9.4	32.7	4.0	8.4	22.0	11.3	9.9	27.1
Indeno(1,2,3-cd)pyrene	4.8	1.9	2.1	5.2	8.0	11.6	3.4	7.1	14.1	9.6	8.4	22.9
1-Methylnaphthalene	62.3	30.8	33.7	83.9	129.2	189.1	55.2	115.6	228.6	155.2	136.0	371.4
2-Methylnaphthalene	69.5	34.4	37.5	93.6	144.1	210.9	61.5	128.9	255.0	173.1	151.6	414.3
Naphthalene	33.5	16.6	18.1	45.2	69.6	101.8	29.7	62.2	123.1	83.6	73.2	200.0
Fluorene	7.0	3.4	3.8	9.4	14.4	21.1	6.2	12.9	25.5	17.3	15.2	41.4
Phenanthrene	2.0	1.0	1.1	2.7	4.2	8.7	1.8	3.7	7.5	5.0	4.3	12.1
Pyrene	9.6	2.6	2.3	5.8	8.9	40.7	3.8	8.0	26.4	10.8	9.4	25.7

*Values based on concentrations detected in the sediment samples (dry weight) as presented in Table 4-12. For analytes that were not detected, the detection limit was used as the concentration in the sediment to calculate maximum TBP. Values based on 2% lipid content for either *Macoma* or *Neanthes* tissue.

Shaded values represent TBP values in test sediments that exceed the Reference station values.