

**Table B1. Summary of Water Column Literature reviewed**

<b>Reference</b>	<b>Acute Data</b>	<b>Chronic Data</b>	<b>Accepted</b>	<b>Not Accepted</b>	<b>Exposure Concentrations above Solubility</b>	<b>Exposure Concentrations Vary over Time</b>	<b>Exposure Concentrations report as something other than mass/vol</b>
Abernethy et al. 1986	x		x				
Academy of Natural Sciences, 1981	x		x	x			
Al-Yakoob et al. 1996	x	x		x			
Anderson et al. 1974a	x		x <sup>3</sup>	x			
Anderson et al. 1974b	x			x <sup>2</sup>			
Anderson et al. 1977		x	x <sup>1</sup>				
Atienzar et al. 1999	x			x	x		
Barata et al. 2005	x		x				
Barron et al. 1999	x			x			
Basu et al. 2001		x					
Boxall and Maltby, 1997	x			x			x
Battelle Ocean Sciences, 1987	x <sup>1</sup>		x				
Brand et al. 2001		x		x			
Billiard et al. 1999		x		x	x		
Billiard et al. 2002		x		x			
Birge et al., 1982	x			x	x		
Birtwell et al. 1999		x		x			
Black et al. 1983		x	x				
Bobra et al. 1983	x			x			
Boeri, R. 1987	x	x	x				
Boese et al. 1997	x <sup>1</sup>		x				
Brinkworth et al. 2003		x	x				
Brodersen, 1987	x			x			
Brooke, 1994	x		x				
Buccafusco et al. 1981	x		x				
Cairns and Nebeker, 1982	x	x	x				
Caldwell et al. 1977	x	x		x			
Call et al. 1986	x <sup>1</sup>	x	x				
Carls et al. 1999		x	x			x	
Champlin and Poucher, 1992a	x <sup>1</sup>		x				
Champlin and Poucher, 1992b		x <sup>1</sup>	x				
Crider et al. 1982	x		x				
Darville and Wilhm, 1984	x		x				
DeGraeve et al. 1980	x		x				
DeGraeve et al. 1982	x	x	x				
Djomo et al. 2004	x	x		x <sup>7</sup>	x		
Eastman et al. 1984	x		x				
Edmisten and Bantle, 1982	x		x				
Edsall, 1991	x		x				
EG&G Bionomics, 1982	x		x				
Emery and Dillon, 1996		x		x <sup>8</sup>			
European Commission, 2000	x	x	x				

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Abernethy et al. 1986				
Academy of Natural Sciences, 1981				
Al-Yakoob et al. 1996	x			
Anderson et al. 1974a	x		x	
Anderson et al. 1974b			x	
Anderson et al. 1977				
Atienzar et al. 1999				
Barata et al. 2005				
Barron et al. 1999	x			
Basu et al. 2001				x
Boxall and Maltby, 1997				
Battelle Ocean Sciences, 1987				
Brand et al. 2001	x	x		
Billiard et al. 1999				
Billiard et al. 2002				x
Birge et al., 1982				
Birtwell et al. 1999	x	x		
Black et al. 1983				
Bobra et al. 1983	x		x	
Boeri, R. 1987				
Boese et al. 1997				
Brinkworth et al. 2003				
Brodersen, 1987	x	x		
Brooke, 1994				
Buccafusco et al. 1981				
Cairns and Nebeker, 1982				
Caldwell et al. 1977	x			
Call et al. 1986				
Carls et al. 1999				
Champlin and Poucher, 1992a				
Champlin and Poucher, 1992b				
Crider et al. 1982				
Darville and Wilhm, 1984				
DeGraeve et al. 1980				
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Djomo et al. 2004				
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Finger et al. 1985	x <sup>1</sup>		x				
Fink et al. 1995		x		x			
Fragoso et al. 1998		x		x			
Fragoso et al. 1999		x		x			
Geiger et al. 1985	x		x				
Gendusa, 1990	x		x				
Geiger and Buikema, 1981, 1982	x			x	x		
Goddard et al. 1987		x		x	x		
Hall and Oris, 1991		x		x <sup>5</sup>			
Hannah et al. 1982		x	x				
Hargreaves et al. 1982	x			x			
Hawkins et al. 2002		x	x	x	PAH dependent		
Heintz et al. 1999		x	x			x	
Heitmuller et al. 1981	x		x				
Holcombe et al. 1983	x <sup>1</sup>		x				
Hooftman and Ruiter, 1992a,b,c,d		x	x				
Horne and Oblad, 1983	x <sup>1</sup>		x				
Horne et al. 1983	x <sup>1</sup>	x	x				
Hose et al. 1981		x		x	x		
Hose et al. 1982		x		x <sup>4</sup>			
Hose et al. 1983		x		x			
Hose et al. 1984		x	x				
Hose and Puffer, 1984		x					
Hutchinson et al. 1980	x		x				
Incardona et al. 2004		x		x	x		
Incardona et al. 2005		x		x	x	x	
Ireland et al. 1996	x	x		x			
Kennedy, 1990	x		x				
Kiparissis et al. 2003		x	x				
Khan et al. 1994		x		x			x
Kocan et al. 1996	x	x		x			
Korn and Rice, 1981	x			x			
Korn et al. 1979	x <sup>1</sup>		x				
Kuhn and Lussier, 1987	x	x	x				
LeBlanc, 1980	x		x				
Lyons et al. 2002		x		x			
Maclean and Doe, 1989	x		x				
Marine Bioassay Lab, 1981	x		x				
Martinez-Jeronimo et al. 2005	x	x		x			
Marty et al. 1997		x		x		x	
Mattson et al. 1976	x		x				
Mayer et al. 2001	x	x	x				

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Finger et al. 1985				
Fink et al. 1995	x			
Fragoso et al. 1998				x
Fragoso et al. 1999				x
Geiger et al. 1985				
Gendusa, 1990				
Geiger and Buikema, 1981, 1982				
Goddard et al. 1987		x		
Hall and Oris, 1991				
Hannah et al. 1982				
Hargreaves et al. 1982		x		
Hawkins et al. 2002				
Heintz et al. 1999				
Heitmuller et al. 1981				
Holcombe et al. 1983				
Hooftman and Ruiter, 1992a,b,c,d				
Horne and Oblad, 1983				
Horne et al. 1983				
Hose et al. 1981		x		
Hose et al. 1982		x		
Hose et al. 1983		x		
Hose et al. 1984				
Hose and Puffer, 1984		x		
Hutchinson et al. 1980				
Incardona et al. 2004				
Incardona et al. 2005	x			
Ireland et al. 1996	x	x		
Kennedy, 1990				
Kiparissis et al. 2003				
Khan et al. 1994				x
Kocan et al. 1996		x		
Korn and Rice, 1981		x		
Korn et al. 1979	x			
Kuhn and Lussier, 1987				
LeBlanc, 1980				
Lyons et al. 2002		x		
Maclean and Doe, 1989				
Marine Bioassay Lab, 1981				
Martinez-Jeronimo et al. 2005	x		x	
Marty et al. 1997	x	x		
Mattson et al. 1976				
Mayer et al. 2001				

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Middaugh et al. 1988		x	x				
Middaugh et al. 2002		x		x			
Millemann et al. 1984	x		x				
Moles 1998		x	x				
Moles and Rice, 1983	x	x	x				
Moles et al. 1979	x			x			x
Moreau et al. 1999	x		x				
Neff et al. 2000	x			x			
Niederlehner et al. 1998	x	x	x				
Northwestern Aquatic Sciences, 1982	x <sup>1</sup>	x	x				
Oris et al. 1991	x		x				
Ort et al. 1995	x	x		x			x
Ostrander et al. 1988		x		x	x		
Ostrander et al. 1989		x		x	x		
Ostrander et al. 1990		x		x	x		
Ott et al. 1978	x			x			
Ozretich et al. 1997	x		x				
Passino and Smith, 1987	x		x				
Pelletier et al. 1997	x		x				
Pollino and Holdway, 2002				x			
Propst et al. 1997	x			x	x		
Randall and Knopp, 1980	x		x				
Riebell and Percy, 1989	x			x			
Rhodes et al. 2005		x	x				
Rice et al. 1975	x			x			
Rice and Thomas, 1989	x			x			
Rogerson et al. 1983	x		x				
Rossi and Anderson, 1976	x			x			
Rossi and Neff, 1978	x		x				
Rowe et al. 1983 <sup>a</sup>		x					
Rowe et al. 1983 <sup>b</sup>		x		x			
Sanborn and Malins, 1977	x			x			
Shelton et al. 1999	x			x			
Smith and Cameron, 1979		x		x			x
Smith et al. 1988	x		x				
Snell and Moffat, 1992	x	x	x				
Spehar et al. 1999	x <sup>1</sup>	x	x				
States et al. 1982	x <sup>1</sup>	x	x				
Steadman et al. 1991	x	x		x	x <sup>6</sup>		
Stene and Lonning, 1984	x			x			
Stoss and Haines, 1979		x	x				
Struhsaker et al. 1974	x		x				
Suedel and Rogers, 1996	x		x				
Sved et al. 1997		x		x			
Swartz, 1991	x		x				

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Middaugh et al. 1988				
Middaugh et al. 2002	x			
Millemann et al. 1984				
Moles 1998				
Moles and Rice, 1983				
Moles et al. 1979	x	x		
Moreau et al. 1999				
Neff et al. 2000	x		x	
Niederlehner et al. 1998				
Northwestern Aquatic Sciences, 1982				
Oris et al. 1991				
Ort et al. 1995	x	x	x	
Ostrander et al. 1988		x		
Ostrander et al. 1989		x		
Ostrander et al. 1990				
Ott et al. 1978		x		
Ozretich et al. 1997				
Passino and Smith, 1987				
Pelletier et al. 1997				
Pollino and Holdway, 2002	x	x		
Propst et al. 1997				
Randall and Knopp, 1980				
Riebell and Percy, 1989	x	x		
Rhodes et al. 2005				
Rice et al. 1975	x			
Rice and Thomas, 1989		x		
Rogerson et al. 1983				
Rossi and Anderson, 1976	x			
Rossi and Neff, 1978				
Rowe et al. 1983 <sup>a</sup>	x		x	
Rowe et al. 1983 <sup>b</sup>	x		x	
Sanborn and Malins, 1977		x		
Shelton et al. 1999	x			
Smith and Cameron, 1979	x			
Smith et al. 1988				
Snell and Moffat, 1992				
Spehar et al. 1999				
States et al. 1982				
Steadman et al. 1991	x			
Stene and Lonning, 1984		x		
Stoss and Haines, 1979				
Struhsaker et al. 1974				
Suedel and Rogers, 1996				
Sved et al. 1997	x	x		
Swartz, 1991				

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Tatum et al. 1978	x		x				
Thursby et al. 1989a	x		x				
Thursby et al. 1989b	x	x	x				
Thursby, 1991	x	x	x				
Trucco et al. 1983	x		x				
U.S. EPA, 1978	x <sup>1</sup>	x	x				
Verrhiest et al. 2001	x		x				
Vines et al. 2000		x		x			
Ward et al. 1981	x	x	x				
White et al. 1999		x	x				
Winkler et al. 1983		x		x	x		
Woodward et al. 1981	x	x		x			

<sup>1</sup>Not all reported data were accepted; some data were excluded due to exposure concentrations above solubility and/or lack of a CTLBB

<sup>2</sup>Concentrations of PAH in WSF determined via GC; toxicity of WSF determined based on Infared analysis ---> disagreement

<sup>3</sup>Only single exposures were accepted; mixture exposure reported as total hydrocarbons

<sup>4</sup>Toxic effects not observed for all organisms

<sup>5</sup>Observed reduced survivorship under no UV exposure conditions not significantly different than controls

<sup>6</sup>Exposure was to an oil-water dispersion, not a water soluble fraction. Oil droplets were present in exposure.

<sup>7</sup>May also be a phototoxicity issue.

<sup>8</sup>Contaminant exposure via food slurry

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Tatum et al. 1978				
Thursby et al. 1989a				
Thursby et al. 1989b				
Thursby, 1991				
Trucco et al. 1983				
U.S. EPA, 1978				
Verrhiest et al. 2001				
Vines et al. 2000	x	x		
Ward et al. 1981				
White et al. 1999				
Winkler et al. 1983		x		
Woodward et al. 1981	x	x		