COMMISSION
OF THE
EUROPEAN COMMUNITIES

European Cooperation and
Coordination in the Field of
Scientific and Technical Research

EUROCOP-COST
Secretariat

EUCO/MDU/73/76
XII/476/76

COST - PROJECT 64b

ANALYSIS OF ORGANIC MICROPOLLUTANTS IN WATER

MANAGEMENT COMMITTEE

A COMPREHENSIVE LIST OF POLLUTING SUBSTANCES WHICH HAVE BEEN IDENTIFIED IN VARIOUS FRESH WATERS, EFFLUENT DISCHARGES, AQUATIC ANIMALS AND PLANTS, AND BOTTOM SEDIMENTS

SECOND EDITION

1976

A comprehensive list of polluting substances which have been identified in various fresh waters, effluent discharges, aquatic animals and plants, and bottom sediments

compiled

by

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October 1975

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INTRODUCTION

The following list of organic substances present in the environment has been compiled from data contributed by the Laboratories participating in the COST project 64b 'Micropollutants' and from the literature dating from 1960 onwards. However, some important data published prior to that date, have been included especially if there is a scarcity of information available after 1960. The list is not fully comprehensive in certain cases where there is a wealth of repetitive information e.g pesticides and PCBs. Here a representative selection of data has been taken.

The main sub-headings have been listed in order of general toxicity and compounds which could be assigned to several sub-groups have been usually classified in the one at the top of the list. Assignment has been made according to chemical structure, however, in two cases a physical property has been used instead, i.e optical brighteners and surfactants.

In many cases it has been possible to identify positively polluting compounds but not to estimate their concentration in the sample. Data have been recorded in this report even where concentrations have not been measured since identification of pollutants is of great value in itself. Concentrations have been invariably given in g/l for water samples and mg/kg for solid samples using factors of 10^{-3} (mg/l, µg/kg), 10^{-6} (µg/l, ng/kg), etc. for lower concentrations. N.D. (not determined) signifies that the compound is present but a quantitative ostimation is not possible using the method of analysis employed.

No attempt has been made to give the full systematic names of compounds in every case. The name as provided by the contributing laboratory or as abstracted from the literature has been used. Where trade names are more familiar these have been listed. In many cases trivial names or non-systematic names have been used because identification is incomplete. Data relating to groups of compounds rather than individual substances are also reported in several cases.

Where information is available the type of sample under investigation and the location of sampling has been stated by use of appropriate key letters and numbers, (see page vi). Examples include sewage effluent, E.D3, textile mill effluent, E.I14, lowland river waters, SF.RL, etc. An oblique stroke stands for 'receiving' e.g. SF.R/E.18 refers to a river water receiving a petroleum refinery effluent. A hyphen stands for 'in' e.g. S.SD-SF.L refers to a bottom sediment in a lake.

The various analytical techniques employed in the analysis have also been listed where data is available, (see page x). Where data has been abstracted from the literature the appropriate references are given in the bibliography (page 115) and where contributed by a participating laboratory indication has been given by use of key letters (see page v).

Data in the lists which have been collated since the previous edition was published (Oct. 1974) have been denoted by the insertion of an asterisk (*) in the right hand column against each new entry.

KEYS

Contributing Laboratories from COST Project, 64b

CEN	Centre D'Etudes Nucleaire De Grenoble, France.
EAWAG	Eidgenössische Technische Hochschulen, Switzerland.
EPA	Environmental Protection Agency Laboratories, USA.
KK	Kernforschungszentrum Karlsruhe, German Federal Republic.
RID	Rijksinstituut voor Drinkwatervoorziening, The Netherlands.
RIV	Rijksinstituut voor de Volksgezondheid, The Netherlands.
RVA	Royal Veterinary and Agricultural College, Denmark.
SETUDE	Société D'Etudes Pour Le Traitement et L'Utilisation Des Eaux, France.
SLEE	Société Lyonnaise Des Eaux et De L'Eclairage, France.
UNS	University Novi Sad, Yugoslavia.
WRC	Water Research Centre, UK.

Type of sample

SF	Surface waters	
L	Lakes, fjords and reservoirs	
1		Zurich
2		Constance
3		Superior
4		Ukranian reservoirs
5		Russia
6		Michigan
7		Isefjord (Denmark)
8		Clayton Lake (New Mexico)
9		Grand Lake (Ohio)
10		Japan
11		New Zealand
12		Ontario lakes
13		France
14		Great Lakes (USA & Canada)
15		Sweden
16		Ijssel (Netherlands)
LR	Land run-off	
1	from crop spraying	
2	forest spraying	
R	River water	
RL	Lowland rivers	
RU	Upland rivers	
1		Danube (Novi Sad)
2		Essex rivers (U.K.)
3		Kent rivers "
4		Lee "
5		Rhine
6		Thames (U.K.)
7		U.K. rivers
8		Volga
9		Seine
10		Kanawha (W.Virginia)
11		Escambia (Florida)
12		Charles (Boston)
13		Kennet (U.K.)
14		Trent "
15		Pskov region (USSR)
16		Soviet rivers
17		Waal (Netherlands)
18		Japanese rivers
19		Mississippi (USA)
20		Snake River (USA)
21		Colorado River (USA)
22		Red River (USA)
23		Chattahoochee R.(Alabama)
24		Savannah R. (USA)
25		Merrimack R. (Mass)
26		Yakima R. (Washington)
27		Yellowstone R. (Montana)
28		Hudson R. (USA)
29		Missouri R. (USA)
30		Brazos R. (Texas)

31	Rio Grande (Texas)
32	Sacramento R. (California)
33	Columbia R. (Oregon)
34	Connecticut R. (USA)
35	Allegheny R. (USA)
36	Ohio R. (USA)
37	Arkansas R. (USA)
38	Apalachicola R. (USA)
39	R. Meuse (The Netherlands)
40	R. Scheldt (The Netherlands)
41	Potomac R. (USA)
42	Susquehanna R. (USA)
43	Niagara R. (USA)
44	Mohawk R. (USA)
45	Tombigbee R. (Alabama)
46	Black Warrior R. (Alabama)
47	Don (Yorkshire, U.K.)
48	Aire (U.K.)
49	Calder (U.K.)
50	Bain (U.K.)
51	Witham (U.K.)
52	Gt. Ouse (U.K.)
53	Flit (U.K.)
54	Roding (U.K.)
55	Chelmer (U.K.)
56	Milwaukee R.
57	Italian rivers
58	Czechoslovakian rivers
59	USA rivers
60	Illinois rivers
61	Kanses rivers
62	R. Ruhr
63	R. Rhone
64	R. Göta (Sweden)
65	Wabash R. (Indiana)
66	Tamagewa (Japan)
67	Netherlands rivers
68	Maas (Netherlands)
69	Glatt (Switzerland)
70	German rivers
71	Delaware R. (USA)
72	San Francisco Bay streams

Effluent discharges

D		Waste water from various stages of treatment of sewage and industrial wastes.
	1	crude sewage
	2	settled sewage
	3	effluent from a biological treatment plant
	3a	" " an activated sludge plant
	3b	" " a percolating filter
	4	" " an oxidation pond
	5	" " sludge conditioning
	6	chlorinated biologically treated effluent
	7	effluent from physico-chemical treatment
S		Solid wastes from various stages of treatment of sewage and industrial wastes.
	1	digested sludge
	2	activated sludge
	3	humus solids
I		Industrial effluent discharges
	1	from acrylamide manufacture
	2	clay pits
	3	coal washing
	4	herbicide manufacture
	5	paper mills
	6	mothproofing of woollens
	7	water works sludge conditioning
	8	petroleum refining
	9	wood preserving plant
	10	pesticide manufacture
	11	shale refining
	12	coking works
	13	kerosene and paraffin processing
	14	textile finishing
	15	paint manufacture
	16	rubber industry
	17	power station cooling water
	18	nylon production
	19	tar distillation
	20	latex manufacture
	21	dye manufacture
	22	acrylic fibre manufacture
	23	chemical production
	24	explosives manufacture
	25	carpet factory
	26	glass manufacture
	27	metal works
	28	printing works
	29	cement production
	30	fibreglass manufacture
	31	plastics manufacture
	32	clothes production
	33	foundries
	34	die, moulding, stamping and casting
	35	chipboard plant

LF	Landfill leachate	
SB	Subterranean waters	
1		Iowa, USA
2		Germany
3		U.K.
4		Wisconsin wells
5		Michigan wells
6		Switzerland
T	Tap water	
1		New Orleans, USA
2		Czechoslovakia
3		Zurich
4		Germany
5		U.K.
6		The Netherlands
7		USA
8		New Jersey, USA
9		Rome
10		District of Columbia, USA
11		Waterloo, Iowa, USA
12		Cincinnati, USA
RF	Rainfall	
S	Solid samples	
SD	sediments	
F	fish	
A	algae	
P	plankton	
WP	water plants	
PC	polychaetes	
C	crustaceans	
P & B	prosobranches and bivalves	

Analysis and/or estimation:

c	Colorimetric analysis
fp	Fluorescence photometry
glc	Gas liquid chromatography
hplc	High pressure liquid chromatography
ir	Infrared spectroscopy
lc	Liquid chromatography
ms	Mass spectrometry
nmr	Nuclear magnetic resonance
pc	Paper chromatography
sf	Spectrofluorimetry
ssms	Spark source mass spectrometry
tlc	Thin layer chromatography
uv	Ultraviolet spectroscopy
v:f366	'Vitatron' plate scanner: fluorescence detection method at 366 nm.

DATA LIST

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
POLYNUCLEAR AROMATIC HYDROCARBONS AND BENZENE						
Acenaphthene						
	1.7×10^{-6}		SB1		glc ms uv	1
		EPA	E.I8		glc ms	2
	0.2×10^{-3}	"	E.I9		"	"
		"	E.I0		"	"
			SF.L1 & T3	1973	"	123
*	0.3×10^{-6} (max)		SF.R5			141
Acenaphthylene						
	19.3×10^{-6}		SB1		glc ms uv nmr	1
		EPA	E.I8		glc ms	2
Alkyl naphthalenes						
	$<5 \times 10^{-6}$		SB1		ms	1
Anthracene						
	$1.6\text{–}7.0 \times 10^{-6}$		E.I12		lc uv	3
		EAWAG	E.D3	Apr. '74	glc ms	124
			SF.R17	1972	"	29
*	$1.1\text{–}59.7 \times 10^{-9}$		T9	1972–73	tlc	132
*		EAWAG	T3, SB6, SF. R69		glc ms	136
*	1.0×10^{-6} (max)	RID	SF.R5			
*	$<0.1 \times 10^{-6}$	"	T.6			
Anthracene and phenanthrene						
	0.7×10^{-6}	CEN	SF.R	Oct. 1971	glc ms	
		KK	SF.R5	1970/71	"	4
			SF.R12	1971	"	5
1,2-Benzanthracene						
	$0.07\text{–}31.4 \times 10^{-6}$		E.D1	1965–66	lc tlc	143
	$0.23\text{–}6.0 \times 10^{-6}$		E.D2	"	"	"
	$0.05\text{–}0.11 \times 10^{-6}$		E.D3	"	"	"
	0.75 & 1.76		E.S1	"	"	"
	0.23 & 0.67		E.S2	"	"	"
			SF.R5		pe uv	6,7
	$0.4\text{–}10.7 \times 10^{-9}$		T.9	1972–73	tlc	132
3,4-Benzanthracene						
	27×10^{-3}		E.I19			8
	0.6×10^{-3}		E.D3/E.I19			"

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Benzene						
	~0.1 x 10^{-9}		T2		glc ms	9
			SF.L1		"	10
			SF.L1,T3, SB6	1973	"	123
		EAWAG	E.D3	Apr. '74	"	124
		EPA	T1			36
			SF.R5/EI			122
*			SF.R71		glc ms	135
*	5 x 10^{-9}		T.10		"	134
3,4-Benzfluoranthene						
*	4 & 40 x 10^{-6}	WRC	E.D3b	1973	tlc	
			SF.R5		pe uv	6,7
	2.0-6.7x10^{-9}		T4		tlc	11
	0.6-9 x 10^{-9}		SB2		"	"
	12-80 x 10^{-9}	WRC	SF.R6	1973	"	
	5-20 x 10^{-9}	"	SF.R4	"	"	
	3-12 x 10^{-9}	"	T5	"	"	
	1 x 10^{-9}	"	SB3	"	"	
	5-10 x 10^{-9}	"	SF.R13	Nov. '73	"	
	20-25 x 10^{-9}	"	SF.R14	1973	"	
	10 x 10^{-9}	"	E.D3b	Nov. '73	"	
*	0.4-1.9x10^{-9}		T9	1972-73	"	132
*	0.30x10^{-6} (max)	RID	E.D3			
*	96 x 10^{-9} "	"	E.I23			
*	0.21x10^{-6} "	"	SF.R5			
*	1.1x10^{-6} "	"	SF.R39			
*	44 x 10^{-9} "	"	T6			
*	0.46-23.7x10^{-6}		E.D1	1965-66	lc tlc	143
*	0.22-4.8x10^{-6}		E.D2	"	"	"
*	0.04-0.15x10^{-6}		E.D3	"	"	"
*	0.51 & 2.16		E.S1	"	"	"
*	0.60 & 1.14		E.S2	"	"	"
10,11-Benzfluoranthene						
			SF.R5		pe uv	6,7
*	0.27-29.6x10^{-6}		E.D1	1965-66	lc tlc	143
*	0.14-11.6x10^{-6}		E.D2	"	"	"
*	0.02-0.09x10^{-6}		E.D3	"	"	"
*	0.52 & 2.06		E.S1	"	"	"
*	0.23 & 0.82		E.S2	"	"	"
11,12-Benzfluoranthene						
			SF.R5		pe uv	6,7
	0.9-3.4 x 10^{-9}		T4		tlc	11
	0.2-3.5 x 10^{-9}		SB2		"	"

Substance (1)		Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
11,12-Benzfluoranthene		(contd)					
		$4\text{-}12 \times 10^{-9}$	WRC	SF.R6	1973	tlc	
		$<5\text{-}15 \times 10^{-9}$	"	SF.R4	"	"	
		$2\text{-}8 \times 10^{-9}$	"	T5	"	"	
		1×10^{-9}	"	SB3	"	"	
	*	$<2.5\&15 \times 10^{-6}$	"	E.D3b	"	"	
	*	$0.11\text{-}8.1 \times 10^{-6}$		E.D1	1965-66	lc tlc	143
	*	$0.04\text{-}2.2 \times 10^{-6}$		E.D2	"	"	"
	*	$4\text{-}70 \times 10^{-9}$		E.D3	"	"	"
	*	0.36 & 0.67		E.S1	"	"	"
	*	0.15 & 1.27		E.S2	"	"	"
		$4\text{-}5 \times 10^{-9}$	WRC	SF.R13	Nov. '73	tlc	
		$15\text{-}30 \times 10^{-9}$	"	SF.R14	1973	"	
		10×10^{-9}	"	E.D3b	Nov. '73	"	
	*	0.34×10^{-6} (max)	RID	E.D3			
	*	59×10^{-9} "	"	E.I23			
	*	0.23×10^{-6} "	"	SF.R5			
	*	0.22×10^{-6} "	"	SF.R39			
	*	$<5 \times 10^{-9}$	"	T6			
1,12-Benzperylene							
	*	0.81×10^{-6} (max)	RID	E.D3			
	*	0.17×10^{-6} "	"	E.I23			
	*	0.22×10^{-6} "	"	SF.R5			
	*	0.39×10^{-6} "	"	SF.R39			
	*	0.13×10^{-6} "	"	T6			
		$0.14\text{-}0.4 \times 10^{-6}$		E.I12		le uv	3
				SF.R5		pe uv	6,7
		$0.8\text{-}7.1 \times 10^{-9}$		T4		tlc	11
		$0.7\text{-}5 \times 10^{-9}$		SB2		"	"
		$20\text{-}60 \times 10^{-9}$	WRC	SF.R6	1973	"	
		$15\text{-}50 \times 10^{-9}$	"	SF.R4	"	"	
		$3\text{-}12 \times 10^{-9}$	"	T5	"	"	
		2×10^{-9}	"	SB3	"	"	
		$7.5\text{-}10 \times 10^{-9}$	"	SF.R13	Nov. '73	"	
		$20\text{-}50 \times 10^{-9}$	"	SF.R14	1973	"	
		20×10^{-9}	"	E.D3b	Nov. '73	"	
	*	$0.19\text{-}8.7 \times 10^{-6}$		E.D1	1965-66	le tlc	143
	*	$0.07\text{-}1.2 \times 10^{-6}$		E.D2	"	"	"
	*	$0.02\text{-}0.12 \times 10^{-6}$		E.D3	"	"	"
	*	0.52 & 0.69		E.S1	"	"	"
	*	0.20 & 1.22		E.S2	"	"	"
	*	$5 \& 40 \times 10^{-6}$		E.D3b	1973	tlc	
3,4-Benzpyrene							
	*	$0.7\text{-}8.8 \times 10^{-6}$		P-SF.L5			140
	*	$44\text{-}500 \times 10^{-6}$		SD-SF.L5			"
	*	$0.6\text{-}37.8 \times 10^{-6}$		WP-SF.L5			"

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
3,4-Benzpyrene (contd)						
*	up to 19.0 x 10^{-6}		SD-SF.R16			19
*	1.8-5.0x10^{-6}		SD-SF.L5			139
*	5 x 10^{-6}		A-SF.R15			13
*	1-2 x 10^{-6}		SD-SF.R15			"
	10 x 10^{-9}		T		pc uv	7,12
			SF.R5		"	6
	0.1 x 10^{-9}		SF.R8/E.I8			13
	0.01-0.1x10^{-9}		SF.R15			14
	1.7 x 10^{-3}		E.D3/E.I19			8
	0.34-1.0x10^{-6}		E.I12		le uv	3
	30-300 x 10^{-6}		E.D1/I8,11,12]			15
	1 x 10^{-6}		T/E.D1/I8,11,12]			"
	0.5 x 10^{-3}		ED1/I11			16
	130-290x10^{-6}		E.D3/I12			"
	6 x 10^{-3}		E.I13			"
	520-630x10^{-6}		E.I12			"
	8.2-17		SD.R/E.I12			"
	15		SD.R9			"
	15		SD.L2			"
	3-290 x 10^{-6}		E.I12			17
	0.1 x 10^{-3}		E.I11			18
*	0.2-5.5 x 10^{-9}		T9	1972-73	tle	132
*	2-320 x 10^{-6}		E.I11			137
*	6.5-1000 x 10^{-6}		E.I12			"
*	N.D.		E.I8			"
*	0.170 x 10^{-6}		E.D2			"
*	0.001-1.840x10^{-6}		E.D3			"
*	4-13 x 10^{-6}		SF.L5			139
*	78-150 x 10^{-9}		SF.R34			138
*	4 & 60x10^{-6}	WRC	E.D3b	1973	tle	
	40-290x10^{-6}		E.I12			18
	50-500x10^{-9}		E.I8			19
	0.3-8.6x10^{-9}		T4		tle	11
	0.4-5x10^{-9}		SB2		"	"
	16-50 x 10^{-9}	WRC	SF.R6	1973	"	
	10-20 x 10^{-9}	"	SF.R4	"	"	
	5-12 x 10^{-9}	"	T5	"	"	
	6 x 10^{-9}	"	SB3	"	"	
	7.5-10x10^{-9}	"	SF.R13	Nov. '73	"	
	30-50 x 10^{-9}	"	SF.R14	1973	"	
	20 x 10^{-9}	"	E.D3b	Nov. '73	"	
*	0.05-0.11x10^{-6}		SF.R5			137
*	1-40 x 10^{-9}		SF.R70			"
*	0.078-0.150x10^{-6}		SF.R59(one)			138
*	0.05-3.5 x 10^{-6}		SF.R16/E.I8			19
*	0.31 x 10^{-6}	RID	ED.3			
*	81 x 10^{-9}	"	E.I23			
*	0.15 x 10^{-6}	"	SF.R5			
*	1.0 x 10^{-6}	"	SF.R39			
*	5 x 10^{-9}	"	T6			

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
3,4-Benzpyrene (contd)						
*	$0.1-34.5 \times 10^{-6}$		ED1	1965-66	le tlc	143
*	$0.06-1.4 \times 10^{-6}$		ED2	"	"	"
*	$0.01-0.07 \times 10^{-6}$		ED3	"	"	"
*	0.63 & 0.66		E.S1	"	"	"
*	0.12 & 1.33		E.S2	"	"	"
Biphenyl						
		KK	SF.R5	1970/71	glc ms	4
		CEN	SF.R	1972	"	3
		EPA	SF.R/E.I14		"	2
			SF.L1		"	10
			SF.L1 T3,SB6]	1973	"	123
			ED.3		"	133
		EAWAG	E.D3	Apr. '74	"	124
			SF.R25	1972-73	"	68
Bitumen type compounds						
	$0.08-0.1 \times 10^{-3}$		SF.R8			125
Chrysene						
			SF.R5		pc uv	6
			SF.R17	1972	glc ms	29
1,2,5,6-Dibenzanthracene						
			SF.R5		pc uv	6
			SF.R8/E.I8			13
Dimethylnaphthalene isomers						
		KK	SF.R5	1970/71	glc ms	4
			SF.L1		"	10
		EPA	E.I8		"	15
		"	LF/E.I8,15		"	"
			SF.L1,T3,SB6]	1973	"	123
2,6-Dimethylnaphthalene						
	15×10^{-6}	EPA	E.I18		glc ms	2,20
	1.0×10^{-6}	RID	T6			

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
Ethylnaphthalene isomer		EPA	E.I8		glc ms	2,20
Fluoranthene			SF.R5		pc uv	6
	$20-100 \times 10^{-9}$		T4		tlc	11
	$6.5-100 \times 10^{-9}$		SB2		"	"
	0.6×10^{-3}	EPA	E.I9		glc ms	2
			SF.R12	1971	"	5
	$20-70 \times 10^{-9}$	WRC	SF.R6	1973	tlc	
	11×10^{-9}	"	SB3	"	"	
	$15-75 \times 10^{-9}$	"	SF.R4	"	"	
	$20-30 \times 10^{-9}$	"	SF.R13	Nov. '73	"	
	$100-150 \times 10^{-9}$	"	SF.R14	1973	"	
	40×10^{-9}	"	E.D3b	Nov. '73	"	
	1.7×10^{-6}		E.I12		lc uv	3
		EAWAG	E.D3	Apr. '74	glc ms	124
			SF.R17	1972	"	29
*	10×10^{-9}	WRC	E.D3b	June '75	kple fp	
*	$7.2-132.6 \times 10^{-9}$		T9	1972-73	tlc	132
*	0.64×10^{-6} (max)	RID	ED.3			
*	3.4×10^{-6} "	"	SF.R5			
*	2.2×10^{-6} "	"	SF.R39			
*	47×10^{-9} "	"	T6			
*	$0.16-45.3 \times 10^{-6}$		E.D1	1965-66	lc tlc	143
*	$0.84-14.6 \times 10^{-6}$		E.D2	"	"	"
*	$0.118-0.53 \times 10^{-6}$		E.D3	"	"	"
*	3.26 & 4.09		E.S1	"	"	"
*	0.58 & 2.78		E.S2	"	"	"
*	$30 \& 60 \times 10^{-6}$	WRC	E.D3b	1973	tlc	
Fluoranthene and pyrene	0.2×10^{-6}	CEN	SF.R	Oct. '71	glc ms	
Fluorene	0.17×10^{-3}	EPA	E.I9		glc ms	2
		"	E.I8		"	2,20
		EAWAG	E.D3	Apr. '74	"	124
			SF.R17	1972	"	29
*	0.3×10^{-6} (max)		SF.R5			141
Indene	18×10^{-6}		SB1		glc ms uv	1

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Indene (contd)						
			T3 & SF.L1		glc ms	22
	26×10^{-6}	EPA	E.I8		"	2
		"	E.D3a		"	
*	10×10^{-6}	RID	E.I8			142
*	0.1×10^{-6}	"	T6			
Indeno(1,2,3-cd)pyrene						
			SF.R5		pc uv	6
	$0.4\text{-}3.0 \times 10^{-9}$		T4		tlc	11
	$0.2\text{-}5 \times 10^{-9}$		SB2		"	"
	$8\text{-}50 \times 10^{-9}$	WRC	SF.R6	1973	"	
	$5\text{-}20 \times 10^{-9}$	"	SF.R4	"	"	
	$2\text{-}8 \times 10^{-9}$	"	T5	"	"	
	1×10^{-9}	"	SB3	"	"	
	$4\text{-}7.5 \times 10^{-9}$	"	SF.R13	Nov. '73	"	
	$10\text{-}25 \times 10^{-9}$	"	SF.R14	1973	"	
	10×10^{-9}	"	E.D3b	Nov. '73	"	
*	$0.3\text{-}4.8 \times 10^{-9}$		T9	1972-73	"	132
*	0.16×10^{-6}	RID	E.D3			
*	0.15×10^{-6}	"	E.I			
*	0.27×10^{-6}	"	SF.R5			
*	1.4×10^{-6}	"	SF.R39			
*	4×10^{-9}	"	T6			
*	$0.12 - 15.0 \times 10^{-6}$		E.D1	1965-66	lc tlc	143
*	$0.06\text{-}3.0 \times 10^{-6}$		E.D2	"	"	"
*	$0.01\text{-}0.12 \times 10^{-6}$		E.D3	"	"	"
*	0.64 & 0.67		E.S1	"	"	"
*	0.47 & 1.2		E.S2	"	"	"
*	2.5 & 30×10^{-6}	WRC	E.D3b	1973	tlc	

Substance	Concentration (g/l=mg/ml, mg/kg=ppm solid samples)	Notes (see Key)				Reference
		Laboratory	Type of sample	Date of sampling	Analysis and/or Derivation	
Methylbiphenyl isomers		EPA	E.I8		glc ms	2,20
3-Methylbiphenyl		EPA	LF/E.I8,15		glc ms	20
Methylethylnaphthalene isomer		EPA	E.I8		glc ms	2,20
Methylindene	2×10^{-6}	EPA	E.I8		glc ms	2
*	100×10^{-6}	RID	E.I8			142
*	10×10^{-6}	"	SF.R40			
3-Methylindene	3×10^{-6}	EPA	E.I8		glc ms	2
Methylindene isomers	18.8×10^{-6}		SB1		ms	1
Methylnaphthalene isomers			SF.R12	1971	glc ms	5
		KK	SF.R5	1970/71	"	4
		EAWAG	SF.L	1972	"	
		EPA	E.I9		"	2
		"	E.I10		"	"
		"	LF/E.I8,15		"	20
			T3 & SF.L1		"	22
			SF.R5		"	23
*			E.D3		"	133
*			T11	Apr. '72	"	135
1-Methylnaphthalene	11×10^{-6}		SB1		glc ms uv ir	1
			SF.L1		glc ms	10
		EPA	SF.R/E.I14		"	2,20
	$5\text{-}25 \times 10^{-6}$	"	E.I8		"	20
	2×10^{-6}	"	E.I16		"	"
		"	E.I17		"	24
			SF.L1,T3,SB6]	1973	"	123
		EAWAG	E.D3	Apr. '74	"	124
*		"	T3,SB6,SF.R69]		"	136
*	0.1×10^{-3}	RID	E.I8			142
*	0.01×10^{-3}	"	E.I23			
*	0.6×10^{-6}		SF.R5			141

Substance (1)		Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
2-Methylnaphthalene							
	*	0.03×10^{-3}	RID	E.I23			
	*	10×10^{-6}	"	SF.R40			
			EAWAG	SF.L	1972		
				SF.L1		glc ms	10
		$13-30 \times 10^{-6}$	EPA	E.I8		"	2,20
			"	E.I17		"	24
				SF.L1,T3,SB6]	1973	"	123
		1.4×10^{-6}	EAWAG	E.D3	Apr. '74	"	124
	*		"	T3,SB6,SF.R69]		"	136
Methylphenanthrene							
			EPA	E.I9		glc ms	2
			EAWAG	E.D3	Apr. '74	"	124
Naphthalene							
			EAWAG	SF.L	1972		
			KK	SF.R5	1970/71	glc ms	4
				SB1		ms	1
		10×10^{-6}		SF.R10		glc ir	25
				T3 & SF.L1		glc ms	22
				SF.L1		"	10
			EPA	E.I18		"	2
		53×10^{-6}	"	E.I8		"	2,20
			"	E.I10		"	2
			"	SF.R11		"	20
				SF.R5		"	23
		$0.1-3.4 \times 10^{-6}$		SF.R12	1971	hplc	5
			EAWAG	E.D3	Apr. '74	glc ms	124
				SF.R5/E.I			122
				SF.R17	1972	glc ms	29
	*			E.D3		"	133
	*	1×10^{-9}		T10		"	134
	*			T11	Apr. '72	"	135
	*		EAWAG	T3,SB6,SF.R69]		"	136
	*	1.0×10^{-3}	RID	E.I8			142
	*	3.0×10^{-6} (max)	"	SF.R5			"
	*	0.1×10^{-6}	"	T6			
Perylene	*	$0.1-1.4 \times 10^{-9}$		T9	1972-73	tlc	132
	*	$0.03-3.0 \times 10^{-6}$		E.D1	1965-66	le tlc	143

Substance (1)		Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
Phenanthrene							
		1.4×10^{-3}	EPA	E.I9		glc ms	2
			EAWAG	E.D3	Apr. '74	"	124
				SF.R17	1972	"	29
	*		EAWAG	T3, SB6, SF.R69]		"	136
	*	0.5×10^{-6}	RID	SF.R5			
Pyrene							
			CEN	SF.R	1970	glc ms	
			EPA	E.I9		"	2
				SF.R12	1971	"	5
		$0.43\text{–}1.55 \times 10^{-9}$		E.D1		lc uv	3
		$0.23\text{–}1.25 \times 10^{-9}$		E.D3a		"	"
		0.45×10^{-9}		E.D3b		"	"
		$2.7\text{–}7.0 \times 10^{-6}$		E.I12		"	"
			EAWAG	E.D3	Apr. '74	glc ms	124
				SF.R17	1972	"	29
	*	$2.0\text{–}25.1 \times 10^{-9}$		T9	1972–73	tlc	132
	*		EAWAG	T3, SB6, SF.R69]		glc ms	136
	*	0.1×10^{-6}	RID	SF.R5			141
	*	0.1×10^{-6}	"	SF.R39			
	*	$0.98\text{–}11.8 \times 10^{-6}$		E.D1	1965–66	lc tlc	143
	*	$0.35\text{–}2.3 \times 10^{-6}$		E.D2	"	"	"
	*	$0.04\text{–}0.34 \times 10^{-6}$		E.D3	"	"	"
	*	1.29 & 3.08		E.S1	"	"	"
	*	0.57 & 1.22		E.S2	"	"	"

Substance	Concentration (g/l-mixture, mg/kg-solid sample)	Notes (see Key)				Reference
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Pyrene and fluoranthene	0.2×10^{-6}	CEN	SF.R	Oct 1971	glc ms	
o-Terphenyl			T3 & SF.L1		glc ms	22
Tetramethylnaphthalene		KK	SF.R5	1970/71	glc ms	4
Total PAH						
	$<10 \times 10^{-9}$	WRC	E.D3b	Jan 1972	hplc	
	50×10^{-9}		SB2		tlc	11
	$0.1\text{-}1.3 \times 10^{-6}$		SF.R5		"	11,21
	$\sim 100 \times 10^{-9}$		T4		"	11
	130×10^{-6}		E.D3		"	"
	$<1\text{-}2 \times 10^{-3}$		SD.R15			14
	$<5 \times 10^{-3}$		A.R15			"
	$1\text{-}10 \times 10^{-9}$		SB2			21
(normal waters)	$25\text{-}100 \times 10^{-9}$		SF			"
(badly polluted waters)	$0.10\text{-}1.30 \times 10^{-6}$		SF			"
(carcinogenic)	* 3.0×10^{-6}		E.D2			137
"	* $0.1\text{-}37.9 \times 10^{-6}$		E.D3			"
	* 15.0×10^{-6}		E.D2			"
	* $0.5\text{-}87.5 \times 10^{-6}$		E.D3			"
(carcinogenic)	* $0.01\text{-}0.73 \times 10^{-6}$		SF.R5			"
"	* $0.04\text{-}1.30 \times 10^{-6}$		SF.R70			"
	* $0.73\text{-}1.50 \times 10^{-6}$		SF.R5			"
	* $0.12\text{-}3.1 \times 10^{-6}$		SF.R70			"
	* $3.21\text{-}301.1 \times 10^{-6}$		E.D1	1965-67	le tle	143
	* $3.18\text{-}67.1 \times 10^{-6}$		E.D2	"	"	"
	* $0.62\text{-}1.18 \times 10^{-6}$		E.D3	"	"	"
(carcinogenic)	* $0.14\text{-}134.2 \times 10^{-6}$		E.D1	"	"	"
"	* $0.25\text{-}31.5 \times 10^{-6}$		E.D2	"	"	"
"	* $0.12\text{-}0.34 \times 10^{-6}$		E.D3	"	"	"
(ten PAH's)	* $1.5\text{-}145.4 \times 10^{-6}$		E.D1	1967-68	"	144
"	* $1.7\text{-}20.7 \times 10^{-6}$		E.D2	"	"	"
"	* $0.91\text{-}2.56 \times 10^{-6}$		E.D3	"	"	"
(carcinogenic)	* $0.70\text{-}60.6 \times 10^{-6}$		E.D1	"	"	"
"	* $0.63\text{-}7.8 \times 10^{-6}$		E.D2	"	"	"
"	* $0.21\text{-}0.77 \times 10^{-6}$		E.D3	"	"	"

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
AMINES AND DERIVATIVES						
5-Acetylamino-6-amino-3-methyluracil	$30\text{-}140 \times 10^{-6}$	EPA	E.D1		uv glc hplc	74
Acrylamide	16×10^{-6}	WRC	E.I2	1970	glc	26
	1.2×10^{-6}	"	SF/E.I2	"	"	"
	0.3×10^{-6}	"	"	"	"	"
	$0.74\text{-}42.0 \times 10^{-6}$	"	E.I3	"	"	"
	$0.47\text{-}1.2 \times 10^{-6}$	"	E.I5	"	"	"
	$0.2\text{-}32.0 \times 10^{-6}$	"	E.I7	"	"	"
	0.1×10^{-6}	"	E.D5	"	"	"
	1.1×10^{-3}	"	E.D1	"	"	"
	0.28×10^{-3}	"	E.D3	"	"	"
Aminobenzoic acid			SF.R5		pc	72
Aminomethylpyridine			SF.L1	Sept. '73		10
			SF.L1 & T3	1973	glc ms	123
o,m,p-Aminophenol			SF.R1	Aug. '72	tlc	
Amino sugars (as C)	$0.5\text{-}1.8 \times 10^{-3}$	WRC	E.D1			80
2-Aminotoluene *	1.0×10^{-6}	RID	SF.R5			
Aniline	8.0×10^{-3}	WRC	LF	1973	glc ms	
			SF.R/E.I12, 16,21			27
	$1.2\text{-}2.3 \times 10^{-3}$		E.I19		glc	28
	16.5×10^{-3}		E.I12		"	"
			SF.R17	1972	glc ms	29
*	9.8×10^{-6}	RIV	SF.R5			

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
o-Anisidine			SF.R17	1972	glc ms	29
Benzidine	0.205 - 0.439 x 10^{-3}		SF.R18/E. I21	Dec. '64		30
Bromo-diethylaniline			SF.R17	1972	glc ms	29
Butylbenzene sulphonamide *			T11		glc ms	135

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
N-Butylphenylsulphonamide		KK	SF.R5	1970/71	glc ms	4
Cadaverine			SF.R5/E.D3			122
Chloroaniline		EPA	T	Sept. '73		24
			SR.R17	1972	glc ms	29
2-, 3-, & 4-Chloroaniline						
*	2.2, 1.5, & 1.5 x 10^{-6} respectively	RIV	SF.R5			
Chlorotoluidine			SF.R17	1972	glc ms	29
4,4'-Diamino-dicyclohexylmethane						
	0.4 x 10^{-3}	EPA	E.I18			2
Dibutylamine						
	<1.0 x 10^{-3}	EPA	E.I20			2
Dichloroaniline			SF.R17	1972	glc ms	29
Diethylamine						
	up to 1.0		E.D1/E.I4, 16	1967		31
			SF.R16,L5			32
*	10 x 10^{-6}	RID	SF.R5			
N,N-Diethylformamide						
	<1.0 x 10^{-3}	EPA	E.I20			2
*		"	SB/LF		glc ms	147
N,N-Dimethylformamide						
*			E.I23		glc ms	146
Dimethylamine						
	up to 1.0		E.D1/E.I4, 16	1967		31
			SF.R16,L5			32
Dimethylaniline						
*	10 x 10^{-6}	RID	SF.R5			
*	1.0 x 10^{-6}	RID	SF.R39			
N,N'-Dimethylaniline						
*	4.0 x 10^{-6} m		SF.R5			141
Diphenylamine						
*	1.0 x 10^{-6}	RID	SF.R5			
Ethylamine						
	up to 1.0		E.D1/E.I4, 16	1967		31
			SF.R16,L5			32
*			T10		glc ms	134
Ethyl carbamate		EPA	E.I5			2

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
EDTA						
*	0.19–0.22x10^{-6}	WRC	E.D2	1973/74	glc	
*	up to 1.2x 10^{-3}	"	E.D3	1974	"	
*	up to 1.12x 10^{-3}	"	SF.R4	"	"	
	0.1–0.2x10^{-3}	WRC	E.D3b	1973	glc	
	530–550x10^{-6}	"	E.D3a	May '74	glc	
	740 x 10^{-6}	"	E.D4	"	"	
	190 x 10^{-6}	"	SF.R4/ E.D4	"	"	
*	0.05–0.17x10^{-3}		E.D1		"	145
*	0.06–0.18x10^{-3}		E.D3		"	"
N-(Ethylphenyl)acetamide		KK	SF.R5	1970/71	glc ms	4
N-Ethyltoluidine		KK	SF.R5	Nov. '71	glc ms	4
Hexylaniline			SF.R5		glc ms	23
Hydroxybenzamide			SF.R5		pc	72
p-Isopropyl diphenylamine						
*	1.0 x 10^{-6}	RID	SF.R5			
Methylamine	up to 1000		E.D1/E. I4, 16 SF.R16, L5	1967		31 32
2-Methylaniline	0.4–0.8x10^{-3}		E.I19		glc	28
	1.9 x 10^{-3}		E.I12		"	"
3-Methylaniline	0.6–1.2x10^{-3}		E.I19		glc	28
	4.4 x 10^{-3}		E.I12		"	"
4-Methylaniline	0.6–0.7x10^{-3}		E.I19		glc	28
	2.0 x 10^{-3}		E.I12		"	"
p-Methyl-N-butylbenzamide		KK	SF.R5	1970/71	glc ms	4
N-Methyl-2-pyridone-5-carboxamide	10–20 x 10^{-6}	EPA	E.D1		uv glc hplc]	74
N-Methyl-4-pyridone-3-carboxamide	10 x 10^{-6}	EPA	E.D1		uv glc hplc	74
Methyltoluidine			SF.R17	1972	glc ms	29
Nitroaniline			SF.R17	1972	glc ms	29

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Nitrotoluidine			SF.R17	1972	glc ms	29
Naphthylamine and benzidine	0.275 - 0.387 x 10^{-3}		SF.R18/E. I21	1964		30
NTA	0.1-0.34x10^{-3}		E.D1		lc glc ms	33
	1.8-1.9x10^{-3}		"	Nov & Dec	"	"
	4.0-5.3x10^{-3}		E.D2	"	"	"
	0.17-1.1x10^{-3}		E.D3	"	"	"
	0.36-1.56x10^{-3}		E.D4	"	"	"
	1.1 x 10^{-3}		E.D1		glc	145
	0.20 x 10^{-3}		E.D3		"	"
Pentylaniline			SF.R5		glc ms	23
N-Phenylphthalimide		WRC	LF		glc ms	
Picrolam, (4-amino-3,5,6-trichloropicolinic acid)	0.4-0.8x10^{-3})		LR.1			69
	<5 x 10^{-6})		LR.1 (1 month later)			"
Propylamine *			T10		glc ms	134
Propylaniline			SF.R5		glc ms	23
Putrescine			SF.R5/E.D3			122
Rhodamine B			E.D1/E.I	1971/72	tlc	24
p-Toluenesulphonamide *	1 x 10^{-3}	EPA	SB/LF		glc ms	147
Toluidine		KK	SF.R5	Nov. '71	glc ms	4
			SF.R17	1972	"	29
o-Toluidine *	2.0 x 10^{-6}		SF.R5		"	23
			SF.R5			141
Total amides (as C)	1.2-1.5 x 10^{-3}	WRC	E.D1			80
Total volatile amines (as N)	6-100 x 10^{-6}		SF.R16,L5			32

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Tributylamine			SF.R17	1972	glc ms	29
Triethylamine			SF.R16,L5			32
			E.I23		glc ms	146
Triethyl urea	6.4×10^{-3}	EPA	E.I20			2
Trimethylamine			SF.R16,L5			32
Urea	20×10^{-6} up to 22.1×10^{-3}	WRC	E.D3b	Jan. '73	hple c	
			E.D1	1968		34

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
CYANIDES AND AZO COMPOUNDS						
Acrylonitrile	0.1	EPA	E.I22		glc ms	2
		"	SF.R11/E.I22		"	20
Adiponitrile	0.32	EPA	E.I18		glc ms	2
Azobenzene		KK	SF.R5	1970/71	glc ms	4
Azoxybenzene		KK	SF.R5	1970/71	glc ms	4
Copper phthalocyanide		EPA	E.D1/I15	Apr. '72	c ms esms	24
Dichloroazobenzene *		KK	SF.R5		glc ms	148
Dichlorobenzonitrile		KK	SF.R5	1970/71	glc ms	4
2,6-Dichlorobenzonitrile	8.82×10^{-6}		SF.IR1			35
*		KK	SF.R5		glc ms	148
Dicyanobenzene		KK	SF.R5	1970/71	glc ms	4
Isocyanic acid		EPA	T1			36
Methylcyanobenzene *	1.0×10^{-6}	RID	T6			
Phthalic acid dinitrile		KK	SF.R5	1970/71	glc ms	4

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
NITRO AND NITROSO COMPOUNDS						
Chlorodinitrobenzene		KK	SF.R5	1970/71	glc ms	4,148
Chloronitrobenzene		KK	SF.R5	1970/71	glc ms	4
		EPA	T1			36
			SF.R17	1972	glc ms	29
1-Chloro-3-nitrobenzene						
*	10×10^{-6}	RID	SF.R5			
*	0.2×10^{-6}	"	T6			
Chloronitrotoluene		KK	SF.R5	1970/71	glc ms	4
			SF.R17	1972	"	29
3,4-Dichloroaniline						
*	2.9×10^{-6}	RIV	SF.R5			
Dichloronitrobenzene		KK	SF.R5	1970/71	glc ms	4,148
Dichloronitrotoluene		KK	SF.R5	1970/71	glc ms	4,148
Dimethylnitrobenzoic acid						
*		KK	SF.R5		glc ms	148
Dinitrobenzene		KK	SF.R5	1970/71	glc ms	4,148
			"		"	23
4,6-Dinitro-o-cresol	18×10^{-3}	EPA	E.I23		glc ms	2
2,4-Dinitromethylbenzene						
*			SF.R5		glc ms	23
2,6-Dinitromethylbenzene						
*			SF.R5		glc ms	23
2,4-Dinitrotoluene	0.19	EPA	E.I24		glc ms	2
2,6-Dinitrotoluene	0.15	EPA	E.I24		glc ms	2
	0.02×10^{-3}	"	E.D4/I24		"	"
		"	T1			36
	3.0×10^{-6}	KK	SF.R5	1970/71	glc ms	4
		R10	"			142

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
3,4-Dinitrotoluene	40×10^{-3}	EPA	E.I24		glc ms	2
1-Methyl-2-chloro-4-nitrobenzene		KK	SF.R5		glc ms	148
Methyl nitrobenzoic acid		KK	SF.R5		glc ms	148
Methylnitroquinoline			SF.R17	1972	glc ms	29
o-Nitroanisole		KK	SF.R5	1970/71	glc ms	4
Nitrobenzene		KK	SF.R5	1970/71	glc ms	4, 148
			SF.R17	1972	"	29
	0.11×10^{-3}	EPA	E.I23			2
		"	T1			36
	20×10^{-6}	RID	SF.R5			142
Nitrobenzoic acid		KK	SF.R5	1970/71	glc ms	4
p-Nitrobenzoic acid *		KK	SF.R5		glc ms	148
3-Nitrobenzotrifluoride *		KK	SF.R5		glc ms	148
Nitrobiphenyl *		KK	SF.R5	1970/71	glc ms	4
2-Nitrobiphenyl *		KK	SF.R5		glc ms	148
o-Nitrochlorobenzene	37×10^{-6}		SF.R19/E.I			37
	$1-2 \times 10^{-6}$		SF.R19/E.I19]			"
	up to 21×10^{-6}		SF.R19			38
			SF.R5		glc ms	23
p-Nitrochlorobenzene			SF.R5		glc ms	23
Nitrochlorotoluene			SF.R5		glc ms	23

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
p-Nitrochlorobenzene						
*	20×10^{-6}	RID	SF.R5			142
*	10×10^{-6}	"	T6			
Nitrocresol		KK	SF.R5	1970/71	glc ms	4
2-Nitro-p-cresol	9.3×10^{-3}	EPA	E.D4/I23		glc ms	2
2-Nitro-m-dimethylbenzene		KK	SF.R5		glc ms	148
Nitrodimethylphenol						
*		KK	SF.R5		glc ms	148
Nitroethoxybenzene						
*		KK	SF.R5	1970/71	glc ms	4
o-Nitroethoxybenzene		KK	SF.R5		glc ms	148
o-Nitromethoxybenzene						
*		KK	SF.R5		glc ms	148
2-Nitromethylbenzene						
*			SF.R5		glc ms	23
Nitromethylphenol						
*		KK	SF.R5		glc ms	148
Nitronaphthalene		KK	SF.R5	1970/71	glc ms	4
			SF.R17	1972	"	29
1-Nitronaphthalene		KK	SF.R5		glc ms	148
Nitrophenol			SF.R5/E.I			122
o-Nitrophenol	1.4×10^{-3}	EPA	ED4/I23		glc ms	2
*	1.3×10^{-6}	RID	SF.R40			
Nitrophenyl phenyl ether						
*		KK	SF.R5		glc ms	148
Nitropropylbenzene			SF.R5		glc ms	23
Nitrotoluene		KK	SF.R5	1970/71	glc ms	4

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
o-Nitrotoluene						
		EPA	E.D4/E.I5		glc ms	2
	$0.15-7.8 \times 10^{-3}$	"	E.I24		"	"
	12×10^{-6}	"	E.D4/I24		"	"
		"	SF.R11		"	20
	$3.1-16.0 \times 10^{-6}$		SF.R17	1972	"	29
			SF.R5		"	23
*	20×10^{-6}	RID	"			142
*	1.0×10^{-6}	"	T6			"
m-Nitrotoluene						
		EPA	E.I24		glc ms	2
		"	SR.R11		"	20
p-Nitrotoluene						
	0.04×10^{-3}	EPA	EI.23		glc ms	2
	8.8×10^{-3}	"	EI.24		"	"
		"	SF.R11		"	20
			SF.R5		"	23
*	1.0×10^{-6}	RID	T6			
Nitroxylene						
		KK	SF.R5	Nov. '71	glc ms	4
			SF.R17	1972	"	29
Nitro-p-xylene						
			SF.R5		glc ms	23
2-Nitro-m-xylene						
		KK	SF.R5	1970/71	glc ms	4
Nitroxylenol						
		KK	SF.R5	1970/71	glc ms	4
2-Nitro-m-xylol						
		KK	SF.R5	1970/71	glc ms	4
Trichloronitrobenzene						
*		KK	SF.R5		glc ms	148
2,4,6-Trinitrotoluene						
	0.7×10^{-3}	EPA	E.I24		glc ms	2

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
ORGANO PHOSPHORUS COMPOUNDS						
Carbophenothion	up to 8×10^{-6}	WRC	SF.R2		glc	
DEF, (S, S, S, Tributylphosphorothioate)			E.I23	1966		39
Diazinon	up to 16×10^{-9}	WRC EPA	SF.R2 SF.R45	1968	glc glc ms tlc	20
Malathion	up to 0.3×10^{-6}	WRC EPA	SF.R2 SF.R45	1969/70	glc glc ms	20
Ronnell (trolene)	0.2×10^{-3}	EPA	RF			40
Tributyl phosphate		KK	SF.R5	1972	glc ms	4, 148
Tri-n-butyl phosphate	1.7×10^{-6}	EPA	SB/LF SF.L1 SF.L1, T3, SB6	 1973	glc ms glc ms	147 10 123
Triethyl phosphate	0.3×10^{-6}	EPA " "	E.I17 SB/LF E.D3		glc ms " "	24 147 133
Triphenylphospinoxide		KK	SF.R5	1974	glc ms	
Triphenylphosphate	0.12×10^{-6}	EPA	T1			
Tris-(2-chloroethyl) phosphate		KK	SF.R5	1972	glc ms	4
Tris-(2-ethylhexyl) phosphate		KK	SF.R5	1972	glc ms	4

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
ORGANO HALOGENS						
Aldrin						
	6×10^{-9}		SF.R22	1964		41
	3×10^{-9}		SF.R20	1959		"
	2×10^{-9}		SF.R23	1962		"
	$<1 \times 10^{-9}$		SF.R24	1958-65		"
	$<1 \times 10^{-9}$		SF.R25	1961		"
	$<1 \times 10^{-9}$		SF.R26	1958		"
	$<1 \times 10^{-9}$		SF.R27	1964		"
	0.26×10^{-6}		SF.R28	"		42
	$>0.11 \times 10^{-6}$		SF.R	1964-66		"
	0.02×10^{-6}		SF.R29	May '68		43
	$0.01-0.04 \times 10^{-6}$		SF.R30	1967		"
	0.02×10^{-6}		SF.R31	June '67		"
	0.02×10^{-6}		SF.R21	Feb. '67		"
	0.01×10^{-6}		SF.R32	"		"
	0.01×10^{-6}		SF.R26	Oct. '66		"
	0.01×10^{-6}		SF.R20	Feb. '67		"
	0.01×10^{-6}		SF.R33	"		"
	1×10^{-6}		SF.R20			44
	85×10^{-9}		SF.R21	1964		45
	1×10^{-6}		SF.R20	"		46
	5×10^{-9}		SF.R	1966		
	4×10^{-9}	WRC	SF.R3		glc	21
		EPA	E.I10		glc ms	2
	<0.01	RIV	SF.R5	1969-72	glc	126
*	0.15×10^{-6}	RIV	SF.R5			
*	$<0.01 \times 10^{-6}$		T6			
Aroclor 1242						
*	0.1-2.2	EPA	S.F-SF.L6	1971	glc	158
*	$ND-553 \times 10^{-3}$	"	S.SD-SF.L6	"	"	"
*	$ND-1.81 \times 10^{-3}$	"	SF.R60	1971-72	"	"
*	$ND-4.02 \times 10^{-3}$	"	E.D3	"	"	"
Aroclor 1254						
*	0.1-3.3	EPA	S.F-SF.L6	1971-72	glc	158
*	$1.54-232 \times 10^{-3}$	"	S.SD-SF.L6	1971	"	"

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Aroclor 1254 (contd)						
*	$61-841 \times 10^{-6}$	EPA	SF.R60	1971-72	glc	158
*	$97-568 \times 10^{-6}$	"	E.D3	"	"	"
Aroclor 1260		EPA	E.I10		glc ms	48
Benzene hexachloride (BHC)						
	4×10^{-9}		SF.R34	Sept. '66		49
	34×10^{-9}		SF.R28	"		"
	8×10^{-9}		SF.R23	"		"
	13×10^{-9}		SF.R35	"		"
	$2-56 \times 10^{-9}$		SF.R36	"		"
	$11 \text{ \& } 12 \times 10^{-9}$		SF.R19	"		"
	23×10^{-9}		SF.R31	"		"
	6×10^{-9}		SF.R21	"		"
	4×10^{-9}		SF.R22	1965		45
	2×10^{-9}		SF.R36	"		"
	22×10^{-9}		SF.R38	"		"
	11×10^{-9}		SF.R32	"		"
	4×10^{-9}		SF.R22	1958-64		"
	3×10^{-9}		SF.R29	"		"
	$<1 \times 10^{-9}$		SF.R24	"		"
	up to 0.75×10^{-6}		T/LR1			50
*	0.05×10^{-6}		E.D3			
*	0.81×10^{-6}	RID&RIV	SF.R5			
*	0.04×10^{-6}	"	SF.R39			
*	0.11×10^{-6}	RIV	T6			
*	0.19×10^{-6}		"			
α-BHC						
	$<0.01-0.48 \times 10^{-6}$	RIV	SF.R5	1969-72	glc	126
	0.01×10^{-6}	"	SF.R68	"	"	"
	0.15×10^{-6}	"	SF.R5	"	"	"

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)					Reference
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation		
α-BHC (contd)							
	$5-54 \times 10^{-9}$	WRC	SF.R3	1965/66	glc		21
	1.63×10^{-6}	"	SF.RL7	Nov'66	"		"
	up to 10×10^{-9}	"	SF.RU7	"	"		"
	$\sim 7 \times 10^{-6}$	"	E.D1	1966	glc		51
	$\sim 0.7 \times 10^{-6}$	"	E.D2	"	"		"
	$\sim 0.4 \times 10^{-6}$	"	E.D3b	"	"		"
	$\sim 130 \times 10^{-6}$	"	S.SS	"	"		"
	$\sim 40 \times 10^{-6}$	"	S.H	"	"		"
	$1-16 \times 10^{-9}$	"	SF.R47	"	"		"
	$61-430 \times 10^{-9}$	"	SF.R48	"	"		"
	$13-379 \times 10^{-9}$	"	SF.R49	"	"		"
	543×10^{-9}	"	SF.R48	Feb '68	"		"
	70×10^{-9}	"	SF.R49	"	"		"
	$1-4 \times 10^{-9}$	"	SF.R50	1968	"		"
	$1-4 \times 10^{-9}$	"	SF.R51	"	"		"
	$1-6 \times 10^{-9}$	"	SF.R52	"	"		"
	$1-16 \times 10^{-9}$	"	SF.R53	"	"		"
	$1-6 \times 10^{-9}$	"	SF.R54	"	"		"
	$1-8 \times 10^{-9}$	"	SF.R55	"	"		"
γ-BHC (Lindane)							
	$9-113 \times 10^{-9}$	WRC	SF.R3	Nov '66	glc		21
	$10-140 \times 10^{-9}$	"	SF.RL7	"	"		"
	up to 10×10^{-9}	"	SF.RU7	"	"		"
	50×10^{-9}	"	E.D3b	June '71	"		
	5×10^{-9}		SF.R29	65/66			52
	$5-10 \times 10^{-9}$		SF.R37	"			"
	5×10^{-9}		SF.R30	1966			"
	$5-20 \times 10^{-9}$		SF.R21	"			"
	$5-10 \times 10^{-9}$		SF.R31	65/66			"
	5×10^{-9}		SF.R32	1966			"
	$5-10 \times 10^{-9}$		SF.R26	"			"
	5×10^{-9}		SF.R20	Apr. '66			"
	$5-20 \times 10^{-9}$		SF.R33	1966			"
	10×10^{-9}		SF.R37	July'68			43
	10& 20×10^{-9}		SF.R30	1967			"
	10×10^{-9}		SF.R31	June '67			"
	10×10^{-9}		SF.R26	Oct '66			"
	$0.01-0.3 \times 10^{-6}$	SETUDE	SF.RL	Apr. '74	glc		
	$<0.01-0.34 \times 10^{-6}$	RIV	SF.R5	1969-72	"		126
	0.02×10^{-6}	"	SF.R68	"	"		"
	0.10×10^{-6}	"	SF.R5	"	"		"
*	<0.1	EPA	S.F-SF.L6	1971	"		158
*	ND-0.15×10^{-3}	"	S.SD-SF.L6]	"	"		"

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
γ-BHC (contd)						
	$18-390 \times 10^{-9}$	WRC	E.D3		glc	51
	130×10^{-9}	"	E.D4		"	"
	$9-330 \times 10^{-9}$	"	SF.R4	1966	"	"
	$56-1430 \times 10^{-9}$	"	E.D3b	Mar. '66	"	"
	$\sim 13 \times 10^{-6}$	"	E.D1	1966	"	"
	$\sim 3 \times 10^{-6}$	"	E.D2	"	"	"
	$\sim 1 \times 10^{-6}$	"	E.D3b	"	"	"
	$\sim 300 \times 10^{-6}$	"	S.SS	"	"	"
	$\sim 100 \times 10^{-6}$	"	S.H	"	"	"
	$12-40 \times 10^{-9}$	"	SF.R47	"	"	"
	$34-126 \times 10^{-9}$	"	SF.R48	"	"	"
	$6-108 \times 10^{-9}$	"	SF.R49	"	"	"
	622×10^{-9}	"	SF.R48	Feb. '68	"	"
	197×10^{-9}	"	SF.R49	"	"	"
	$4-24 \times 10^{-9}$	"	SF.R50	1968	"	"
	$9-38 \times 10^{-9}$	"	SF.R51	"	"	"
	$4-20 \times 10^{-9}$	"	SF.R52	"	"	"
	$10-50 \times 10^{-9}$	"	SF.R53	"	"	"
	$7-30 \times 10^{-9}$	"	SF.R54	"	"	"
	$8-98 \times 10^{-9}$	"	SF.R55	"	"	"
Bromobenzene						
		EPA	T1			36
Bromochlorobenzene						
		EPA	T1			36
Bromodichloromethane						
		EPA	T/SF.R36]		ms	47
*	$1.1-20.8 \times 10^{-6}$	"	T7		glc ms	150
*			T1		"	156
Bromoform						
		EPA	T1			36
*	4×10^{-3}	RIV	E.D23			
*	0.57×10^{-6}	EPA	T1			
*	10×10^{-6}		T6			149
*	0.05×10^{-6}		T10		glc ms	134
		EPA	T/SF.R36]		"	47
Bromophenyl phenylether						
		EPA	T1			36
Butyl bromide						
*			T10		glc ms	134

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
t-Butyl-1,2,-dichlorobenzene						
*	1.0×10^{-6}	RID	SF.R67			
Carbon tetrachloride						
			SF.L1, T3, SB6	1973	glc ms	123
*	5×10^{-9}		T10		"	134
*			T1		"	156
Chlordane						
	0.5×10^{-3}		RF			40
	75×10^{-9}		SF.R23	Sept. '66		49
	6×10^{-9}		SF.R32	"		"
		EPA	E.I10		glc ms	48
*		"	S.F-E.I6]		"	151
*	$0.0\text{-}670 \times 10^{-3}$		S.SD-SF.R72	1972	"	155
Chlordene						
		EPA	E.I10		glc ms	48
Chloroalkyl acetate						
*			E.D6		glc ms	152
Chlorobenzene						
		EPA	T1			36
	5.5×10^{-6}	CEN	SF.R SF.R5/E.I]	1972	glc ms	53 122
		EAWAG	E.D3	Apr. '74	glc ms	124
*	5.0×10^{-6}	RID	SF.R5			
*	1.0×10^{-6}	"	T6			
*		EAWAG	T3, SB6, SF.R69		glc ms	136
		EAWAG	SF.L SF.L1	1972		10
		EPA	T		glc ms	24
*	1×10^{-6}		T10		"	134
2-Chlorobenzoic acid						
	0.25×10^{-3}	EPA	E.I23			2
	0.26×10^{-6}	"	E.D6		glc	157
3-Chlorobenzoic acid						
	0.62×10^{-6}	EPA	E.D6		glc	157

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
4-Chlorobenzoic acid	1.1×10^{-6}	EPA	E.D6		glc	157
Chlorobenzophenone *		KK	SF.R5		glc ms	148
Chlorobiphenyl *		KK	SF.R5		glc ms	148
8-Chlorocaffeine	1.7×10^{-6}	EPA	E.D6		glc	157
4-Chlorocresol		CEN	SF.R	1972	glc ms	
Chlorocumene *			E.D6		glc ms	152
Chlorocyclohexane *	20×10^{-6}		E.D6		glc ms	152
Chlorodibromomethane		EPA	T/SF.R36]		ms	47
Chlorodimethoxybenzene		KK	SF.R5	1970/71	glc ms	4,148
1,2-Bis(chloroethoxy) ethane *			SF.R71		glc ms	135
Bis(2-chloroethoxy)ether	140×10^{-3}	EPA	E.I16		glc ms	2
*			SF.R71		"	135
Chloroethylbenzene *	21×10^{-6}		E.D6		glc ms	152
Bis(2-chloroethyl)ether	0.16×10^{-3} 41×10^{-6}	EPA	E.I16 SF.R10			25

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Bis(2-chloroethyl)ether (contd)						
		EPA	T/SF.R36]		glc ms	47
		"	SF.R19			36
		"	T1			"
*		KK	SB.2	1975	glc ms	
*	0.16×10^{-6}	EPA	T1			
Chloroethyl ether						
		EPA	T1			36
Chloroform						
		EPA	T1			36
	0.91×10^{-3}		T2		glc ms	9
*	$1.7\text{-}152.0 \times 10^{-6}$	EPA	T7		glc ms	150
*	9.3×10^{-6}	"	E.D1		"	"
*	7.1×10^{-6}	"	E.D3		"	"
*	12.1×10^{-6}	"	E.D6		"	"
*			"		"	152
*			T1		"	156
*	133×10^{-6}	EPA	"			
*	50×10^{-6}		T6			149
6-Chloroguanine						
	0.9×10^{-6}	EPA	E.D6		glc	157
3-Chloro-4-hydroxybenzoic acid						
	1.3×10^{-6}	EPA	E.D6		glc	157
Chlorohydroxybenzophenone						
		EPA	T/SF.R36]		ms	47
bis-Chloro-isopropyl ether						
*	25×10^{-6}	RID	SF.R5			
*	5×10^{-6}		SF.R39			141
*	0.18×10^{-6}	EPA	T1			
*	0.20×10^{-6}	RID	T6			
4-Chloromandelic acid						
	1.1×10^{-6}	EPA	E.D6		glc	157
Chloromethoxypentachlorobenzene						
		KK	SF.R5	1970/71	glc ms	4, 148
Chloro-α-methyl benzyl alcohol						
*			E.D6		glc ms	152

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
3-Chloro-2-methylbut-1-ene *	286×10^{-6}		E.D6		glc ms	152
2-Chloro-1-methylethyl ether			SF.R5		glc ms	23
4-Chloro-3-methylphenol	1.5×10^{-6}	EPA	E.D6		glc	157
1-Chloro-2-naphthol *		KK	SF.R5		glc ms	148
Chloromethylphenoxyacetic acid	1×10^{-3}	WRC	E.I4	1973	glc ms	
Chloromethylquinoline *		KK	SF.R5		glc ms	148
Chloronaphthalenes *	55×10^{-3}		S.SD-SF.R72]	1972	glc ms	155
Chloro-β-naphthol		KK	SF.R5		glc ms	4
2-Chlorophenol	1.7×10^{-6}	EPA	E.D6		glc	157
*	$1.0\&2.2 \times 10^{-6}$	RID	T6			
3-Chlorophenol	0.51×10^{-6}	EPA	E.D6		glc	157
4-Chlorophenol	0.69×10^{-6}	EPA	E.D6		glc	157
2-(4-Chlorophenoxy)-2-methylpropionic acid	1.0×10^{-6}	EPA	E.D3a		glc ms	
4-Chlorophenylacetic acid	0.38×10^{-6}	EPA	E.D6		glc	157

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Chlorophenylmethyl sulphone *		KK	SF.R5		glc ms	148
Chlorophenylethyl sulphone *		KK	SF.R5		glc ms	148
1-Chloropropene *			T1		glc ms	156
*			T1		glc ms	156
bis-(Chloroisopropyl)ether *		KK	SF.R5		glc ms	148
3-Chloropropylether *	1.0×10^{-6}	RID	SF.R5			
Chloropyridine		EPA	T1			36
4-Chlororesorcinol	1.2×10^{-6}	EPA	E.D6		glc	157
5-Chlorosalicylic acid	0.24×10^{-6}	EPA	E.D6		glc	157
Chlorotoluene *		EAWAG	SF.R69		glc ms	136
			SF.R5		"	23
o-Chlorotoluene *	20×10^{-6}	RID	SF.R5			142
p-Chlorotoluene *	2.4×10^{-6}		SF.R5			141
5-Chlorouracil	4.3×10^{-6}	EPA	E.D6		glc	157
5-Chlorouridine	1.7×10^{-6}	EPA	E.D6		glc	157
8-Chloroxanthine	1.5×10^{-6}	EPA	E.D6		glc	157

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
DDD (TDE)						
	$5–10 \times 10^{-9}$		SF.R37	1966		52
	$5–10 \times 10^{-9}$		SF.R30	"		"
	$5–15 \times 10^{-9}$		SF.R31	1965–66		"
	10×10^{-9}		SF.R32	Aug '66		"
	$5–10 \times 10^{-9}$		SF.R26	1966		"
	$6–12 \times 10^{-9}$		SF.R19	1958–66		41, 49
	9×10^{-9}		SF.R20	Sept '66		41
	$10–40 \times 10^{-9}$		SF.R21	1967–68		43
	$8–11 \times 10^{-9}$		SF.R22	1955–65		41
	$11–12 \times 10^{-9}$		SF.R23	1965–66		41, 49
	$4–31 \times 10^{-9}$		SF.R24	1955–65		"
	7×10^{-9}		SF.R25	"		"
	$10–20 \times 10^{-9}$		SF.R26	1967–68		43
	5×10^{-9}		SF.R27	Sept '55		41
	$5–6 \times 10^{-9}$		SF.R28	Sept '66		49
	$3–11 \times 10^{-9}$		SF.R29	1955–66		41, 49
	$10–30 \times 10^{-9}$		SF.R30	1967–68		43
	$2–26 \times 10^{-9}$		SF.R31	1955–67		41, 43, 49
	$6–9 \times 10^{-9}$		SF.R32	1958–66		"
	10×10^{-9}		SF.R33	1966–68		43
	13×10^{-9}		SF.R34	Sept '66		49
	$3–4 \times 10^{-9}$		SF.R36	1955–66		41, 49
	$5–12 \times 10^{-9}$		SF.R37	1966–67		43, 49
	8×10^{-9}		SF.R38	1958–65		41
	$7–12 \times 10^{-9}$		SF.R41	1955–66		41, 49
	$3–5 \times 10^{-9}$		SF.R42	"		"
	5×10^{-9}		SF.R10	Sept '66		49
	5×10^{-9}		SF.L3	"		"
	$<10–230 \times 10^{-9}$	WRC	E.D3		glc	51
	ND	"	E.D4		"	"
	ND	"	SF.R4	1966	"	"
	up to 0.32×10^{-6}	"	E.D3b	Mar '66	"	"
	$\sim 0.2 \times 10^{-6}$	"	E.D1	1966	"	"
	0.2×10^{-6}	"	E.D2	"	"	"
	0.05×10^{-6}	"	E.D3b	"	"	"
	200×10^{-6}	"	S.SS	"	"	"
	$\sim 180 \times 10^{-6}$	"	S.H	"	"	"
	$8–108 \times 10^{-9}$	"	SF.R47	1966	"	"
	$<8–171 \times 10^{-9}$	"	SF.R48	"	"	"
	$<8–158 \times 10^{-9}$	"	SF.R49	"	"	"
	63×10^{-9}	"	SF.R48	Feb. '68	"	"
	70×10^{-9}	"	SF.R49	"	"	"
	up to 5×10^{-9}	"	SF.R50	1968	"	"
	"	"	SF.R51	"	"	"
	"	"	SF.R52	"	"	"
	ND	"	SF.R53	"	"	"
	up to 5×10^{-9}	"	SF.R54	"	"	"
	ND	"	SF.R55	"	"	"
	$.01–.03 \times 10^{-6}$		E.D3		"	54
	$.06–.08 \times 10^{-6}$		E.D3/I6		"	"
	$.03–.5 \times 10^{-6}$		E.D3/I6,25		"	"

Substance		Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
			Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
DDD (TDE)(contd)							
	*	0.02×10^{-6}	RID & RIV	SF.R5			
	*	$0.0\text{-}160 \times 10^{-3}$		S.SD-SF.R72]	1972	glc ms	155
	*	0.1-0.5	EPA	S.F-SF.L6]	1970	glc	158
o,p'-DDD							
	*	ND - 0.2	EPA	S.F-SF.L6]	1971-72	glc	158
	*	$ND\text{-}62 \times 10^{-3}$	"	S.SD-SF.L6]	1970-71	"	"
	*	$ND\text{-}2.5 \times 10^{-6}$	"	SF.R60	1971-72	"	"
	*	$ND\text{-}5.8 \times 10^{-6}$	"	E.D3	"	"	"
p,p'-DDD							
	*	$0.01\text{-}353 \times 10^{-3}$	EPA	S.SD-SF.L6]	1970-72	glc	158
		$<0.02\text{-}0.03 \times 10^{-6}$	RIV	SF.R5	1969-72	"	126
	*	<0.1 - 0.5	EPA	S.F-SF.L6]	1971-72	"	158
o,p'-DDE							
	*	<0.1 - 0.3	EPA	S.F-SF.L6]	1970-72	glc	158
	*	ND - 17.0	"	S.SD-SF.L6]	1970-71	"	"
	*	ND	"	SF.R60	1971-72	"	"
	*	$ND\text{-}7.5 \times 10^{-6}$	"	E.D3	"	"	"
p,p'-DDE							
	*	$0.14\text{-}67.3 \times 10^{-3}$	EPA	S.SD-SF.L6]	1970-71	glc	158
		$<0.01\text{-}0.12 \times 10^{-6}$	RIV	SF.R5	1969-72	"	126
	*	0.02×10^{-6}	RID&RIV	"			
	*	0.02×10^{-6}		T6			
	*		EPA	S.F.-E.D6]		glc ms	151
	*	<0.1 - 2.0	"	S.F-SF.L6]	1970-72	glc	158
	*	$0.6\text{-}20.3 \times 10^{-6}$	"	SF.R60	"	"	"
	*	$0.3\text{-}42.6 \times 10^{-6}$	"	E.D3	"	"	"
	*	$<0.3 \times 10^{-6}$	"	SF.L6	1970	"	"

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
DDE						
	up to 5.5×10^{-6}	WRC	SF.R3	1965/66	glc	21
		KK	SF.R5			4
	$4-11 \times 10^{-9}$		SF.R19	1958-65		45,49
	5×10^{-9}		SF.R20	Sept '64		45
	$4-20 \times 10^{-9}$		SF.R21	1964-68		43,45,52
	4×10^{-9}		SF.R22	Sept '64		45
	"		SF.R24	"		"
	$10-30 \times 10^{-9}$		SF.R26	1966-68		43,52
	2×10^{-9}		SF.R27	Sept '65		49
	$4-6 \times 10^{-9}$		SF.R28	1958-65		45,49
	$3-10 \times 10^{-9}$		SF.R29	1964-67		43,45
	$4-60 \times 10^{-9}$		SF.R30	1966-68		43,49,52
	$4-20 \times 10^{-9}$		SF.R31	1958-68		"
	10×10^{-9}		SF.R32	May '68		43
	$1-10 \times 10^{-9}$		SF.R33	1964-67		43,45,49
	$5-20 \times 10^{-9}$		SF.R37	1965-67		43,45
	0.2×10^{-3}		RF			40
	4×10^{-9}		SF.L3	1958-65		49
	$<0.02 \times 10^{-6}$		E.D3		glc	54
	up to 0.2×10^{-6}		E.D3/I6		"	"
	$0.1-0.3 \times 10^{-6}$		E.D3/I6,25		"	"
*	$0.0-61 \times 10^{-3}$		S.SD-SF.R72]	1972	glc ms	155
DDT						
	up to 0.164×10^{-6}	WRC	SF.R3	1965/66	glc	
	ND	"	E.D3b	1969	"	21
	$20-60 \times 10^{-9}$		LR			40
	1.2×10^{-6}		RF			"
	$0.01-3.4 \times 10^{-3}$		SF.L4			55
	$0.3-2 \times 10^{-6}$		SF.L5			56
	17×10^{-9}		SF.R10	Sept '64		45
	"		SF.R11	Sept '65		41
	$1-20 \times 10^{-6}$		SF.R19	1957-65		41,45,47
	$17-44 \times 10^{-9}$		"	1964-66		41,43,49
	$14-60 \times 10^{-9}$		SF.R20	"		45,52
	$10-25 \times 10^{-9}$		"	1966-68		43,49
	$21-70 \times 10^{-9}$		SF.R21	1964-66		41,45,52
	$10-120 \times 10^{-9}$		"	1967/68		43
	$31-72 \times 10^{-9}$		SF.R22	1964/65		41,45
	$7-17 \times 10^{-9}$		SF.R23	1958-65		"
	$16-20 \times 10^{-9}$		SF.R24	Sept '64		45
	$10-65 \times 10^{-9}$		SF.R26	1966-68		43,52
	2×10^{-9}		SF.R27	Sept '65		41
	$5-7 \times 10^{-9}$		SF.R28	Sept '66		49
	$1-20 \times 10^{-6}$		SF.R29	1957		57
	$16-50 \times 10^{-9}$		"	1964-66		41,45,52
	$10-90 \times 10^{-9}$		"	1966-68		43,49
	$10-123 \times 10^{-9}$		SF.R30	"		43,49,52
	$12-149 \times 10^{-9}$		SF.R31	1958-65		41,45
	$10-50 \times 10^{-9}$		"	1966/67		43,49,52
	$9-50 \times 10^{-9}$		SF.R32	1958-68		41,43
	$10-34 \times 10^{-9}$		SF.R33	1964-68		43,45
	$20-23 \times 10^{-9}$		SF.R36	1958-66		41,49

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
DDT (continued)						
	$10-110 \times 10^{-9}$		SF.R37	1966-68		43,49,52
	27×10^{-9}		SF.R38	Sept '64		45
	38×10^{-9}		SF.R41	Sept '66		49
	10×10^{-9}		SF.R42	"		"
	26×10^{-9}		SF.L3	"		"
	$4.2-4.7 \times 10^{-9}$	RVA	SF.L7	Aug '73	glc	
	30×10^{-6}	"	S.P.L7	June '73	"	
	$0.2-0.4 \times 10^{-3}$	"	S.A.L7	1973	"	
	$0.4-1.4 \times 10^{-3}$	"	S.WP.L7	"	"	
	$3.9-7.3 \times 10^{-3}$	"	PC	"		
	$1.4-10.7 \times 10^{-3}$	"	C	"		
	$0.9-11.6 \times 10^{-3}$	"	P & B	"		
	$8-197 \times 10^{-3}$	"	F	"		
	$5-800 \times 10^{-9}$	WRC	E.D3		glc	51
	260×10^{-9}	"	E.D4		"	"
	ND	"	SF.R4	1966	"	"
	up to 0.77×10^{-6}	"	E.D3b	Mar '66	"	"
	$\sim 6 \times 10^{-6}$	"	E.D1	1966	"	"
	0.5×10^{-6}	"	E.D2	"	"	"
	0.1×10^{-6}	"	E.D3b	"	"	"
	110×10^{-6}	"	S.SS	"	"	"
	"	"	S.H	"	"	"
	$8-50 \times 10^{-9}$	"	SF.R47	"	"	"
	$<8-167 \times 10^{-9}$	"	SF.R48	"	"	"
	$<8-217 \times 10^{-9}$	"	SF.R49	"	"	"
	133×10^{-9}	"	SF.R48	Feb '68	"	"
	251×10^{-9}	"	SF.R49	"	"	"
	up to 10×10^{-9}	"	SF.R50	1968	"	"
	up to 5×10^{-9}	"	SF.R51	"	"	"
	"	"	SF.R52	"	"	"
	ND	"	SF.R53	"	"	"
	up to 5×10^{-9}	"	SF.R54	"	"	"
	"	"	SF.R55	"	"	"
	$.04-.08 \times 10^{-6}$	"	E.D3		"	54
	$.02-.1 \times 10^{-6}$	"	E.D3/I6		"	"
	$.01-.5 \times 10^{-6}$	"	E.D3/I6,25		"	"
*		EPA	S.[illegible]-E.D3		glc ms	151
*	0.1 - 4.6	"	S.F-SF.L6	1970-72	glc	158
*	$0.42-375 \times 10^{-3}$	"	S.SD-SF.L6	1970-71	"	"
*	$6.3-59.4 \times 10^{-6}$	"	SF.R60	1970-72	"	"
*	$2.5-259 \times 10^{-6}$	"	E.D3	"	"	"
*	$<0.3-0.4 \times 10^{-6}$	"	SF.L6	1970	"	"
o,p'-DDT						
*	$ND-12.5 \times 10^{-6}$	EPA	SF.R60	1970-72	glc	158
*	$ND-74.6 \times 10^{-6}$	"	E.D3	"	"	"
*	$<0.3 \times 10^{-6}$	"	SF.L6	1970	"	"
*	ND-83	"	S.SD-SF.L6	1970-71	"	"
*	<0.1-0.6	"	S.F.-SF.L6	1970-72	"	"
	$<0.02-0.07 \times 10^{-6}$	RIV	SF.R5	1969-72	"	126
*	0.04×10^{-6}	RID&RIV	"			

Substance		Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
			Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
o,p'-DDT (contd)	*	$0.0-89 \times 10^{-3}$		S.SD-SF.R72	1972	glc ms	155
p,p'-DDT		$<0.02-0.17 \times 10^{-6}$	RIV	SF.R5	1969-72	glc	126
	*	0.03×10^{-6}	RID&RIV	"			
	*	$<0.001 \times 10^{-6}$		T6			
	*	$0.57-200 \times 10^{-3}$		S.SD-SF.R72	1972	glc ms	155
	*	<0.1 - 1.7	EPA	S.F.-SF.L6	1970-72	glc	158
	*	$0.11-375 \times 10^{-3}$	"	S.SD-SF.L6	1970-71	"	"
	*	$2.8-38.4 \times 10^{-6}$	"	SF.R60	1970-72	"	"
	*	$1.1-132.6 \times 10^{-6}$	"	E.D3	"	"	"
	*	$<1.0 \times 10^{-6}$	"	SF.L6	1970	"	"

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Dibromobenzene		EPA	T1			36
Dibromochloromethane						
*	0.65×10^{-3}	RIV	E.I23			
*	13×10^{-6}		T6			149
*	$<0.1\text{-}2.0 \times 10^{-6}$	EPA	T7		glc ms	150
*			E.D6		"	152
*			T1		"	156
Dibromodichloroethane						
*	0.33×10^{-6}	EPA	T1			
Dibromomethane	0.2×10^{-3}	RIV	E.I23			
2,3-Dibromo-1-propanol	0.5×10^{-3}	EPA	E.I		glc ms	2
Dibromopropene isomer		EPA	E.I		glc ms	2
		"	SF.R11		"	20
Dicamba	1×10^{-3}	WRC	E.I4	1973	glc ms	
Dichloroacetate derivative						
*	20×10^{-6}		E.D6		glc ms	152
Dichloroaniline						
*	13×10^{-6}		E.D6		glc ms	152
Dichloroanisole		KK	SF.R5	1970/71	glc ms	4
Dichlorobenzene		EPA	T1			36
			SF.L1& T3		glc ms	10,22
		CEN	SF.R	1972	"	

Substance		Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
			Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Dichlorobenzene (contd)							
	*	10.6×10^{-6}	EPA	E.D1		glc ms	150
	*	5.6×10^{-6}	"	E.D3		"	"
	*	6.3×10^{-6}	"	E.D6		"	"
			EPA	S.F.-ED6		"	151
	*	1×10^{-9}		T.10		"	134
o-Dichlorobenzene							
			KK	SF.R5	1970/71	glc ms	4,148
			EAWAG	SF.L	1972	"	
				SF.R5		"	23
		$3.9\text{-}16.7 \times 10^{-6}$		SF.R17	1972/73	"	29
	*	60×10^{-3}	RID	SF.R5			
	*	$0.5\&1.0 \times 10^{-6}$	"	T6			
		10×10^{-6}		E.D6		glc ms	152
			EAWAG	SB6, SF. R69		"	136
m-Dichlorobenzene							
			KK	SF.R5	1970/71	glc ms	4,148
		8×10^{-6}	CEN	SF.R	Oct. '71	"	
			EAWAG	SF.L	1972	"	
				SF.R5		"	23
		0.03×10^{-6}	EAWAG	E.D3	Apr. '74	glc ms	124
	*		"	T3, SB6, SF.R69		"	136
p-Dichlorobenzene							
		$1.4\text{-}4.0 \times 10^{-6}$		SR.R17	1972/73	glc ms	29
		7×10^{-6}	CEN	SF.R	Oct. '71	"	
			EAWAG	SF.L	1972	"	
			EPA	T			24
				SF.R5		glc ms	23
			EAWAG	E.D3	Apr. '74	"	124
	*	0.2×10^{-3}	RID	SF.R5			
	*	1.0×10^{-6}	"	T6			
	*	0.01×10^{-6}	EPA	T1			
	*		KK	SF.R5		glc ms	148
	*	10×10^{-6}		E.D6		"	152
	*		EAWAG	T3, SB6, SF.R69		"	136

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Dichlorobiphenyls		KK	SF.R5	1970/71	glc ms	4,148
		EPA	SF.-E. D6		"	151
Dichlorobromomethane						
*			T10		glc ms	134
*	20×10^{-6}		T6			149
Dichlorobutane						
*	27×10^{-6}		E.D6		glc ms	152
bis-(Dichlorobutyl)ether						
*		KK	SF.R5		glc ms	148
Dichlorodibenzyl						
*		KK	SF.R5		glc ms	148
Dichlorodifluoroethane						
*			T10		glc ms	134
Dichlorodimethoxybenzene		KK	SF.R5	1970/71	glc ms	4,148
Dichloroethane						
*			T1		glc ms	156
1,2-Dichloroethane						
		EPA	T1			36
	0.7×10^{-6}	CEN	SF.R	1971/72	glc ms	
	61×10^{-3}		T2		"	9
*	8.0×10^{-6}	EPA	T1			
Dichloro-bis(ethoxy)benzene						
*	30×10^{-6}		E.D6		glc ms	152
Dichloroethylbenzene						
*	20×10^{-6}		E.D6		glc ms	152
Dichloroethylene						
*	32×10^{-6}	RIV	E.I23			

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Dichloroethyl ether		EPA	T1			36
bis-(3,5-dichloro-2-hydroxyphenyl)sulphide *		KK	SF.R5		glc ms	148
Dichloromethoxybenzene *		KK	SF.R5		glc ms	148
Dichloromethoxytoluene *	32×10^{-6}		E.D6		glc ms	152
Dichloromethyl benzene *		KK	SF.R5		glc ms	148
Dichloro-α-methyl benzyl alcohol *	10×10^{-6}		E.D6		glc ms	152
Di-(chloroisopropyl)ether		KK	SF.R5	1970/71	glc ms	4
Dichlorophenols	80×10^{-6}	WRC	LF	June '72	glc ms	
2,4-Dichlorophenol	6.6×10^{-6}		SF.R36		glc	58
2,6-Dichlorophenol *	0.2×10^{-6}	RID	SF.R5			142
*	0.1×10^{-6}	"	T6			"
*	0.1×10^{-6}	"	"			
4,4'-dichlorophenylsulphone		KK	SF.R5		glc ms	148
*			T1		"	156
Dichloropropane *			T10		glc ms	134

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Dichloroprop						
	0.5×10^{-3}	WRC	E.I4	1973	glc ms	
Dichloropropene						
		EPA	SF.R/E.I5		glc ms	2
*			T1		"	156
1,3-Dichloropropene						
*			T1		glc ms	156
Dichlorotoluene						
		KK	SF.R5	1970/71	glc ms	4
*			E.D6		"	152
2,4-Dichlorophenoxyacetic acid						
	up to $.21 \times 10^{-3}$	WRC	SF/LR.RU	1971/72	glc	
	$70-120 \times 10^{-9}$		SF.R29	1967/68		43
	$20-70 \times 10^{-9}$		SF.R27	1968		"
	$30-240 \times 10^{-9}$		SF.R37	1967/68		"
	$10-110 \times 10^{-9}$		SF.R30	"		"
	50×10^{-9}		SF.R21	Apr. '68		"
	30×10^{-9}		SF.R32	May '68		"
	$50-330 \times 10^{-9}$		SF.R26	1967/68		"
	$50-140 \times 10^{-9}$		SF.R20	"		"
	$20-30 \times 10^{-9}$		SF.R33	"		"
Dieldrin						
	$3-59 \times 10^{-9}$	WRC	SF.R3	1965/66	glc	
	up to 30×10^{-9}	"	SF.RL7	"	"	
	ND	"	SB	"	"	
	up to 3×10^{-6}	"	SF/E.I6	"	"	
	40×10^{-9}	"	E.D4	1969	"	
		EPA	T/E.I6, 25		glc ms	48
	3×10^{-6}		RF			40
	$22-122 \times 10^{-9}$		SF.R19	1958-64		49
	$2-24 \times 10^{-9}$		"	1964-66		41,45,49
	$3-5 \times 10^{-9}$		SF.R20	"		45,49,52
	10×10^{-9}		"	June '67		43
	$2-15 \times 10^{-9}$		SF.R21	1964-66		45, 52
	$10-23 \times 10^{-9}$		"	1966/67		43, 49
	$3-12 \times 10^{-9}$		SF.R22	1964/66		41,45,49
	5×10^{-9}		SF.R23	Sept. '65		41
	$16-56 \times 10^{-9}$		SF.R24	1958-64		45,49
	$22-110 \times 10^{-9}$		"	1965-66		49
	$16-68 \times 10^{-9}$		SF.R25	1958-68		"

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Dieldrin (contd)						
	$5-40 \times 10^{-9}$		SF.R26	1966-68		43,52
	8×10^{-9}		SF.R27	Sept '64		45
	$3-8 \times 10^{-9}$		SF.R28	1964-66		45,49
	$4-23 \times 10^{-9}$		SF.R29	"		41,45,52
	$4-70 \times 10^{-9}$		"	1966-68		43,49
	$4-15 \times 10^{-9}$		SF.R30	1966		49,52
	$5-32 \times 10^{-9}$		SF.R31	1964		45
	$3-29 \times 10^{-9}$		"	1965		41,49,52
	4×10^{-9}		SF.R32	1964		45
	$3-11 \times 10^{-9}$		"	1965/66		41,49,52
	$2-15 \times 10^{-9}$		SF.R33	1964		45
	$3-10 \times 10^{-9}$		"	1965/66		41,43,52
	4×10^{-9}		SF.R35	Sept '66		49
	$13-55 \times 10^{-9}$		SF.R36	1958-65		45,49
	$2-7 \times 10^{-9}$		"	1965/66		41,49
	$1-10 \times 10^{-9}$		SF.R37	1964-66		45,49,52
	10×10^{-9}		"	Apr '68		43
	$16-24 \times 10^{-9}$		SF.R38	1958-65		41,45,49
	4×10^{-9}		"	Sept '66		49
	$3-16 \times 10^{-9}$		SF.R41	Sept '65		41
	$2-4 \times 10^{-9}$		SF.R42	1964-66		41,45,49
	$15-45 \times 10^{-9}$		SF.R10	1965/66		49
	$3-7 \times 10^{-9}$		SF.L6	1964/65		41,45
	$<0.01-0.08 \times 10^{-6}$	RIV	SF.R5	1969/62	glc	126
	0.01×10^{-6}	"	SF.R68	"	"	"
*	0.2×10^{-6}	EPA	SF.R24			
*	0.04×10^{-6}	RIV	SF.R5			
*	0.07×10^{-6}	EPA	T1			
*	0.02×10^{-6}	RIV	T6			
*	0.01×10^{-6}		"			
*	<0.1-0.5	EPA	S.F.-SF.L6	1970-72	glc	158
*	$0.01-30.8 \times 10^{-3}$	"	S.SD-SF.L6	1970-71	"	"
*	$0.9-22.5 \times 10^{-6}$	"	SF.R60	1970-72	"	"
*	$0.6-64.3 \times 10^{-6}$	"	E.D3	"	"	"
*	$<0.2 \times 10^{-6}$	"	SF.L6	1970	"	"

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Dieldrin (cont)						
	7-1900 x 10^{-9}	WRC	E.D3		glc	51
	40 x 10^{-9}	"	E.D4		"	"
	ND	"	SF.R4	1966	"	"
	up to 250 x 10^{-9}	"	E.D3b	Mar '66	"	"
	~0.7 x 10^{-6}	"	E.D1	1966	"	"
	~0.4 x 10^{-6}	"	E.D2	"	"	"
	~0.2 x 10^{-6}	"	E.D3b	"	"	"
	~140 x 10^{-6}	"	S.SS	"	"	"
	~210 x 10^{-6}	"	S.H	"	"	"
	< 3-34 x 10^{-9}	"	SF.R47	"	"	"
	31-286 x 10^{-9}	"	SF.R48	"	"	"
	0.10-0.63 x 10^{-6}	"	SF.R49	"	"	"
	0.197 x 10^{-6}	"	SF.R48	Feb '68	"	"
	0.65 x 10^{-6}	"	SF.R49		"	"
	< 5-40 x 10^{-9}	"	SF.R50	1968	"	"
	< 5-8 x 10^{-9}	"	SF.R51	"	"	"
	up to 5 x 10^{-9}	"	SF.R52	"	"	"
	< 5-10 x 10^{-9}	"	SF.R53	"	"	"
	up to 5 x 10^{-9}	"	SF.R54	"	"	"
	up to 12.9 x 10^{-9}	"	SF.R55	"	"	"
	0.1-0.3 x 10^{-6}		E.D3		"	54
	1-2 x 10^{-6}		E.D3/I6		"	"
	4-10 x 10^{-6}		E.D3/I6,25		"	"
Endosulfan (thiodan)			SF.R5			59
	<0.01-0.88 x 10^{-6}	RIV	"	1969-72	glc	126
(α- & β-) *	0.06&0.04 x 10^{-6}	RID&RIV	"			
*	0.02&0.01 x 10^{-6}	RIV	T6			
(α-) *	0.10 x 10^{-6}					
Endrin and isomers						
	4-214 x 10^{-9}		SF.R19	1958-65		41,45,49
	3-14 x 10^{-9}		"	Sept '66		49
	12 x 10^{-9}		SF.R21	Sept '64		45
	7-23 x 10^{-9}		SF.R22	1964-65		41,45
	22-31 x 10^{-9}		SF.R24	Sept '66		49
	21 x 10^{-9}		SF.R27	Sept '64		45
	69 x 10^{-9}		SF.R28	Sept '66		49
	5-9 x 10^{-9}		SF.R29	1964-66		45,49
	3-67 x 10^{-9}		SF.R31	1964/65		41,45
	5 x 10^{-9}		SF.R32	Sept '66		49
	9-19 x 10^{-9}		SF.R33	1964-66		45,49
	3 x 10^{-9}		SF.R35	Sept '66		49
	4-14 x 10^{-9}		SF.R37	1964-66		45,49
	0.94 x 10^{-6}		SF.R41	Sept '64		45
	6 x 10^{-9}		SF.L6	"		"
	22 x 10^{-9}		SF.L3	Sept '66		49
	<0.01-0.07 x 10^{-6}	RIV	SF.R5	1969/72	glc	126
*	0.02 x 10^{-6}	"	"			
*	4 x 10^{-9}	EPA	T1			

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Fenac						
	8.82×10^{3}		SF.LR1			35
Heptachlor						
*	ND–0.24×10^{-3}	EPA	S.SD–SF.L6	1971	glc	158
*	0.04×10^{-6}	RIV	SF.R5			
*	0.01×10^{-6}		T6			
	48×10^{-9}		SF.R19	Sept. '65		41
	$5–40 \times 10^{-9}$		SF.R20	1966/67		43,52,60
	$5–10 \times 10^{-9}$		SF.R21	1965–67		"
	115×10^{-9}		SF.R22	Sept. '65		41
	$5–10 \times 10^{-9}$		SF.R26	1966/67		43,52,60
	$4–20 \times 10^{-9}$		SF.R29	1965/66		41,49,60
	$10–40 \times 10^{-9}$		"	1967		43
	$15–20 \times 10^{-9}$		SF.R30	1966/67		43,52,60
	$5–35 \times 10^{-9}$		SF.R31	1965/66		41,52,60
	$10–20 \times 10^{-9}$		"	1967		43
	20×10^{-9}		SF.R32	1965–67		41,43
	$10–20 \times 10^{-9}$		SF.R33	1967		43
	24×10^{-9}		SF.R36	Sept. '65		41
	$5–20 \times 10^{-9}$		SF.R37	1965–67		43,52,60
	$<0.01–0.04 \times 10^{-6}$	RIV	SF.R5	1969–72	glc	126
Heptachlor epoxide						
	$1–67 \times 10^{-9}$		SF.R19	1958–65		41
	$2–7 \times 10^{-9}$		"	Sept. '66		49
	5×10^{-9}		SF.R20	June '66		52
	5×10^{-9}		SF.R21	1965/66		"
	20×10^{-9}		SF.R22	Sept. '65		41
	4×10^{-9}		SF.R23	Sept. '66		49
	6×10^{-9}		SF.R24	"		"
	$2–5 \times 10^{-9}$		SF.R26	1965/66		41,52
	40×10^{-9}		"	June '67		43
	7×10^{-9}		SF.R28	Sept. '66		49
	$2–20 \times 10^{-9}$		SF.R29	1958–67		41,43,52
	5×10^{-9}		SF.R30	1966		52
	$5–10 \times 10^{-9}$		SF.R31	1965–66		"
	$5–19 \times 10^{-9}$		SF.R32	"		41,52
	5×10^{-9}		SF.R33	Jan. '66		52
	$2–20 \times 10^{-9}$		SF.R36	Sept. '65		41
	5×10^{-9}		SF.R37	1965–66		52
	3×10^{-9}		SF.R41	Sept. '65		41
	10×10^{-9}		SF.L3	Sept. '66		49
	40×10^{-9}		RF.			40
	$<0.01–0.06 \times 10^{-6}$	RIV	SF.R5	1969–72	glc	126
*	0.05×10^{-6}	"	"			
*	$<0.01 \times 10^{-6}$		T6			
*	<0.1 – 0.1	EPA	S.E–SF.L6]	1970–72	glc	158

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Heptachlor epoxide (contd)						
*	ND-57 x 10^{-3}	EPA	S.SD-SF.L6]	1970-71	glc	158
*	ND-5.4 x 10^{-6}	"	SF.R60	1970-72	"	"
*	<0.2-17.2x10^{-6}	"	E.D3	"	"	"
*	<0.2 x 10^{-6}	"	SF.L6	1970	"	"
Heptachlorobiphenyl						
*		CEN	SF.R	1974	glc ms	
Heptachloronorbornene			SF.R19/ I10			61
1,2,3,4,5,7,7-heptachloronorbornene						
*	0.06 x 10^{-6}	EPA	T1			
Hexachlor epoxide		EPA	E.I10		glc ms	48
Hexachloroacetone						
*	30 x 10^{-6}		E.D6		glc ms	152
Hexachlorobenzene		EPA	T1			36
		"	T/SF. R36		ms	47
		"	E.I23			2
		KK	SF.R5	1970/71	glc ms	4,148
	0.4-3 x 10^{-6}		SF.L5			56
	0.01 x 10^{-6}	RIV	SF.R68	1969-72	glc	126
*	<0.01-0.52x 10^{-6}	"	SF.R5	"	"	"
*	20 x 10^{-6}	"	E.I23			
*	0.22 x 10^{-6}	RID&RIV	SF.R5			
*	0.01 x 10^{-6}	"	SF.R39			
*	0.01 & 0.06	RIV	T6			
*		EPA	S.F-E.D6		glc ms	151
*		CEN	SF.R	1974	tlc ms	

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Hexachlorobiphenyls						
*		EPA	S.F.-E.06]		glc ms	151
*		CEN	SF.R	1974	tlc ms	
Hexachlorobutadiene						
		KK	SF.R5	1970/71	glc ms	4, 148
		EPA	E.I10		"	41
*	6.4×10^{-6}	RIV	E.I23			
*	5.0×10^{-6}	RID	SF.R5			142
*	0.27×10^{-6}	EPA	T1			
1,3-Hexachlorobutadiene						
			SF.R5		glc ms	23
Hexachlorocyclohexane						
		KK	SF.R5	1970/71	glc ms	4, 148
Hexachlorocyclopentadiene						
		EPA	E.I10		glc ms	48
Hexachloroethane						
		CEN	SF.R	1972	glc ms	
		EPA	SF.R19/I5		"	2
		"	T/SF.R36		ms	47
*	8.4×10^{-6}	RIV	E.I23			
*	4.4×10^{-6}	EPA	T1			
Hexachloronorbornadiene & isomers						
			SF.R19/I10			61
		EPA	E.I10		glc ms	48
Isodrin & isomers						
			SF.R19/I10			61

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
MCPA, (4-chloro-2-methylphenoxyacetic acid)	up to 0.3 x 10^{-6}	WRC	SF.R2	1973	glc ms	
MCPB, (4-(4-chloro-2-methylphenoxy)butyric acid)	0.05-0.15x10^{-6}	WRC	SF.R2	1973	glc ms	
Mecoprop, (2-(4-chloro-2-methylphenoxy)propionic acid)	0.04-1.3x10^{-6}	WRC	SF.R2	1973	glc ms	
Methoxychlor						
*	ND - 0.1	EPA	S.F.-SD. L6	1971	glc	158
*	0.13-175x10^{-3}	"	S.SD-SF. L6	"	"	"
*	2.9-89.1x10^{-6}	"	SF.R60	1971-72	"	"
*	ND-106 x 10^{-6}	"	E.D3	"	"	"
Methoxyphenol						
*		CEN	SF.R	1973	glc ms	
Methyl chloride		EPA	T1			36
		CEN	SF.R	1972	glc ms	
Methylchlorophenylsulphone		KK	SF.R5	1970/71	glc ms	4
Bis-Methylchloropyridine			SF.R17	1972	"	29
Methyldichlorodiphenylmethane		KK	SF.R5	1970/71	glc ms	4
Methylene chloride						
*	8.22 x 10^{-6}	EPA	E.D1		glc ms	150
*	2.9 x 10^{-6}	"	E.D3		"	"
*	3.4 x 10^{-6}	"	E.D6		"	"

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Methylmercuric chloride						
	9-85(as Hg)		F/R18/I23	1960-63		62
	14.4		SF.R18/I23	1965		63
N-Methyl-trichloroaniline						
*	10×10^{-6}		E.D6		glc ms	152
Nonachlor						
		EPA	E.I10		glc ms	48
*		"	S.F.-E.D6			151
Octachlorodibenzoparadioxane						
		CEN			glc ms	53
Octyl chloride						
*	1×10^{-9}		T10		glc ms	134
PCB's						
		EPA	E.I10			
	$<0.05 \times 10^{-6}$	WRC	E.D3b	Jan. '72	hplc	
		KK	F.R5	1970/71	glc ms	4
	0.2×10^{-6}	EPA	E.I18		"	2
		"	SD.R11		"	20
		"	SF.R36		"	"
	0.2×10^{-3}	WRC	LF	1973	glc	
	$0.09-0.32 \times 10^{-9}$		SF.R64	1972/73	"	127
	$0.01-0.4 \times 10^{-6}$		SF.R59			128
	$5-3200 \times 10^{-3}$		S.SD			"
*	0.4×10^{-6}		SF.R5			141
*	0.1×10^{-6}		T6			"
*	$0.0-1400 \times 10^{-3}$		S.SD-SF.R72	1972	glc ms	155
	$29-48 \times 10^{-9}$	RVA	SF.L7	Aug. '73	glc	
	0.22×10^{-3}	"	S.P-L7	June '73	"	
	$0.3-3.6 \times 10^{-3}$	"	S.A-L7	1973	"	
	$1.4-2.5 \times 10^{-3}$	"	S.WP.L7	"	"	
	$28-48.8 \times 10^{-3}$	"	PC	"	"	
	$11-101 \times 10^{-3}$	"	C	"	"	
	$5-46 \times 10^{-3}$	"	P&B	"	"	
	$41-342 \times 10^{-3}$	"	F	"	"	
	0.02-5.6	WRC	S.SS	1970/71	"	
	$<0.03-2.17 \times 10^{-6}$		SF.R56	Aug. '69	"	64
	$0.04-0.25 \times 10^{-6}$		E.D3	Mar. '70	"	"
	2.50×10^{-6}		E.I23	"	"	"

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
PCB's (contd)						
	$<0.05 \times 10^{-6}$		E.D3b/I15, 26,27, 33	1971	lc glc	65
	$0.12-0.22 \times 10^{-6}$		E.D2/I 23,32, 33		"	"
	$0.07-0.23 \times 10^{-6}$		E.D3a/I28, 31,34		"	"
	$0.28-1.1 \times 10^{-6}$		E.D3b/I15, 28,31, 34		"	"
	$0.60-0.83 \times 10^{-6}$		E.D3a/I23, 28,33, 34		"	"
	$0.08-0.14 \times 10^{-6}$		E.D3a/I15, 27,29, 30		"	"
	$2.2-2.8 \times 10^{-6}$		E.D3b/I16, 31,34		"	"
	$0.17-0.34 \times 10^{-6}$		E.D3b		"	"
	$0.06-0.14 \times 10^{-6}$		E.D3a/I23, 28,34		"	"
	$0.07-0.15 \times 10^{-6}$		E.D3a/I15, 28,34		"	"
	$32-42 \times 10^{-6}$		E.D3b/I5,29, 31,32		"	"
	9×10^{-6}		SF.R/I5]		glc ms	66
	0.2-3.0		SF		"	"
*		EAMAG	T3, SB6, SF.R69		"	136
Pentachloroacetone						
*	30×10^{-6}		E.D6		glc ms	152
Pentachloroanisole						
*		EPA	S.[illegible]-S. I6		glc ms	151
		KK	SF.R5	1970/71	"	4
Pentachlorobenzene						
*		KK	SF.R5		glc ms	148

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Pentachlorobiphenyls						
*		EPA	SF.-E. D6		glc ms	151
*		CEN	SF.R	1974	tlc ms	
Pentachlorobutadiene						
*		KK	SF.R5		glc ms	148
Pentachlorobutene						
*		KK	SF.RF		glc ms	148
Pentachlorocyclohexane						
		KK	SF.R5		glc ms	148
Pentachloromethoxybenzene						
*		KK	SF.R5		glc ms	148
Pentachloromethylbenzene						
*		KK	SF.R5		glc ms	148
Pentachlorophenol						
*		EPA	S.F.-E.D6		glc ms	151
		CEN	SF.R	1973	"	
Tetrachloroacetone						
*	11×10^{-6}		E.D6		glc ms	152
1,1,3,3-Tetrachloroacetone						
*		EPA	T12		glc ms	154
Tetrachloroanisole						
*		EPA	S.F.-E.D6		glc ms	151
1,2,3,4-Tetrachlorobenzene						
*		KK	SF.R5		glc ms	148
*		EAWAG	SB6, SF.R69		"	134
1,2,3,5-Tetrachlorobenzene						
*		KK	SF.R5		glc ms	148
1,2,4,5-Tetrachlorobenzene						
*		KK	SF.R5		glc ms	148
Tetrachlorobenzoquinone						
*		CEN	SF.R	1974	tlc ms	

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Tetrachlorobiphenyls						
*		CEN	SF.R	1973	glc ms	
*		EPA	S.F-E.D6		"	151
Tetrachlorobutadiene		KK	SF.R5		glc ms	148
Tetrachlorodibenzyl						
*		KK	SF.R5		glc ms	148
Tetrachloroethane						
	2.2×10^{-3}	EPA	E.I23		glc ms	20
*	0.01×10^{-6}		T10		"	134
1,1,2,2-Tetrachloroethane						
*	0.11×10^{-6}	EPA	T1			
Tetrachloroethylene						
*			T1			156
		EPA	"			36
	0.5×10^{-6}	CEN	SF.R	1971/72	glc ms	
		KK	SF.R5	1970/71	"	4,148
			T2		"	9
		EPA	T/SF.R36		"	47
			SF.L1, T3, SB6	1973	"	123

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Tetrachloroethylene (contd)						
*	0.65×10^{-3}	RIV	E.I23			
*	0.5×10^{-6}	EPA	T1			
*		EAWAG	T3, SB6, SF.R69		glc ms	136
1,1,2,2-Tetrachloroethylene						
*	6.2×10^{-6}	EPA	E.D1		glc ms	150
*	3.9×10^{-6}	"	E.D3		"	"
*	4.2×10^{-6}	"	E.D6		"	"
Tetrachloroethylstyrene						
*			E.D6		glc ms	152
(Tetrachlorohydroxy)-phenoxytrichlorobenzoquinone						
*		CEN	SF.R	1974	tlc ms	
Tetrachloromethoxytoluene						
*	40×10^{-6}		E.D6		glc ms	152
Tetrachloromethane						
	$<0.1 \times 10^{-3}$		T2		glc ms	9
			SF.L1		"	10
Tetrachloromethoxybenzene						
*		KK	SF.R5		glc ms	148
Tetrachloromethylbenzene						
*		KK	SF.R5		glc ms	148
Tetrachlorophenol						
		CEN	SF.R	1972	glc ms	53
		EPA	E.I9		"	2
*	30×10^{-6}		E.D6		glc ms	152
Tetrachlorophthalate derivative						
*			E.D6		glc ms	152
Tetrachloro-isopropylether						
*	0.6×10^{-6}		SF.R5			141

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Tetrachloroquinone		CEN	SF.R	1972	glc ms	53
Tetrachlorotoluene		KK	SF.R5	1970/71	glc ms	4
Toxaphene	0.4×10^{-6}		T/LR.1			50
	0.75×10^{-6}		SF.R44			42
	$1-28 \times 10^{-6}$		SF.L8			67
	4.2–15.2		S.F.L8			"
	0.4–18.3		S.WP.L8			"
	0.04–0.13		S.SD.L8			"
Trichloroanisole		KK	SF.R5	1970/71	glc ms	4
*		EPA	S.F.–E.D6]		"	151
2,4,5-Trichloroanisole			SF.R5		glc ms	23
Trichlorobenzene isomers	$0.1-0.5 \times 10^{-6}$		SF.R25/I21	1972/73	glc ms	68
	20×10^{-6}	CEN	SF.R	1971/72	"	
		EPA	SF.R/I 14		"	2
			SF.L1& T3		"	22
			SF.L1		"	10
			SF.R5		"	23
*	5.0×10^{-6}	RID	"			
*	0.1×10^{-6}	"	T6			
*	66.9×10^{-6}	EPA	E.D1		glc ms	150
*	56.7×10^{-6}	"	E.D3		"	"
*	56.9×10^{-6}	"	E.D6		"	"
*		"	S.F.–E.D6		"	151
*			E.D6		"	152
*	1×10^{-9}		T10		"	134
1,2,3-Trichlorobenzene		EAWAG	SF.L	1972		
		KK	SF.R5	1970/71	glc ms	4,148
*		EAWAG	E.D3	Apr. '74	"	124
		"	SB6, SF R69		"	136

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
1,2,4-Trichlorobenzene						
		EAWAG	SF.L	1972		
		KK	SF.R5	1970/71	glc ms	4, 148
		EAWAG	E.D3	Apr. '74	"	124
*		"	T3, SB6, SF R69		"	136
1,3,5-Trichlorobenzene						
		KK	SF.R5	1970/71	glc ms	4, 148
*		EAWAG	SB6, SF R69		"	136
2,3,6-Trichlorobenzoic acid						
	5×10^{-3}	WRC	E.I3b	1973	glc ms	
	1×10^{-3}	"	SF.R7/ I10	"	"	
	$0.2\text{-}6 \times 10^{-6}$	"	SF.R7	"	"	
	1×10^{-6}	"	SF.R2/ I10	"	"	
Trichlorobiphenyl						
*		KK	SF.R5		glc ms	148
*		EPA	S.F.-E.06]		"	151
Trichlorocumene						
*			E.D6		glc ms	152
Trichlorocyclopentene isomers						
		EPA	E.I10		glc ms	48
Trichlorodimethyl benzene						
*		KK	SF.R5		glc ms	148
*			E.D6		"	152
1,1,2-Trichloroethane						
		EPA	T1			36
	5.4×10^{-3}	"	E.I23		glc ms	2
	0.45×10^{-6}	EPA	T1			
1,1,1-Trichloroethane						
*	16.5×10^{-6}	EPA	E.D1		glc ms	150
*	9.0×10^{-6}	"	E.D3		"	"
*	8.5×10^{-6}	"	E.D6		"	"

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Trichloroethylbenzene						
*	12×10^{-6}		E.D6		glc ms	152
Trichloroethylene						
*			T1		glc ms	156
		CEN	SF.R	1972	"	
			SF.L1		"	10
			SF.L1, T3, SB6	1973	"	123
*	0.2×10^{-3}	RIV	E.I23			
1,1,2-Trichloroethylene						
*	40.4×10^{-6}	EPA	E.D1		glc ms	150
*	8.6×10^{-6}	"	E.D3		"	"
*	9.8×10^{-6}	"	E.D6		"	"
Trichlorofluoromethane						
*			T10		glc ms	134
Trichloroguaiacol						
		EPA	E.I5		glc ms	2
Trichlorohydroxybenzoquinone						
*		CEN	SF.R	1974	tlc ms	
Trichloromethane						
*			T10		glc ms	134
Trichloro-N-methylanisole						
*			E.D6		glc ms	152
Trichloromethoxybenzene						
*		KK	SF.R5		glc ms	148
Trichloromethylbenzene						
*		KK	SF.R5		glc ms	
Trichloro-α-methyl benzyl alcohol						
*	$25-50 \times 10^{-6}$		E.D6		glc ms	152

Substance	Concentration (g/l-waters) (mg/kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Trichloromethylene			T2		glc ms	
Trichloromethylstyrene *	10×10^{-6}		E.D6		glc ms	152
Trichlorophenol	40×10^{-6}	WRC	LF	June '72		
		CEN	SF.R	1972	glc ms	
		"			"	53
*	$2\&4 \times 10^{-9}$	RID	T6			142
*			E.D6		glc ms	152
*		EPA	T12		"	154
2,4,5-Trichlorophenyl 4-chlorophenyl sulphone *		KK	SF.R5		glc ms	148
Trichlorophthalate derivative			E.D6		glc ms	152

	Concentration (µg/l-waters) (mg/Kg-solid samples)	Notes (see Key)				
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	Values
ORGANO METALLICS						
Copper (II) acetate		EPA	ED1		ms hplc	
Diphenylmercury		EPA	SF.L	1968	glc ms	20
Methylmercuric chloride	5		S.F/SF.L14 SF.L15			116 "
Methyl mercury	0.08 (as Hg)	RVA	S.F/SF.L7	1973	glc	
Phenylmercuric chloride		EPA	SF.L	1968	glc ms	20

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
MERCAPTANS AND MISC. SULPHUR COMPOUNDS						
2-Acetylthiophene		EPA	E.I5		glc ms	2
		"	SF.R19/I5		"	"
Alkyl benzothiophenes	$<15 \times 10^{-6}$		SB1		ms	1
Benzothiazole			SF.R17		glc ms	29
		EPA	LF		"	20
*			SF.R71			135
2-Benzothiazole		EPA	SF.R/I14		glc ms	2
		"	E.I17		"	24
Benzothiazolyl-2-methyl sulphon *		KK	SF.R5		glc ms	148
Benzothiophene			SF.R17		glc ms	29
	0.37×10^{-6}		SB1		glc ms uv	1
Butylbenzene sulphonamide *			T11	Apr '72	glc ms	135
n-Butyl isothiocyanate	$0.1\text{-}0.5 \times 10^{-3}$	EPA	E.I20		glc ms	2
t-Butylmercaptan	4.6×10^{-6}		SF.R36		glc	58
2,5-Diethylthiophene		EPA	E.I5		glc ms	20
2,4-Dimethyldiphenyl sulphone		EPA	E.I18		glc ms	2
		"	E.I22		"	"
		"	SF.R11		"	20
Dimethyl disulphide			SF.L1,T3,SB6	1973	glc ms	10,123
Dimethyl sulphone		EPA	SF.R19/I5		glc ms	2
		"	E.I5		"	20
Dimethyl sulphoxide		EPA	E.I5		glc ms	2
Dimethyl trisulphide			SF.L1	1973	glc ms	10,123
Diphenylene sulphide	0.1×10^{-3}	EPA	E.I9		glc ms	2
*		KK	SF.R5		"	148
Diphenyl sulphone		KK	SF.R5	1970/71	glc ms	4

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
p-Dithiane	0.12×10^{-3}	EPA	E.I16		glc ms	2
Ethyl isothiocyanate	$<1.5 \times 10^{-3}$	EPA	E.I20		glc ms	2
2-Formylthiophene		EPA	E.I5		glc ms	2
Hydrogen sulphide		CEN	SF.R	Jun.'72	glc ms	
p-Hydroxythiophenol		EPA	E.I5		glc ms	2
Lauryl sulphate	10×10^{-6}		SF.R1	Sept '72	tlc	
2-Mercaptobenzothiazole		EPA	E.I16		glc ms	2
		"	E.I5		"	"
Methylbenzothiazole			S.F.R71		glc ms	135
2-Methylbenzothiazole						
*	10×10^{-6}	RID	SF.R5			142
*	1.0×10^{-6}	"	T6			"
Methyl benzothiazolysulphone		KK	SF.R5	1970/71	glc ms	4
2-Methylthiobenzthiazole		KK	SF.R5	1970/71	glc ms	4,148
*	200×10^{-6}	RID	"			
*	0.5×10^{-6}	"	T6			
Methyl trisulphide		EPA	E.I5		glc ms	2
n-Octylmercaptan			E.I36		glc	58
1-Phenyl-2-thiopropane			SF.L1	1973	glc ms	10,123
2-Propionyl thiophene		EPA	SF.R19/I5		glc	2
Sulphur dioxide		CEN	SF.R	Jun '72	glc ms	

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
2,2-Thiodiethanol	2×10^{-3}	EPA	E.I16		glc ms	2
2-Thiomethylbenzothiazole *			SF.R71		glc ms	135
Thiophenol			SF.R5/E.I			122

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
PHENOLS AND QUINONES						
Alkyl quinolines	0.05×10^{-3}	EPA	E.I9		glc ms	2
			SF.R17		"	29
Anthraquinone						
*	2.0×10^{-6}	KK	SF.R5	1970/71	glc ms	4
		RID	"			
Benzoquinoline			SF.R17		glc ms	29
2-t-Butyl-4-methoxyphenol		KK	SF.R5	Nov '71	glc ms	4,148
2-t-Butyl-4-methylphenol		KK	SF.R5	Nov '71	glc ms	4
4-Carboxyl-2,6-di-t-butyl phenol *		KK	SF.R5		glc ms	148
Catechol	0.1×10^{-3}	WRC	LF	1973/74	glc	
	$8\text{-}3330 \times 10^{-3}$		E.I12		"	70
Cresol isomers	10×10^{-9}		SF.R1	Aug '72	tlc	
	1.3×10^{-6}		SF.R36		glc	58
o-Cresol	0.12×10^{-3}	EPA	E.I8		glc ms	20
		"	E.I12		"	48
	1.4×10^{-3}	"	E.I9		"	2
	0.12×10^{-3}	"	E.I8		"	"
		"	LF		"	20
	0.3×10^{-3}	WRC	"		glc	
	0.100-0.386		E.I12		"	70
m-Cresol		EPA	E.I12		glc ms	48
			SF.R36		pc	71
	2.5×10^{-3}	EPA	E.I9		glc ms	2
	0.3×10^{-3}	WRC	LF		glc	
	0.156-0.735		E.I12		"	70
p-Cresol		EPA	E.D1		hplc	
	0.05×10^{-3}	"	E.I5		glc ms	2
		"	LF		"	20
	1.0×10^{-3}	WRC	"		glc	
		CEN	SF.R	1972	glc ms	
	0.109 - 0.485		E.I12		glc	70
*	14.6×10^{-6}	EPA	SB/LF		glc ms	147
2,6-Di-t-amylbenzoquinone *		EPA	SB/LF		glc ms	147

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5)
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	References
2,6-Di-t-butyl-p-benzoquinone						
	0.01×10^{-3}	EPA	E.135		glc ms	2
		"	SB/LF		"	147
*	0.23×10^{-6}	"	T1.			
2,5-Di-t-butyl cresol						
		KK	SF.R5	Nov '71	glc ms	4
		EPA	SF.R11		"	20
Di-t-butyl-p-cresol						
		CEN	SF.R	Jun '72	glc ms	
2,5-Di-butyl-4-ethoxyphenol						
		KK	SF.R5		glc ms	148
2,6-Di-t-butyl-4-ethylphenol						
		KK	SF.R5		glc ms	148
2,6-Di-t-butyl-2-hydroxymethylphenol						
*		KK	SF.R5		glc ms	148
1,2-Bis-(3,5-di-t-butyl-4-hydroxyphenyl)ethane						
		KK	SF.R5	Nov '71	glc ms	4
Bis(3,5-di-t-butyl-2-hydroxyphenyl)methane						
*		KK	SF.R5		glc ms	148
Bis(3,5-di-t-butyl-4-hydroxyphenyl)methane						
		KK	SF.R5	Nov '71	glc ms	4
2,6-Di-t-butyl-4-methoxyphenol						
		KK	SF.R5		glc ms	148
2,6-Di-t-butyl-4-methylphenol						
*			T11	Apr '72	glc ms	135
*		KK	SF.R5		"	148
*	10.0×10^{-6}	RID	"			
2,5-Dimethylphenol						
		EPA	E.I12		glc ms	48
3,4-Dimethylphenol						
		EPA	E.I12		glc ms	48
3,5-Dimethylphenol						
		EPA	E.I12		glc ms	48
			SF.R36		pc	71
Dimethyl quinoline isomers						
	0.1×10^{-3}	EPA	E.I9		glc ms	2

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Dimethyl-p-quinone		EPA	E.I12		glc ms	48
o-Ethylphenol	$1\text{-}25 \times 10^{-3}$		E.I12		glc	70
m-Ethylphenol		EPA	E.I5		glc ms	2
	$11\text{-}71 \times 10^{-3}$		E.I12		glc	70
p-Ethylphenol	$2\text{-}112 \times 10^{-3}$		E.I12		glc	70
Gallic acid			SF.R5		pc	72
Guaiacol	0.43×10^{-3}	EPA	E.I5		glc ms	2,20
		"	SF.R19/ 5		"	2
		"	T1			36
			SF.R36		pc	71
			SF.R5		"	72
		CEN	SF.R	1972	glc ms	53
Hydroxybenzoic acid			SF.R5		pc	72
3-Hydroxybenzoic acid	$\sim 40 \times 10^{-6}$	EPA	E.D1		hplc	
4-Hydroxybenzoic acid		EPA	E.D1		hplc	
Hydroxybiphenyl isomer		EPA	E.I10		glc ms	2
4-Hydroxyphenylacetic acid	190×10^{-6}	EPA	E.D1		hplc	
3-Hydroxypheylhydracrylic acid	10×10^{-6}	EPA	E.D1		hplc	
3-Hydroxyphenylpropionic acid	$\sim 20 \times 10^{-6}$	EPA	E.D1		hplc	
3-Methylcatechol	up to 1.900		E.I12		glc	70
4-Methylcatechol	up to 1.200		"		glc	"
Methyl quinoline isomers	0.5×10^{-3}	EPA	E.I10		glc ms	2
Naphthols		CEN	SF.R	Jun '72	glc ms	
			SF.R5		pc	72
	1×10^{-9}		SF.R1	Aug '72	tlc	

Substance (1)		Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
1-Naphthol							
			EPA	E.I12		glc ms	48
2-Naphthol							
				SF.R36		glc	58
				SF.R		tlc	73
Nonylphenol							
			EPA	SF.R/I14,25		glc ms	48
				T11	Apr '72	"	135
o-Nonylphenol							
	*	3×10^{-3}	EPA	SF.R24			
p-Nonylphenol							
	*	10×10^{-6}	RID	SF.R5			
Octylphenol							
			EPA	SF.R/I14,25		glc ms	48
Phenol							
		0.2×10^{-3}	EPA	E.I8		glc ms	20
				SF.R5		pc	72
				SF.R36		"	71
		6.0×10^{-3}	WRC	LF	1973/74	glc	
			CEN	SF.R	1972	glc ms	53
		$0.01-1.0 \times 10^{-6}$		SF.R1	Aug '72	tlc	
			EPA	LF		glc ms	20
			"	E.I12		"	48
			"	E.D1		"	2
				SF.R5/E.I			122
		0.06×10^{-3}	EPA	E.I8		glc ms	20
	*	0.10×0.23	RID	T6			
		0.2×10^{-3}	EPA	E.I8		glc ms	2
		0.66×10^{-3}	"	E.I9		"	"
		0.06×10^{-3}	"	E.I23		"	"
			"	E.I5		"	"
		0.825-2.29		E.I12		glc	70
	*			E.D3		glc ms	133
Phenyl phenol isomers							
			CEN	SF.R	June '72	glc ms	
	*	0.1×10^{-6}	RID	SF.R5			
o-Phenyl phenol							
			EPA	SF.R/I14		glc ms	2
	*			T11	Apr '72	"	135

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Phloroglucinol			SF.R5		pc	72
			SF.R		tlc	73
Polyhydroxyphenols	1×10^{-9}		SF.R1	Aug '72	tlc	
i-Propyl-p-phenols		KK	SF.R5	1970/71	glc ms	4,148
4-n-Propylphenol		EPA	E.I5		glc ms	2
Pyrocatechol			SF.R5		pc	72
			SF.R		tlc	73
	0.5×10^{-3}		E.I23			129
Quinoline	1.5×10^{-3}	EPA	E.I9		glc ms	2
			SF.R17		"	29
Resorcinol	up to 150×10^{-3}		E.I12		glc	70
			SF.R5		pc	72
Salicylic acid		EPA	E.D1		glc ms	
Saligenin			SF.R5		pc	72
Tannic acid	$0.51-1.70 \times 10^{-3}$		E.D3		c	111
	1.6×10^{-3}	WRC	E.D3b	1972	c	
Thymol			SF.R5		pc	72
Total volatile phenols	$0.008-0.1 \times 10^{-3}$		SF.L5			130
2,4,6-Trimethylphenol *	0.1×10^{-6}	RID	SF.R5			
Vanillin	0.02	EPA	E.I5		glc ms	2
2,3-Xylenol	$5-117 \times 10^{-3}$		E.I12		glc	70

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
2,4-Xylenol	0.1×10^{-3}	WPRL	LF		glc	
2,4- & 3,5-Xylenol	$41\text{-}242 \times 10^{-3}$		E.I12		glc	70
2,5-Xylenol	0.82×10^{-3}	EPA	E.I9		glc ms	2
	$10\text{-}57 \times 10^{-3}$		E.I12		glc	70
2,6-Xylenol	0.3×10^{-3}	WPRL	LF		glc	
	$4\text{-}138 \times 10^{-3}$		E.I12		"	70
3,4-Xylenol	0.5×10^{-3}	EPA	E.I9		glc ms	2
	$5\text{-}60 \times 10^{-3}$		E.I12		glc	70
3,5-Xylenol	1.5×10^{-3}	EPA	E.I9		glc ms	2
	0.3×10^{-3}	WPRL	LF		glc	

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
HETEROCYCLICS						
Alkyl pyridines						
Barbital *			SF.R17		glc ms	29
Benzofuran		EPA	T12		glc ms	154
		KK	SF.R5	1970/71	glc ms	4,148
Caffeine	$\sim 10 \times 10^{-6}$	EPA	E.D1		hplc uv	74
Carbazole	0.3×10^{-3}	EPA	E.I9		glc ms	2
			SF.R17		"	29
Dibenzofuran	0.12×10^{-3}	EPA	E.I9		glc ms	2
		"	E.I18.		"	"
		"	SF.R11		"	20
Dibenzofuran isomer		EPA	E.I8		glc ms	2
3,3-Dimethyl oxindole		KK	SF.R5	1970/71	glc ms	4
Dimethyl pyridine isomer	$0.1\text{-}0.2 \times 10^{-3}$	EPA	E.I9		glc ms	2
1,7-Dimethylxanthine		EPA	E.D1		hplc uv	74
Indican	$\sim 2 \times 10^{-6}$	EPA	E.D1		sf glc hplc	
Indole			SF.R		pc	72
			SF.R5/E.D3			122
Indole acids			SF.R5		pc	72
Inosine		EPA	E.D1		hplc uv glc ms	74
2,5-Lutidine			SF.R5		glc ms	23
2-Methyl-4-ethyldioxolane		EPA	E.I26		glc ms	2
2-Methyl-5-ethylpyridine	6.2×10^{-6}		SF.R10		glc ir	25
Methylethylpyridine *	1.0×10^{-6}	RID	SF.R5			
3-Methylindole			SF.R5		pc	72
		EAWAG	E.D3	Apr '74	glc ms	124

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type of sample (2)	Date of Sampling (3)	Analysis and/or Estimation (4)	
1-Methylinosine		EPA	ED.1		hplc	
Methylpropylpyridine		KK	SF.R5	Nov '71	glc ms	4
Methyl pyridine		EPA	SB/LF		glc ms	147
1-Methylxanthine	17×10^{-6}	EPA	E.D1		hplc uv	74
3-Methylxanthine		EPA	E.D1		hplc uv	74
7-Methylxanthine	$\sim 90 \times 10^{-6}$	EPA	E.D1		hplc uv	74
Pentylpyridine			SF.R5		glc ms	23
β-Picolylpropylether		KK	SF.R5	Nov '71	glc ms	4,148
Piperdine *			T10		glc ms	134
Pyridine	$5\text{-}17.4 \times 10^{-3}$ $15.0\text{-}23.4 \times 10^{-3}$		E.I23 E.I12 SF.R5/E.I			75 " 122
Pyrrole			SF.R5/ED3			122
Skatole acetic acid			SF.R5		pc	72
Theobromine		EPA	E.D1		hplc	74
Trimethylindole			SF.R17		glc ms	29
2,4,6-Trimethylpyridine	0.3×10^{-3}	EPA	E.I9		glc ms	2
Trimethytrioxohexahydro-triazine *	0.07×10^{-6}	EPA	T1			
Thymine	$\sim 7 \times 10^{-3}$	EPA	E.D1		hplc glc	
Uracil	13×10^{-6}	EPA	E.D1		hplc	74

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Uric acid	20×10^{-6} 10×10^{-6}	EPA	E.D1 E.D3		uv glc ms hplc uv glc	76
Xanthine	70×10^{-6}	EPA	E.D1		hplc ms	74

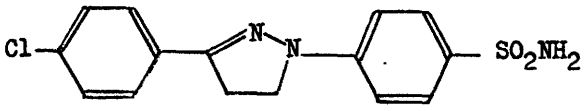
Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
SURFACTANTS						
Alkyl benzene sulphonate, (ABS)						
	$3.5–100 \times 10^{-3}$		SF.R57			77
	0.5×10^{-3}		SF.R58			78
	10×10^{-3}		SB4			79
	up to 0.14×10^{-3}		SF.R59,T7	up to 1961		"
	up to 0.6×10^{-3}		SB5			83
	$0.01–3 \times 10^{-3}$		SF.R60			84
	0.5×10^{-3}		"			85
	$1.0–11 \times 10^{-3}$		SF.R61			86
	$0.1 \times 12 \times 10^{-3}$		SF.R36			"
	$4–45 \times 10^{-3}$		E.D1 (USA)			"
	$14–17 \times 10^{-3}$	WPRL	E.D1		c	80
	13.1×10^{-3}	"	E.D2		"	"
	1.45×10^{-3}	"	E.D3b		"	"
	12.0×10^{-3}		E.D3		"	81
	$1.5–12.5 \times 10^{-3}$		"		"	82
	$3.08–3.5 \times 10^{-3}$		E.D1 (Fr.)		"	32
	$1–15 \times 10^{-3}$		E.D1 (USA)			"
	$0.7–4.5 \times 10^{-3}$		SF.R62			"
	0.125×10^{-3}		SF.R9			"
	0.03×10^{-3}		SF.R63			"
	up to 1.11×10^{-3}		SF.R19	1963/64		87
	$23.2–33.6 \times 10^{-3}$		E.D1 (It.)	1962		88
	5.4×10^{-3}		E.D1 (Ger)	pre. LAS		89
	$0.06–0.15 \times 10^{-3}$		SF.R36	1965		"
	$0.01–0.02 \times 10^{-3}$		SF.R59			"
	3.0×10^{-3}		E.D3 (UK)	'62(preLAS)		"
	1.3×10^{-3}		"	'65(postLAS)		"
	5.0×10^{-3}		E.D3a (USA)	up to '65		"
	0.7×10^{-3}		"	post '65		"
ABS (linear)	$<0.01 \times 10^{-3}$		SF.R60			90
	$<0.01 \times 10^{-3}$		SF.R59			91
ABS + linear alkyl sulphonates						
	$0.06–0.15 \times 10^{-3}$		SF.R36			89
	$0.01–0.02 \times 10^{-3}$		SF.R59	pre '60		"
	$0.5–1.3 \times 10^{-3}$		SF.R60	1959		"
	0.056×10^{-3}		"	1959–65		"
	0.022×10^{-3}		"	1965/66		"
	$15–34 \times 10^{-6}$		T8	1959/60		92
	$<0.5 \times 10^{-3}$		SF.R59			"

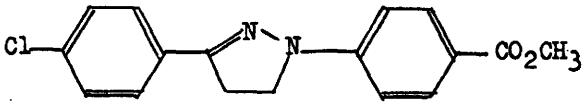
Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Anionic detergent	$1.5\text{-}12.5 \times 10^{-3}$		E.D3		c	111
Anionic detergents (as Manoxol OT)	1×10^{-3}	WRC	E.D3b	Jan '71	c	
Dodecyl benzene sodium sulphonate	$.02\text{-}.10 \times 10^{-3}$		SF.R1	Sept '72	tlc	
Dodecyl bezene sulphonic acid	$.02\text{-}1.0 \times 10^{-3}$		SF.R1	Sept '72	tlc	
Non-ionic detergent (as Lissapol NX)	0.53×10^{-3}	WRC	E.D3b	Jan '71	tlc	

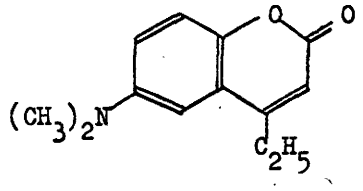
Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
OPTICAL BRIGHTENERS (see Fig. 1 for molecular structures)						
A 1 Pyrazoline type A	$<10^{-12}$	WPRL	E.D3b	Jun '72	tlc	
2 Pyrazoline type B	$<10^{-12}$	WPRL	E.D3b	Jun '72	tlc	
3 Coumarin type	0.3×10^{-9}	WPRL	E.D3b	Jun '72	tlc	
4 Thiophene type	$<10^{-12}$	WPRL	E.D3b	Jun '72	tlc	
5 Coumarin triazole type	$<10^{-12}$	WPRL	E.D3b	Jun '72	tlc	
6 Quinoline type	$<10^{-12}$	WPRL	E.D3b	Jun '72	tlc	
B 7 p-Aminostilbene type	$\sim 0.8 \times 10^{-6}$	WPRL	E.D3b	Jun '72	tlc	
8 "	$\sim 0.3 \times 10^{-6}$	WPRL	E.D3b	Jun '72	tlc	
9 "	$\sim 0.1 \times 10^{-6}$	WPRL	E.D3b	Jun '72	tlc	
p-Aminostilbene types 7, 8 and 9						
Total trans-isomer	0.8×10^{-6}	WPRL	E.D3b	Jun '72	sf	
Total cis-isomer	0.4×10^{-6}	WPRL	E.D3b	Jun '72	sf	
Total	1.2×10^{-6}	WPRL	E.D3b	Jun '72	sf	
Total fluorescing material (as Blankophor MBHH, B7 in Fig. 1)	0.12×10^{-3}	WPRL	E.D3b	Jun '72	fp	
2,5-Di-(benzoxazole-2-yl) thiophene	40×10^{-3}		S.SS		tlc ms nmr	93
	up to 2×10^{-3}		S.F(liver)		"	"

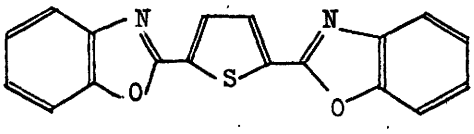
Fig. 1. Structural Formulae of Optical Brighteners

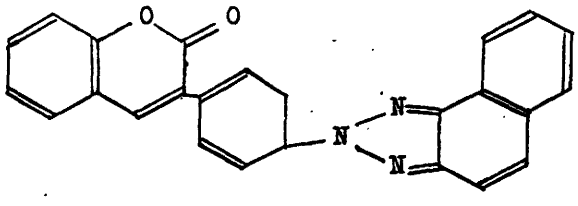
A. Textile finishers

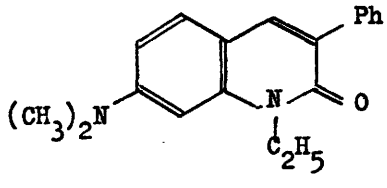
1.  Pyrazoline type

2.  Pyrazoline type

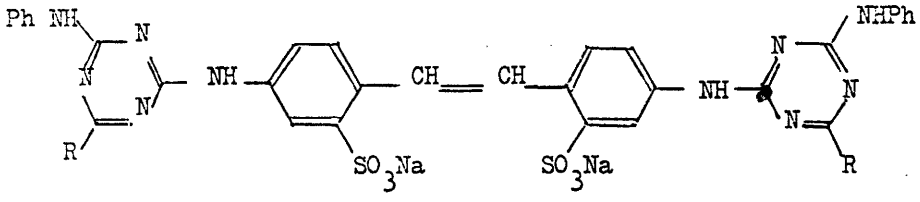
3.  Coumarin type

4.  2,5-di-(benzoxazol-2-yl) thiophene

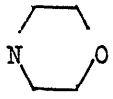
5.  Coumarin-triazole type

6.  Quinoline type

B) Cotton fluorescers



p-amino stilbene type

7. Type A – Dimorpholino R = 

8. Type B – Tetra-anilino R = – NHPh

9. Type C – Di-N-methylethanolamino R = $-NCH_2CH_2OH$ (with CH_3 on N)

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
ETHERS, ALDEHYDES AND KETONES:						
Acetone						
*	1.0×10^{-6}	RID	SF.L16			
		EPA	T1			36
		CEN	SF.R	June '72	glc ms	
*			SF.R5/E.I			122
			E.I23		glc ms	146
Acetophenone						
	41×10^{-6}		SF.R10		glc ir	25
		EPA	T1			36
	0.29×10^{-3}	"	E.I13		glc ms	2
		"	E.I8		"	"
Acetosyringone						
	0.14×10^{-3}	EPA	E.I5		glc ms	2
Acetovanillone						
	0.025×10^{-3}	EPA	E.I5		glc ms	2
Anethole isomers						
		EPA	E.I5		glc ms	2
		"	SF.R19/I5		"	"
Benzaldehyde						
		EPA	E.I5		glc ms	2
Benzophenone						
*	1.0×10^{-6}		T6			
Benzyl ether						
*	1.0×10^{-6}	RID	SF.R5			
2-Butanone						
			E.I23		glc ms	146
*			T10		"	134
2-Butoxyethanol						
		EPA	E.I		glc ms	48
1-(2-Butoxyethoxy)ethanol						
*		EPA	T12		glc ms	154
t-Butyl acetophenone						
			SF.L1	1973	glc ms	10,123
p-t-Butyl acetophenone						
*	1.0×10^{-6}	RID	E.D3			

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Camphor						
	30×10^{-6}	EPA	T1,E.I5		glc ms	24
		"	E.I5		"	
		"	SF.R19/E.I5		"	
			SF.L1,T3,SB6]	1973	"	10,123
*	0.9×10^{-6}	EPA	SF/LF		"	147
α-Camphanone						
		EPA	T1		glc ms	36
			SF.L1		glc ms	10
Cyclocitral						
			SF.L1	1973	glc ms	10,123
Cyclohexanone						
*	1.0×10^{-6}	RID	SF.R5			
*	0.1×10^{-6}	"	T6			
Cyclohexylether						
*	0.5×10^{-6}	"	"			
Diacetone alcohol						
		EPA	E.I5		glc ms	48
*	10.9×10^{-6}	"	SB/LF		"	147
Dibutoxyethoxyethoxymethane						
*		EPA	T12		glc ms	154
Didecylether						
			SF.R5		glc ms	23
1,1-Diethoxypropane						
		EPA	SF.R19		glc ms	2
		"	SF.R19/E.I5		"	"
Diethylether						
		CEN	SF.R	1972	glc ms	
Dihydrocarvone						
*	0.14×10^{-6}	EPA	T1			
3,4-Dihydroxyacetophenone						
		EPA	E.I5		glc ms	20
Dimethoxyacetophenone *			T11		"	135
3,4-Dimethoxyacetophenone						
		EPA	E.I5		glc ms	20
*			"		"	159
3,4-Dimethoxybenzaldehyde						
		EPA	E.I5		glc ms	20

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Dimethoxy benzene		EPA	T1			36
3,4-Dimethoxyethylbenzene		EPA	E.I5		glc ms	20
3,5-Dimethoxy-4-hydro		EPA	E.I5		glc ms	2
3,4-Dimethoxypropiophenone		EPA	E.I5		glc ms	20
Diphenylene oxide		KK	SF.R5		glc ms	148
Diphenylether			SF.R17		glc ms	29
		KK	SF.R5	1970/71	"	4,148
			T3 & SF.L1		"	22
			SF.L1		"	10
		EPA	E.I10		"	2
		"	SF.R11/E.I10]		"	20
			SF.R15		"	23
*	0.2×10^{-6}		SF.R5			141
*	0.1×10^{-6}	RID	T6			
Diphenyl-phenylether		KK	SF.R5	1970/71	glc ms	4,148
Ditolylether		KK	SF.R5	1970/71	glc ms	4,148
			SF.R17		"	23
2-Ethoxyethanol *			E.I23		glc ms	146
Ethyl acetophenone *			T11		glc ms	135
Ethyl benzylether *	1.0×10^{-6}	RID	T6			
Fenchone		EPA	E.I5		glc ms	2
*	50×10^{-6}	RID	E.I23			
*	0.2×10^{-6}	EPA	SB/LF		glc ms	147
Furfural		EPA	E.I5		glc ms	2
	0.002×10^{-3}	"	E.I16		"	"
	1.7×10^{-6}	"	"		"	20

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Hexadieneal		EPA	E.I10		glc ms	2
p-Hydroxyacetophenone		EPA	E.I5		glc ms	2
p-Hydroxybenzaldehyde		EPA	E.I5		glc ms	2
4-Hydroxy-3-methoxypropiophenone		EPA	E.I5		glc ms	2
α-Hydroxy-α-methyl-2-pentanone *	1.0×10^{-3}	RIV	E.I23			
bis-2-Hydroxypropylether *		EPA	SB/LF		glc ms	147
1-Idanone		EPA	LF		glc ms	20
Isobutanal			T2		glc ms	9
Iso-octenone			SF.L1 & T3		glc ms	22
Isophorone *	2.9×10^{-6}	EPA	T1			
4-Methoxybenzaldehyde		EPA	E.I5		glc ms	20
1-Methoxy-4-pentylbenzene		EPA	E.I5		glc ms	20
1-Methoxy-4-(1-propenyl)benzene		EPA	E.I5		glc ms	20
p-Methoxypropiophenone		EPA	E.I5		glc ms	20
Methyl 3,4-dimethoxybenzoate		EPA	E.I5		glc ms	20
Methyl 3,4-dimethoxybenzyl ether		EPA	E.I5		glc ms	2
Methyl 2-pentalone			SF.L1		glc ms	10

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
n-Nonyl aldehyde		EPA	SF.R19/E.I5		glc ms	2
Norcamphor		EPA	E.I5		glc ms	2
Paraldehyde			T3 & SF.L1		glc ms	22
Phenyl ether	0.05×10^{-3}	EPA	T & SF.R E.I18		glc ms	38 2
Propyl phenyl ether		KK	SF.R5	1970/71	glc ms	4, 148
Quaicol methyl ether *			E.I5		glc ms	159
Syringaldehyde	0.01×10^{-3}	EPA	E.I5		glc ms	2
Total aldehydes (as formaldehyde) *	0.11×10^{-3}		SF.L10			131
3,4,5-Trimethoxyacetophenone		EPA "	E.I5 "		glc ms "	2 20
Vanillin methyl ether *			E.I5		glc ms	159
Veratraldehyde		EPA	E.I5		glc ms	2
Veratrole		EPA	T1		glc ms	24

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
ACIDS						
6,8,11,13-Abietatetraen-18-oic acid		EPA	E.I5		glc ms	2
13-Abieten-18-oic acid		EPA	E.I5		glc ms	2
Abietic acid		EPA	E.I5		glc ms	2
		"	"		"	20
*			T10		glc ms	134
*			E.I23		"	146
Acetic acid						
	25.2×10^{-6}		SF.R36		glc	94
	540×10^{-3}	WRC	LF		"	
	$2\text{-}120 \times 10^{-6}$		SF.L5		lc	95
			SF.R19,36		pc lc	96
	10×10^{-3}	WRC	E.D1		lc	80
*		EPA	SB/LF		glc ms	147
*	0.19×10^{-3}	WRC	E.D3b	1974	glc	
Adipic acid						
	3.7×10^{-3}	EPA	E.I18		glc ms	2
			SF.R59		glc	97
Anteisomargaric acid		EPA	E.I5		glc ms	2
		"	E.D1		glc	
		"	E.D3a		"	
Anteisopentadecanoic acid		EPA	E.I5		glc ms	2
		"	E.D1		glc	
Arachidonic acid		EPA	E.I5		glc ms	2
Benzoic acid			SF.R36		glc	58
		EPA	E.D1		hplc glc ms	
			SF.R5		pc	72
Butyric acid			E.I23		glc ms	146
*	0.18×10^{-6}		SF.R36			94
			SF.R59		glc	97
		EPA	E.D1		"	
			SF.R5/E.D3			122
	1.0×10^{-3}	WRC	E.D1		lc	80
*	1.5×10^{-6}	EPA	SB/LF		glc ms	147

Substance (1)		Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
l-Butyric acid							
		27×10^{-3}	WRC	LF		glc	
		$0.2\text{-}1.3 \times 10^{-6}$		SF.R36		"	94
			EPA	E.D1		"	
	*	48.7×10^{-6}	"	SB/LF		glc ms	147
	*	$<20 \times 10^{-6}$	WRC	E.D3b	1974	glc	
n-Butyric acid							
		110×10^{-3}	WRC	LF		glc	
		up to 7.5×10^{-6}		SF.L5		lc	95
		$0.1\text{-}0.4 \times 10^{-6}$		SF.R36		glc	94
				"		"	58
	*	5×10^{-6}	WRC	E.D3b	1974	"	

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Caproic acid	220×10^{-3}	EPA	E.I18 SF.R36		glc ms glc	2 58
	2.5×10^{-6}		SF.R36 SF.R59		glc	94 97
*	1.1×10^{-6}	EPA	SB/LF		glc ms	147
i-Caproic acid						
*	$<2 \times 10^{-6}$	WRC	E.D3b	1974	glc	
n-Caproic acid						
*	5×10^{-6}	WRC	E.D3b	1974	glc	

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
i-Caproic acid	$<10 \times 10^{-3}$	WRC	LF		glc	
n-Caproic acid	17×10^{-3}	WRC	LF		glc	
	$0.3\text{-}6.2 \times 10^{-6}$		SF.R36		"	94
Crotonic acid	32×10^{-3}	WRC	LF		glc	
Cyclohexanecarboxylic acid *	2.8×10^{-6}	EPA	SB/LF		glc ms	147
Decanoic acid (capric)		EPA	E.I5		glc ms	20
		"	E.D1		glc	
*			E.D3		glc ms	133
Dehydroabietic acid	20×10^{-6}	EPA	E.I9		glc ms	2
	0.4×10^{-3}	"	E.I5		"	"
		"	E.I8		"	"
		"	SF.R/E.I5		"	20
10,12-Dimethy tridecanoic acid		EPA	E.I5		glc ms	2
Docosanic acid (C_{22}, behenic)	0.1×10^{-6}	EPA	E.D3a		glc	
			SF.R5		glc ms	23
		EPA	E.I5		"	2
Dodecanoic acid (lauric)			SF.R5		glc ms	23
		EPA	E.I5		"	20
	0.5×10^{-6}	"	E.D1		glc	
	0.3×10^{-6}	"	E.D3a		"	
		"	E.D7		"	
*			E.D3		glc ms	133
Eicosanoic acid (C_{20}, arachidic)		EPA	SF.R/I5		glc ms	2,20
			SF.R5		"	23
	0.3×10^{-6}	EPA	E.D1		glc	
2-Ethylhexanoic acid *	4.2×10^{-6}	EPA	SB/LF		glc ms	147
Fumaric acid			SF.R59		glc	97
Formic acid	$10\text{-}24 \times 10^{-6}$		SF.R36		glc	94
	$3\text{-}18 \times 10^{-6}$		SF.L5		lc	95
			SF.R19,36		lc pc	96
Fulvic acid	$0.3\text{-}29.0 \times 10^{-6}$		T5		uv	98
Glutamic acid	10×10^{-6}	WRC	E.D3b	Jan '73	hplc c	

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Heptadecanoic acid (C_{17}, margaric)						
	0.5×10^{-6}	EPA	E.I5		glc ms	2
	0.2×10^{-6}	"	E.D1		glc	
		"	E.D3a		"	
		"	E.D7		"	
Heptanoic acid						
*	1.0×10^{-6}	EPA	SB/LF		glc ms	147
		"	E.I5		"	20
			SF.R36		glc	58
Higher fatty acids (as C)		EPA	E.D1		"	
	$71\text{-}74 \times 10^{-3}$	WRC	E.D1			80
Hippuric acid						
	2×10^{-6}	WRC	E.D3b	Jan '73	hplc c	
Homovanillic acid		EPA	E.I5		glc ms	2
Humic acid	$\sim 20\text{-}50 \times 10^{-3}$	SLEE	SB	Feb '73	ir	
	1×10^{-3}	"	T	Jan '73	"	
β-Hydroxymyristic acid						
	$>0.1 \times 10^{-6}$	EPA	E.D1 & 7		glc	
β-Hydroxypalmitic acid						
	$>0.1 \times 10^{-6}$	EPA	E.D7		glc	
β-Hydroxystearic acid						
	$>0.1 \times 10^{-6}$	EPA	E.D1		glc	
Isobutyric acid						
	0.3×10^{-6}		SF.R			94
Isopalmitic acid		EPA	E.I5		glc ms	2
Isopimaric acid						
		EPA	E.I5		glc ms	2
		"	SF.R/I5		"	20
Isovaleric acid						
	0.22×10^{-6}		SF.R			
Lactic acid						
			SF.R59		glc	97
			SF.R19,36		lc pc	96
Lignoceric acid		EPA	E.I5		glc ms	20
Linoleic acid		EPA	E.I5		glc ms	2

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Maleic acid			SF.R59		glc	97
Malonic acid			SF.R59		glc	97
Mandelic acid		EPA	E.I5		glc ms	2
13-Methylpentadecanoic acid		EPA	E.I5		glc ms	2
Myristic acid			SF.R5		glc ms	23
		EPA	E.I5		"	2
		"	"		"	20
	5×10^{-6}	WRC	E.D3b	Nov '72	"	
	1.3×10^{-6}	EPA	E.D1		glc	
	0.5×10^{-6}	"	E.D3a		"	
	0.1×10^{-6}	"	E.D7		"	
*			E.D3		glc ms	133
2-Naphthoic acid	0.16×10^{-3}	EPA	E.I9		glc ms	2
Neoabietic acid		EPA	E.I5		glc ms	2
Nonadecanoic acid, (C_{19})		EPA	E.D1		glc	
Nonanoic acid, (pelargonic)			SF.R5		glc ms	23
		EPA	E.I5		"	20
*			E.D3		"	133
Octanoic acid, (caprylic)		EPA	E.I5		glc ms	20
			SF.R36		glc	58
			SF.R5		glc ms	23
		EPA	ED.1		glc	
*	0.6×10^{-6}	"	SB/LF		glc ms	147
Oleic acid		EPA	E.I5		glc ms	2
			SF.R5		"	23
		EPA	E.I8		"	"
	25×10^{-6}	WRC	E.D3b	Nov '72	"	
	7.0×10^{-6}	EPA	E.D1		glc	
	1.3×10^{-6}	"	E.D3a		"	
	0.2×10^{-6}	"	E.D7		"	
Oxalic acid			SF.R59		glc	97

Substance (1)		Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
Palmitic acid				SF.R5		glc ms	23
		50 x 10^{-6}	WRC	E.D3b	Nov. '72	"	
			CEN	SF.R	1972	"	
			EPA	E.I14		"	2
			"	E.I8		"	"
		13 x 10^{-6}	"	E.I5		"	"
			"	SF.R/E.I5		"	20
		28 x 10^{-6}	"	E.D1		glc	
		6 x 10^{-6}	"	E.D3a		"	
		0.6 x 10^{-6}	"	E.D7		"	
	*			E.D3		glc ms	133
Palmitoleic acid							
		0.5 x 10^{-6}	EPA	E.D1		glc	
		0.4 x 10^{-6}	"	E.D7		"	
			"	E.I5		glc ms	2
Pentadecanoic acid							
				SF.R5		glc ms	23
			EPA	E.I5		"	2
		0.3 x 10^{-6}	"	E.D1		glc	
		0.3 x 10^{-6}	"	E.D3a		"	
			"	E.D7		"	
	*			E.D3		glc ms	133
Phenylacetic acid							
		~10 x 10^{-6}	EPA	E.D1		hplc glc	
			"	E.D3a		glc	
			"	E.D7		"	
Phenylpropionic acid							
			EPA	E.D1		glc	
o-Phthalic acid							
		200 x 10^{-6}	EPA	E.D1		hplc uv ms	
				SF.R5		glc ms	23
Phthalic anhydride							
	*		EPA	T12		glc ms	154
	*	1.0 x 10^{-6}	RID	T6			
Pimaric acid							
		0.12 x 10^{-3}	EPA	E.I5		glc ms	2
			"	SF.R/E.I5		"	20
Propionic acid							
		215 x 10^{-3}	WRC	LF		glc	
		up to 7x10^{-6}		SF.L5		lc	95
		0.1-0.8x10^{-6}		SF.R36		glc	94
		2.6 x 10^{-3}	WRC	E.D1		lc	80
	*	70 x 10^{-6}	"	E.D3b	1974	glc	
	*			E.I23		glc ms	146

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Stearic acid						
	0.02×10^{-3}	EPA	E.I5		glc ms	2
		"	E.I14		"	"
		"	SF.R/E.I5		"	20
	0.1×10^{-3}	WRC	E.D3b	Nov '72	"	
			SF.R5		glc ms	23
	32×10^{-6}	EPA	E.D1		glc	
	10×10^{-6}	"	E.D3a		"	
	0.3×10^{-6}	EPA	E.D7		glc	
*			E.D3		glc ms	133
Succinic acid						
			SF.R59		glc	97
Total organic acids (as equiv./l)						
	$12\text{-}420 \times 10^{-6}$		SF.R16,L5			32
Total soluble acids						
(as C)	$21.0\text{-}34.5 \times 10^{-3}$	WRC	E.D1			80
(as C)	1.78×10^{-3}	"	E.D3b			"
Tannins (as tannic acid)						
	1.6×10^{-3}	WRC	E.D3b	Jan '72	c	
Terephthalic acid						
	0.1×10^{-3}		SF/E.I			99
Tetracosanic acid, (C_{24}, lignoceric)						
		EPA	SF.R/E.I5		glc ms	2
Toluic acid						
	0.24×10^{-3}	EPA	E.I13		glc ms	2
Undecanoic acid						
		EPA	E.I5		glc ms	20
			SF.R36		glc	58
*			E.D3		glc ms	133
Valeric acid						
	0.16×10^{-6}		SF.R			
	0.5	EPA	E.I18		glc ms	2
	0.4×10^{-3}	WRC	E.D1		lc	80
	1.1×10^{-6}	EPA	SB/LF		glc ms	147
i-Valeric acid						
	52×10^{-3}	WRC	LF		glc	
	$0.1\text{-}1.7 \times 10^{-6}$		SF.R36		"	94
		EPA	E.D1		"	
*	0.7×10^{-6}	"	SB/LF		glc ms	147
*	2.5×10^{-6}	WRC	E.D3b	1974	glc	

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
n-Valeric acid	55×10^{-3}	WRC	LF		glc	
	$0.1\text{-}0.3 \times 10^{-6}$		SF.R36		"	94
			SF.R59		"	97
*	2.5×10^{-6}	WRC	E.D3b	1974	"	
*			E.I23		glc ms	146

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
ESTERS						
6,8,11,13-Abietatetraen-18-oate		EPA	SF.R/E.I5		glc ms	20
Benzyl butyl phthalate						
*		EPA	SB/LF		glc ms	141
*		"	T12		"	154
*		EAWAG	T3, SB6, SF.R69		"	136
*	0.81×10^{-6}	EPA	T1			
n-sec-Butyl acetate						
*	5.0×10^{-6}	RID	SF.L16			
*	0.5×10^{-6}	"	T6			
n-Butyl benzoate	$0.1-0.5 \times 10^{-6}$		SF.R25/I21	1972-73	glc ms	68
Butylcarbobutoxymethyl phthalate						
*		EPA	SB/LF		glc ms	147
Dialkyl phthalate			T & SF.L1		glc ms	22
Dibutyl phthalate			SF.R25/I.21	1972-73	glc ms	68
		KK	SF.R5	1970-71	"	4,148
			SF.R12		"	5
	$0.2-2 \times 10^{-3}$	WRC	E.D3b	Nov. '72	"	
	5×10^{-6}	"	SF.R6	Sept. '72	"	
		EPA	LF		"	20
	0.35×10^{-3}		SF.R66		glc	100
*	ND - 0.1	EPA	S.F.-SF.L6	1971-72	"	158
*	10.0×10^{-6}	RID	SF.R5			
*	0.19×10^{-6}	EPA	T1			
*	1.0×10^{-6}	RID	T6			
*		EPA	SB/LF		glc ms	147
*	ND-120 $\times 10^{-3}$	"	S.SD-SF.L6	1971	glc	158
	up to 147×10^{-6}	"	SF.R60	1972	"	"
	$55-250 \times 10^{-6}$	"	E.D3	"	"	"
	0.1×10^{-3}	SETUDE	SF.RL	1972-74	glc ms	
*			T10		"	134
*		EPA	T12		"	154
*		EAWAG	T3, SB6, SF. R69		"	136
Di-iso-butyl phthalate						
	$\sim 0.01-0.1 \times 10^{-6}$	SETUDE	SF.RL	1972-74	glc ms	
*	0.1×10^{-6}	EPA	SB/LF		"	147

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Dicyclohexyl phthalate						
*	0.2×10^{-6}	EPA	SB/LF		glc ms	147
Diethyl phthalate						
*	4.1×10^{-6}	EPA	SB/LF		glc ms	147
			SF.R25/I21	1972-73	"	68
*	2.0×10^{-6}	RID	SF.R5			
*	0.03×10^{-6}	EPA	T1			
*	$0.5\&0.1 \times 10^{-6}$	RID	T6			
*		EPA	T12		glc ms	154
*		EAWAG	SB6, SF.R69		"	136
Di-2-ethyl-n-butyl phthalate						
		EPA	LF		glc ms	20
Didecyl phthalate						
		WRC	E.D3b	Nov. '72		
Di-(2-ethylhexyl)adipate						
*		KK	SF.R5		glc ms	148
Di-(2-ethylhexyl)phthalate						
			SF.R12		glc ms	5
			SF.R25/I21	1972/73	"	68
		WRA	SF.R6	Sept. '72		
		KK	SF.R5	1970/71	glc ms	4,148
		EPA	SF.R59		glc ms ir nmr	20
*	ND-1.3	"	S.F.-SF.L6]	1971	glc	158
*	0.31×10^{-6}	"	T1			
*		"	T12		glc ms	154
*	$ND-218 \times 10^{-3}$	"	S.SD-SF.L6	1971	glc	158
*	$ND-760 \times 10^{-6}$	"	E.D3	"	"	"
Diethyl phthalate						
		EPA	E.I16		glc ms	2
		"	LF		"	20
Diheptyl phthalate						
		WRC	E.D3b	Nov. '72		
Dihexyl phthalate						
*	0.03×10^{-6}	EAWAG	T3, SB6, SF.R69]		glc ms	136
*		EPA	T1			
Dimethyl phthalate						
		EPA	E.I31		glc ms	2
		"	E.I16		"	"

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Dinonyl phthalate		WRC	E.D3b	Nov. '72		
Dioctyl adipate *	0.10×10^{-6}	EPA	T1			
Dioctyl phthalate *	2.4×10^{-6}	EPA	SB/LF		glc ms	147
	~0.1×10^{-3}	SETUDE	SF.RL	1972-74	"	
*			E.D3		"	133
*		EAWAG	T3, SB6, SF.R 69		"	136
Di-n-octyl phthalate		WRC	E.D3b	Nov. '72		
*	0.1×10^{-3}	RIV	E.I23			
Di-iso-octyl phthalate	0.1×10^{-3}	SETUDE	SF.RL	1972-74	glc ms	
1,3-Di-isopropylbenzene *	0.1×10^{-3}	RID	E.I23			
Dipropyl phthalate		KK	SF.R5	1970/71	glc ms	4, 148
*	0.14×10^{-3}	EPA	T1			
Bis-(2-ethylhexyl)azelate		EPA	E.I5		glc ms	2
Ethylphenyl phthalate		EPA	E.I		glc ms	2
Fatty acid methyl esters		KK	SF.R5		glc ms	4
Iso-octyl phthalate		EPA	E.I18		glc ms	2
Methyl abietate *			E.I5		glc ms	159
Methyl myristate *		KK	SF.RF		glc ms	148
Methyl palmitate			SF.R5		glc ms	23
*		EPA	T12		"	154
*			T11		"	135
*		KK	SF.R5		"	148

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Methyl stearate	2×10^{-6}	WRA	SF.R6	Sept. '72		
			SF.R5		glc ms	23
*		EPA	T12.		"	154
*		KK	SF.R5		"	148
Octyl butyl fumarate						
*			T11		glc ms	135
n-Octyl, 2-ethylhexyl phthalate		WRC	E.D3b	Nov. '72		
Pentadecanoic acid, methy ester						
*		KK	SF.R5		glc ms	148
Phenyl benzoate						
*		EPA	T12		glc ms	154
Total phthalate esters		EPA	E.I		glc ms	48
	$0.88\text{-}1.9 \times 10^{-6}$		SF.R12	May '72	hplc	101
		CEN	SF.R	1971/72		
Triethylorthoformate			SF.R		glc ms	23

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
ALCOHOLS						
Benzyl alcohol		EPA "	E.I E.I23		glc ms "	48 2
Borneol		EPA	E.I5		glc ms	20
1-Butanol	16×10^{-3}	EPA "	E.I23 E.I8		glc ms "	20 "
Butoxyethanol *		EPA	SB/LF		glc ms	147
2-Butoxyethanol		EPA	E.I23		glc ms	2
Caran-4-ol			SF.L1	1973	glc ms	10,123
Cineol			SF.L1, SB6	1973	glc ms	123
Cyclohexanol		KK	SF.R5	Nov. '71		4
		EPA	E.I18		glc ms	2
*	1.0×10^{-6}	"	SB/LF		"	147
*	10×10^{-6}	RID	SF.R5			
*	1.0×10^{-6}	"	T6			
1-Decanol	2.5×10^{-3}	EPA	E.I18		glc ms	20
	2.5×10^{-3}	"	E.I23		"	2
			SF.R5		"	23
Di-isobutyl carbinol	27×10^{-6}		SF.R10		glc ir	25
3,3-Diphenylpropanol		EPA	E.I		glc ms	48
		"	E.I23		"	2
Endo-?-camphanol		EPA	T1			36
Ethanol		CEI	SF.R	June '72		

Substance (1)		Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
Ethyl carbamate	*			E.I23		glc ms	146
	*		EPA	SB/LF		"	147
2-Ethyl hexanol		41×10^{-6}		SF.R10		glc ir	25
			KK	SF.R5			4
		19×10^{-6}	EPA	E.I5		glc ms	2
			"	E.I31		"	"
			"	SF.R/E.I32		"	"
	*	13×10^{-6}		T11		"	135
Eugenol and isomers			EPA	E.I5		glc ms	2
Exo-2-camphanol			EPA	T1			36
Fenchyl alcohol			EPA	SF.R19/I5		glc ms	2
			"	E.I5		"	"
	*	50×10^{-6}	RID	E.I23			
Geosmin		0.03×10^{-6}	EPA	SF.L9	Mar. '68	glc ms	20,102
			RID	SF.R67			103
	*	0.06×10^{-6}	"	T6			
Glycerol			EPA	E.D1		hplc	
Heptanol			KK	SF.R5	Nov. '71	glc ms	4
1-Hexanol		65×10^{-3}	EPA	E.I8,23		glc ms	2,20
				SF.R5		"	23
Isoborneol			EPA	T1			24
			"	E.I5		glc ms	20
Isopentyl alcohol		17×10^{-3}	EPA	E.I		glc ms	2
p-Menthen-1,8-ol			EPA	T1			36
Methanol		27×10^{-3}	WRC	LF		glc	
	*			E.I23		glc ms	146

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
α-Methylbenzyl alcohol		EPA			glc ms	48
3-Methylcyclopentan-1,2-diol		EPA	SB/LF		glc ms	147
2-Methylisoborneol		RID				103
	0.1×10^{-6}	EPA	T7,SF.R65 & SF.L9	Mar. '68	glc ms nmr	20,102
2-Methyl-2-pentanol			SF.L1	1973	glc ms	123
Monoterpenic alcohol		CEN	SF.R	June '72	glc ms	
1-Octanol	19×10^{-3}	EPA	E.I8,23		glc ms	2,20
1-Pentanol		EPA	E.D3a		glc ms	
*	1×10^{-9}		T10		"	134
Phenylmethyl carbinol	17×10^{-6}		SF.R10		glc ir	25
Phenyl octadecanol		KK	SF.R5	Nov. '71	glc ms	4
Phenylpropanol			SF.R5		glc ms	23
Propanol						
*	1×10^{-9}		T10		glc ms	134
2-Propanol						
*			E.I23		glc ms	146
Terpinene-4-ol		EPA	E.I5		glc ms	2
		"	SF.R19/I5		"	"
*	0.1×10^{-3}	RID	E.I23			
[illegible]pineol		CEN	SF.R	June '72	glc ms	
		EPA	E.I		"	48
	0.2×10^{-3}	"	E.I5		"	2
		"	E.I18		"	"
		"	E.I23		"	"
		"	SF.R11		"	20
	0.15×10^{-3}	RID	E.I23			

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
ARYLALKANES						
Alkylbenzene						
			SF.R17		glc ms	29
		KK	SF.R5	1970/71	"	4
		CEN	SF.R		"	
		ISU	SB.1		ms	1
Alkylindane						
		ISU	SB.1		ms	1
Azulene						
		EPA	E.I17		glc ms	24
C_4-Benzenes						
		UZ	T3 & SF.L1		glc ms	10,22
C_5-Benzenes						
		UZ	T3 & SF.L1		glc ms	10,22
C_6-Benzenes						
		UZ	T3 & SF.L1		glc ms	10,22
Butylbenzene						
		EPA	T1		glc ms	36
			SF.R5		"	23
*	0.1 x 10^{-6}	RID	T6			
t-Butylbenzene						
		KK	SF.R5	1970/71	glc ms	4
Cymene						
		UZ	SF.L1		glc ms	10
p-Cymene						
		KK	SF.R5	1970/71	"	4
		EPA	E.I10		"	2
		"	E.15		"	20
*		RID	E.I23			
Diethylbenzene						
		KK	SF.R5	1970/71	glc ms	4
*	50 x 10^{-6}		T11		"	135
Dimethyl benzene isomers						
		EAWAG	SF.L	1972		
		UZ	SF.L1		glc ms	10
*			T10		"	134
1,2-Dimethylbenzene						
		UZ	T3 & SF.L1		glc ms	22
*		EAWAG	T3,SB6,SF.R69]		"	136
1,3-Dimethylbenzene						
		UZ	T3 & SF.L1		glc ms	22
1,4-Dimethylbenzene						
		UZ	T3 & SF.L1		glc ms	22
1,3-&1,4-Dimethylbenzenes						
*		EAWAG	T3,SB6,SF.R69]		glc ms	136

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Dimethylethylbenzene			SF.L1,T3,S[illegible]	] 1973	glc ms	10,123
Diphenylethane		KK	SF.R5	1970/71	glc ms	4
		EPA	SF.R19/I5			2
Diphenylmethane *			E.D3		glc ms	133
Dodecylbenzene *			E.D3		glc ms	133
Ethylbenzene		EPA	T/SF.R36		glc ms	47
		"	T1			36
	1.2×10^{-6}		SF.R10		glc ir	25
	$<5 \times 10^{-6}$		SB.1		glc ms	1
		EPA	E.D3a		"	
			T3&SF.L1		"	10,22
		EAWAG	SF.L	1972		
		"	E.D3	Apr. '74	glc ms	124
*		"	T3,SB6,SF.R69]		"	136
Ethylindane			T3&SF.L1		glc ms	22
2-Ethyltoluene		EPA	E.I23		glc ms	2
			T3&SF.L1		"	22
*		EAWAG	T3,SB6,SF.R69]		"	136
*	0.04×10^{-6}	EPA	T1			
3-Ethyltoluene			T3&SF.L1		glc ms	
4-Ethyltoluene			T3&SF.L1		glc ms	
*	3×10^{-9}	EPA	T1			
3- & 4-Ethyltoluene *		EAWAG	T3,SB6,SF.R69]		glc ms	136
Ethylxylene *		RID	T6			
Heptylbenzene			SF.R5		glc ms	23
Hexylbenzene			SF.R5		glc ms	23

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Indane						
	7.0×10^{-6}	EPA	E.I		glc ms	48
		"	E.I8,23		"	2,20
			SF.L1		"	22
			SB.1		ms	1
		EAWAG	E.D3	Apr. '74	glc ms	124
Isobutylbenzene						
			SF.L1,T3,SB6]	1973	glc ms	10,123
Isopropylbenzene						
			SB1		glc ms	1
		KK	SF.R5	1970/71	"	4
		EPA	E.I		"	2
		EAWAG	E.D3	Apr. '74	"	124
Isopropyltoluene						
			SF.L1,T3,SB6]	1973	glc ms	10,123
Methylbiphenyl						
		EPA	T1			36
		"	E.I		glc ms	48
Methylcymene						
		KK	SF.R5	1970/71		4
1-Methyl-4-ethylbenzene						
		EPA	LF		glc ms	20
Methylindanes						
		UZ	SF.L1		glc ms	22
		EAWAG	E.D3	Apr. '74	"	124
Methylpropylbenzene						
			SF.L1,T3,SB6]	1973	glc ms	10,123
Methyl-iso-propylbenzene						
			SF.L1,T3,SB6]	1973	glc ms	123
1-Methyl-4-isopropylcyclohexa-1,3-diene *	75×10^{-6}	RID	E.I23			
Methylstyrene isomers						
	0.5×10^{-6}	CEN	SF.R	1972		
		EPA	E.I		glc ms	48
		"	E.I23		"	2
o-Methylstyrene						
		EPA	E.D3a		glc ms	
	1×10^{-6}	"	E.I8		"	20
Pentylbenzene						
			SF.R5		glc ms	23

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Pentylbenzene (contd)						
*	0.1×10^{-6}	RID	T6			
*	10×10^{-6}	"	E.I8			142
Propylbenzene			T3, SF.L1		glc ms	10,22
			SF.R5		"	23
		EAWAG	E.D3	Apr. '74	"	124
iso-Propylbenzene						
*			E.D3		glc ms	133
		EAWAG	T3, SB6, SF.R69]		"	136
Propyltoluene						
			T3 & SF.L1		glc ms	10,22
Styrene						
		EPA	T/SF.R36		glc ms	47
	2.6×10^{-6}	"	E.I16		"	20
			SF.R17		"	29
	1×10^{-6}		SF.R10		glc ir	25
		EPA	T1			36
	31×10^{-6}	"	E.I8		glc ms	20
		EPA	E.I		glc ms	48
	0.03×10^{-3}	"	E.I23		"	2
	0.003×10^{-3}	"	E.I16		"	"
*	1.0×10^{-6}	RID	SF.R40			
Tetralin						
	48×10^{-6}		SF.R10		glc ir	25
		EAWAG	E.D3	Apr. '74	glc ms	124
Tetramethylbenzene isomers						
		KK	SF.R5	1970/71	glc ms	4
			SF.L1		"	10
		EPA	E.I10		"	2
1,2,3,5-Tetramethylbenzene						
1,2,4,5-Tetramethylbenzene		UZ	SF.L1, T3, SB6]	1973	glc ms	123
			SF.L1, T3, SB]	1973	glc ms	123
Tetramethyldiphenylmethane						
		KK	SF.R5	1970/71	glc ms	4
Toluene						
		EPA	T/SF.R36		glc ms	47
		"	T1			36
		CEN	SF.R	1972		
	$<0.1 \times 10^{-3}$		T2		glc ms	9
		EPA	E.D3a		"	
			T3 & SF.L1		"	10,22
		EAWAG	E.D3	Apr. '74	"	124
*	1×10^{-9}		T10		"	134
*		EAWAG	T3, SB6, SF.R69]		"	136
*	10×10^{-6}	RID	E.I23			

Substance (1)		Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
Toluene (contd)							
	*	0.10×10^{-6}	EPA	T1			
	*	0.5×10^{-6}	RID	T6			
	*			T11		glc ms	135
Tri-t-butylbenzene			KK	SF.R5	1970/71	glc ms	4
Trimethyl benzenes							
	*			T10		"	134
1,2,3-Trimethylbenzene				T3 & SF.L1		glc ms	22
	*		EAWAG	T3, SB6, SF.R69]		"	136
1,2,4-Trimethylbenzene							
	*		EAWAG	T3, SB6, SF.R69]		glc ms	136
				T3 & SF.L1		"	22
			EAWAG	E.D3	Apr. '74	"	124
1,3,5-Trimethylbenzene				SF.L1, T3	1973	glc ms	123
	*		EAWAG	T3, SB6, SF.R69]		"	136
	*	10×10^{-6}	RID	SF.R5			142
	*	1.0×10^{-6}	"	T6			"
Trimethyldiphenylbenzene			KK	SF.R5	1970/71	glc ms	4
Trimethyldiphenylmethane			KK	SF.R5	1970/71	glc ms	4
m-Xylene		6.0×10^{-6}	EPA	E.I23		glc ms	2
		8×10^{-6}	"	E.I8		"	20
			EAWAG	E.D3	Apr. '74	"	124
	*	1×10^{-3}	RID	E.I8			142
	*	1.0×10^{-6}	"	T6			
o-Xylene		6.0×10^{-6}	EPA	E.I23		glc ms	2
		6.0×10^{-6}	"	E.I8		"	20
			EAWAG	E.D3	Apr. '74	"	124
	*	0.6 x 10	EPA	SB/LF		"	147
p-Xylene		2.0×10^{-6}	EPA	E.I23		glc ms	2
		2.0×10^{-6}	"	E.I8		"	20
			EAWAG	E.D3	Apr. '74	"	124
	*	0.9 x 10	E1	SB/LF		"	147
Xylene isomers		0.2×10^{-6}	CEN	SF.R	Oct. '71		
		0.30×10^{-3}		T2		glc ms	9
			EPA	E.I		"	48
			"	T/SF.R36		"	47
				SF.R5		"	23

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
ALKALES AND ALKENES						
n-Alkanes	$0.06-0.60 \times 10^{-3}$	KK	SF.R5	1972/3	glc ms	4
		RID	SF.R67	1971		104
		CEN	SF.R	1972		
		EAWAG	SF.L	"		
		WRC	SF.R6			
			SF.L1		glc ms	10
		EPA	E.I		"	48
		"	LF		"	20
	7.2×10^{-6}		SF.L2			105
	0.1×10^{-3}		SF.RU5			106
	$0.3-0.5 \times 10^{-3}$		SF.RL5			"
n-Alkenes		CEN	SF.R	1972		
			SF.L1		glc ms	10
C_9-C_{27} Alkanes *		EAWAG	T3,SB6,SFR69		glc ms	136
$C_{17}-C_{35}$ Alkanes *			E,D3		glc ms	133
$C_{21}-C_{24}$ Alkanes			T3 & SF.L1		glc ms	22
$C_{20}-C_{33}$ Alkanes	$0.2 - 3.8 \times 10^{-6}$		SF.R & L			107
Cadinene *	1×10^{-3}	RID	E.I8			142
Cyclohexane	0.36×10^{-3}		T2		glc ms	9
Cyclohexene	0.13×10^{-3}		T2		glc ms	9
1,5-Cyclooctadiene		EPA	E.I23		glc ms	2
		"	E.I		"	48
Cyclopentadiene	0.36×10^{-3}		T2		glc ms	9
Cyclopentane	0.16×10^{-3}		T2		glc ms	9

Substance (1)		Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
Cyclopentene & Methyl cyclopentene		0.32×10^{-3}		T2		glc ms	9
n-Decane isomers	*	0.03×10^{-6}	EPA	T1			
n-Decane		30×10^{-6}	EPA	E.I 23		glc ms	20
				T3 & SF.L1		"	22
	*	0.04×10^{-6}	EPA	T1			
	*	0.03×10^{-6}		T10		glc ms	134
iso-decane	*	0.05×10^{-6}		T10		glc ms	134
Dimethylstyrene			CEN	SF.R	June'72		
n-Dodecane		$0.031-0.22 \times 10^{-3}$	EPA	E.I 8		glc ms	20
			"	E.I 5		"	2
				T3 & SF.L1		"	22
	*	0.01×10^{-6}	EPA	T1			
Eicosane		0.3×10^{-3}	EPA	E.I 8		glc ms	20
				T3 & SF.L1		"	22
	*		EPA	T12		"	154
Ethylidenecyclopentane			EPA	E.I 5		glc ms	2
Ethyltoluene isomers			EPA	E.I		glc ms	48
				T3 & SF.L1		"	10,22
Heneicosane		0.19×10^{-3}	EPA	E.I 8		glc ms	20
Heptadecane				T3 & SF.L1		glc ms	22
			EPA	E.I 18		"	2
		$22-340 \times 10^{-6}$	"	E.I 8		"	20
			"	SF.R 11		"	"

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
1-Heptadecene			SF.L1,T3,SB6	1973	glc ms	123
Heptane			SF.L1,SB6	1973	glc ms	123
Hexadecane			T3 & SF.L1		glc ms	22
		EPA	E.I18		"	2
	26-420 x 10^{-6}	"	E.I8		"	20
		"	E.I5		"	2
		"	E.I23		"	"
		"	SF.R11		"	20
*		RVA	S.P & B - SF.L7	July'74	"	
Hydrocarbons (C_1-C_4)	12 x 10^{-3}		T2		glc ms	9

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	(5) References
1-Isopropenyl-4-isopropylbenzene		EPA	T1			36
Isodecane			T3 & SF.L1		glc ms	10,22
Isododecane			SF.L1		glc ms	10
			SF.L1,T3,SB6		"	123
Isononane			SF.L1	1973	glc ms	10,123
Isoundecane			SF.L1		glc ms	10
Isoundecene			T3 & SF.L1		glc ms	10,22
Limonene			SF.R17		glc ms	29
			SF.L1,SB6	1973		10,123
		EPA	E.I5		glc ms	20
*	0.2×10^{-3}	RID	E.I23			
*	0.03×10^{-6}	EPA	T1			
Methylcyclohexane			T11		glc ms	135
2-Methyl-4-isopropenylcyclohexane		CEN	SF.R	Jun '72		
Nonadecane			T3 & SF.L1		glc ms	22
	$0.013-0.31 \times 10^{-3}$	EPA	E.I8		"	20
n-Nonane			T10		glc ms	134
*	0.01×10^{-6}		T3 & SF.L1		"	22
*	5×10^{-6}	RID	E.I23			
*	0.03×10^{-6}	EPA	T1			
Octadecane			T3 & SF.L1		glc ms	22
	$17-330 \times 10^{-6}$	EPA	E.I8		"	20
		"	E.I8		"	2
		"	SF.R11		"	20
		"	T12		"	154
Octane			SF.L1,SB6	1973	glc ms	123
*	50×10^{-6}	RID	E.I23			
*			SF.R71		glc ms	135

Substance (1)	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				(5) References
		Laboratory	Type (2) of sample	Date (3) of Sampling	Analysis (4) and/or Estimation	
Pentadecane						
	$0.03-0.49\times10^{-3}$	EPA	T3 & SF.L1		glc ms	22
		"	E.I8		"	20
		"	E.I5;23		"	"
*	0.02×10^{-6}	"	T1			
1-Pentadecene						
			SF.L1	1973	glc ms	123
Pentane						
*			SF.R71		glc ms	135
Pentene						
	0.5×10^{-3}		T2		glc ms	9
β-Pinene						
		EPA	E.I5		glc ms	2
Pinene isomer						
	8.0×10^{-6}	EPA	E.I5		glc ms	2
Terpene						
			SF.L1			10
Terpinene						
*	0.2×10^{-3}	RID	E.I23			
Terpinolene						
		EPA	E.I5		glc ms	2
Tetradecane						
			T3 & SF.L1		glc ms	22
	$0.039-0.58\times10^{-3}$	EPA	E.I8		"	20
*	0.02×10^{-6}	"			"	
n-Tridecane						
			T1			
	$0.042-0.39\times10^{-3}$	EPA	E.I8		glc ms	20
		"	E.I5		"	"
			SF.L1	1973	"	123
*	0.01×10^{-6}	"	T1			
n-Undecane						
		EPA	E.I5		glc ms	20
	$27-50\times10^{-6}$	"	E.I8		"	"
	20×10^{-6}	"	E.I23		"	"
			T3 & SF.L1		"	22
*	10×10^{-6}	RID	E.I23			
*	0.02×10^{-6}	EPA	T1			
Undecane isomers						
*	0.10×10^{-6}	EPA	T1			

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
AMINO ACIDS & PROTEINS						
Alanine						
	5×10^{-6}	WRC	E.D3b	Jan '73	hplc c	
			SF.L11		pc	108
	11.2×10^{-3}		E.D1		"	109
	7.8×10^{-3}		E.D3a		"	"
	7.3×10^{-3}		E.D3b		"	"
	27.8×10^{-3}		S.AS		"	"
	6.3×10^{-3}		S.SS		"	"
2-Amino-n-butyric acid						
	0.1×10^{-3}	WRC	E.D3b	Jan '73	hplc c	
Arginine						
	10.6×10^{-3}		E.D1		pc	109
	6.4×10^{-3}		E.D3a		"	"
	7.0×10^{-3}		E.D3b		"	"
	12.8×10^{-3}		S.AS		"	"
	5.4×10^{-3}		S.SS		"	"
Asparagine						
	5.1×10^{-3}		E.D1		pc	109
	3.8×10^{-3}		E.D3a		"	"
	2.9×10^{-3}		E.D3b		"	"
	14.9×10^{-3}		S.AS		"	"
	9.6×10^{-3}		S.SS		"	"
Aspartic acid						
	0.1×10^{-6}	WRC	E.D3b	Jan '73	hplc c	
			SF.L11		pc	108
Creatine						
	0.4×10^{-3}	WRC	E.D3b	Jan '73	hplc c	
Creatinine (as C)						
	$2.7\text{-}3.5 \times 10^{-3}$	WRC	E.D1			80
Cystine						
	6.3×10^{-3}		E.D1		pc	109
	3.2×10^{-3}		E.D3a		"	"
	2.2×10^{-3}		E.D3b		"	"
	23.8×10^{-3}		S.AS		"	"
Glutamic acid						
	10×10^{-6}	WRC	E.D3b		hplc c	
			SF.L11		pc	108
	24.8×10^{-3}		E.D1		"	109
	15.3×10^{-3}		E.D3a		"	"
	14.6×10^{-3}		E.D3b		"	"
	50.8×10^{-3}		S.AS		"	"
	23.8×10^{-3}		S.SS		"	"
Glutamine						
	5×10^{-6}	WRC	E.D3b	Jan '73	hplc c	
Glycine						
			SF.L11		pc	108
	4.2×10^{-3}		E.D1		"	109
	3.6×10^{-3}		E.D3a		"	"
	2.4×10^{-3}		E.D3b		"	"
Glycine & serine						
	29.4×10^{-3}		S.AS		pc	109
	9.0×10^{-3}		S.SS		"	"

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Hippuric acid						
	2×10^{-6}	WRC	E.D3b		hplc c	
Histidine & Lysine						
	18.1×10^{-3}		E.D1		pc	109
	8.6×10^{-3}		E.D3a		"	"
	8.9×10^{-3}		E.D3b		"	"
	10.1×10^{-3}		S.AS		"	"
	1.1×10^{-3}		S.SS		"	"
Leucine						
	21.3×10^{-3}		E.D1		pc	109
	9.8×10^{-3}		E.D3a		"	"
	10.6×10^{-3}		E.D3b		"	"
	31.3×10^{-3}		S.AS		"	"
	8.6×10^{-3}		S.SS		"	"
Lysine & Histidine						
	18.1×10^{-3}		E.D1		pc	109
	8.6×10^{-3}		E.D3a		"	"
	8.9×10^{-3}		E.D3b		"	"
	10.1×10^{-3}		S.AS		"	"
	1.1×10^{-3}		S.SS		"	"
Phenylalanine						
	40×10^{-6}	WRC	E.D3b	Jan '73	hplc c	
	11.3×10^{-3}		E.D1		pc	109
	6.5×10^{-3}		E.D3a		"	"
	4.9×10^{-3}		E.D3b		"	"
	11.2×10^{-3}		S.AS		"	"
	9.7×10^{-3}		S.SS		"	"
Proline						
			SF.R		pc	72
Serine						
	0.5×10^{-6}	WRC	E.D3b	Jan '73	hplc c	
	2.4×10^{-3}		E.D1		pc	109
	1.9×10^{-3}		E.D3a		"	"
	1.5×10^{-3}		E.D3b		"	"
Threonine						
	0.3×10^{-6}	WRC	E.D3b	Jan '73	hplc c	
	5.6×10^{-3}		S.AS		pc	109
Total bound amino acids (as leucine)						
	0.49×10^{-3}	WRC	E.D3b	Jan '73	c	
Total free amino acids						
(as leucine)	1.44×10^{-3}	WRC	E.D3b	Jan '73	c	
(as N)	$2-25 \times 10^{-6}$		SF.R16,L5		"	32
(as C)	$2.0-5.0 \times 10^{-3}$	WRC	E.D1		"	80
(as C)	0.06×10^{-3}	"	E.D3b		"	"
	$\sim 1 \times 10^{-9}$		SF.L11			108
Total peptides						
	0.1×10^{-6}		SF.L11			108

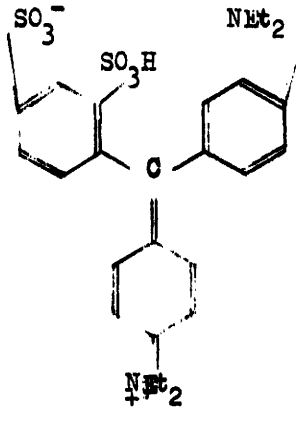
Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Total protein						
(as N)	$20\text{-}340 \times 10^{-6}$		SF.R16,L5		c	32
(as C)	$25.5\text{-}31 \times 10^{-3}$	WRC	E.D1		"	80
(as C)	2.99×10^{-3}	"	E.D3b		"	"
	$70\text{-}130 \times 10^{-6}$		T			110
	$1.6\text{-}7.4 \times 10^{-3}$		E.D3			111
Tryptophan						
			SF.R5		pc	72
	1.9×10^{-3}		S.SS		"	109
Tyrosine						
	9.7×10^{-3}		E.D1		pc	109
	6.8×10^{-3}		E.D3a		"	"
	7.1×10^{-3}		E.D3b		"	"
Tyrosine & Valine						
	22.4×10^{-3}				pc	109
Valine						
	0.1×10^{-3}	WRC	E.D3b	Jan '73	hplc c	

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
CARBOHYDRATES						
Allulose			E.D1,3		hplc c	74
Arabinose			E.D1,3		hplc c	74
Cellobiose			E.D1,3		hplc c	74
Deoxyribose			E.D1,3		hplc c	74
Fructose	12×10^{-6}	WRC	E.D3b	Sept '71	glc	
	up to 3.75×10^{-3}		E.D1		"	112
			E.D1,3		hplc c	74
Galactose	$< 1 \times 10^{-6}$	WRC	E.D3b	Sept '71	glc	
		EPA	E.D1		glc hplc	
	$0.10-3.20 \times 10^{-3}$		"		glc	112
			E.D1,3		hplc c	74
Glucose	34×10^{-6}	WRC	E.D3b	Sept '71	glc	
		EPA	E.D1		glc hplc	
	$0.35-19.5 \times 10^{-3}$		E.D1		glc	112
	$1-5 \times 10^{-6}$		SF.L12			113
	$1-5 \times 10^{-6}$		SF.L11			108
			E.D1,3		hplc c	74
Lactose			E.D1,3		hplc c	74
Maltose		EPA	E.D1		glc hplc	
			E.D1,3		hplc c	74
Mannose			ED1,3		hplc c	74
Raffinose			E.D1,3		hplc c	74
Rhamnose			E.D1,3		hplc c	74
Ribose			E.D1,3		hplc c	74
Sorbose			E.D1,3		hplc c	74
Sucrose	$3.15-4.45 \times 10^{-3}$		E.D1		glc	112
	$0.10-0.90 \times 10^{-3}$		E.D2		"	"
	up to 0.20×10^{-3}		"		"	"
	up to 0.10×10^{-3}		"		"	"
	up to 4.00×10^{-3}		"		"	"
	$2-10 \times 10^{-6}$		SF.L12			113
	$2-10 \times 10^{-6}$		SF.L11			108
			ED1,2		hplc c	74

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
Total carbohydrates (as glucose)	0.1×10^{-3}	WRC	E.D3b	Sept '71	c	
"	$0.8\text{-}2.4 \times 10^{-3}$		E.D3		"	111
as C	$55.0\text{-}330 \times 10^{-3}$	WRC	E.D1		"	80
"	1.63×10^{-3}	"	E.D3b		"	"
(as glucose)	$70\text{-}900 \times 10^{-6}$		SF.R16,L5			32
Total polysaccharides (as glucose)	1.7×10^{-3}	WRC	E.D3b	Sept '71	c	
	$36\text{-}138 \times 10^{-6}$		T		"	110
	$0.2\text{-}1.0 \times 10^{-3}$		SF.R16,L5			32
Xylose			ED1,3		hplc c	74

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key)				References
		Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	
STEROIDS						
Cholesterol						
	20×10^{-6}	WRC	E.D3b	Jun '71	hplc glc ms	
	1.1×10^{-6}	WRC	SF.R6	Oct '70	tlc glc	
	0.2×10^{-6}	"	"	Nov '70	"	
	1.1×10^{-6}	"	SF.RU	Oct '70	"	
	ND	"	SB.3	Nov '70	"	
	0.16×10^{-6}	"	"	Dec '70	"	
	62×10^{-6}	"	E.D3b	Oct '70	"	
	up to 2.5×10^{-6}	"	SF		"	114
Coprostanol						
	10×10^{-6}	WRC	E.D3b	Jun '71	hplc glc ms	
	0.8×10^{-6}	WRC	SF.R6	Oct '70	tlc glc	
	0.5×10^{-6}	"	"	Nov '70	"	
	ND	"	SF.RU	Oct '70	"	
	"	"	SB.3	Nov '70	"	
	0.26×10^{-6}	"	"	Dec '70	"	
	0.176×10^{-3}	"	E.D3b	Oct '70	"	
	up to 5.0×10^{-6}		SF		"	114
Total steroids (as cholesterol)						
	0.165×10^{-3}	WRC	E.D3b	Jun '71	c	
Total synthetic steroid hormones						
	100×10^{-6}		E.D1			115

Substance	Concentration (g/l-waters) (mg/Kg-solid samples)	Notes (see Key) Laboratory	Type of sample	Date of sampling	Analysis and/or Estimation	Ref.
PIGMENTS, ENZYMES, VITAMINS, NUCLEOSIDES & MISCELLANEOUS COMPOUNDS						
Adenosine		EPA	E.D1		uv glc hplc	
Amylase			SF			117
Biotin	$\sim 10^{-9}$		SF.L			118
Chbrophylls	$0.05\text{-}0.18 \times 10^{-6}$		SF.L5			119
Guanosine	50×10^{-6}	EPA	E.D1		uv glc ms hplc	
Nicotinic acid	$0.3\text{-}3.0 \times 10^{-6}$		SF.L10			120
	$\sim 10^{-9}$		SF.L			118
Pantothenic acid	$\sim 10^{-9}$		SF.L			118
Phosphatase			SF			117
Pteroylglutamic acid (folic acid)	0.26×10^{-6}		SF.R18			120
	$24\text{-}104 \times 10^{-9}$		SF.L10			"
	$\sim 10^{-9}$		SF.L			118
Saccharase			SF			117
Urochromes			SF.R5/E.D3			122
Vitamin B1 (thiamine)	$\sim 10^{-9}$		SF.L			118
Vitamin B_{12}	$5\text{-}28 \times 10^{-9}$		SF.L10			120
	$5\text{-}20 \times 10^{-9}$		SF.L13			121
Xanthophylls	$0.21\text{-}1.2 \times 10^{-6}$		SF.L5			119
CI Acid blue 1 or *	$8.7\text{-}12.0 \times 10^{-6}$	WRC	ED3	Aug '75	o	
CI Food blue 3 *	$2.5\text{-}6.0 \times 10^{-6}$	"	SF.R4	"	"	



BIBLIOGRAPHY

1. A. K. Burnham et al., Anal. Chem., 44, 1, (1972)
2. R. G. Webb et al., Environmental Protection Technology Series, EPA-R2-73-277, (Aug. 1973)
3. P. Wedgwood et al., Analyst, 81, 42, (1956)
4. W. Kölle et al., Vom Wasser, 39, 109, (1972)
5. R. A. Hites et al., Science, 178, 158, (1972) and J. Chromat. Sci., 11, 570, (1973)
6. J. Borneff et al., Arch Hyg. Bakt., 146, 572, (1963)
7. J. Borneff et al., ibid, 148, 226, (1965)
8. K. P. Ershova, Hyg. Sanit., 36, 316 (1971)
9. J. Novák et al., J. Chrom., 76, 45, (1973)
10. K. Grob, Forschung und Technik, Sept 10, 1973
11. J. Borneff, Arch. Hyg. Bakt., 153, 220, (1969)
12. J. K. Reichert, ibid, 152, 37, (1968)
13. K. P. Ershova, Gigiena i Sanit., 33, 268, (1968)
14. A. P. Il'nitskii et al., Hyg. Sanit., 36, 316, (1971)
15. N. N. Trakhtman et al., Gigiena i Sanit., 31, 316 (1966)
16. S. S. Bliokh, ibid, 30, 100, (1965)
17. S. N. Cherkinskii et al., ibid, 24, 11, (1959)
18. A. P. Il'nitskii et al., ibid, 29, 88, (1964)
19. L. N. Samoilovich, ibid, 33, 6, (1968)
20. L. N. Keith et al., Environmental Protection Technology Series, EPA-R2-73-155, (May 1973)
21. B. T. Croll, Wat. Treat. Exam., 21, 213, (1973)
22. K. Grob, J. Chrom., 84, 255, (1973)
23. A. P. Meijers, PhD Thesis-Technical University of Delft, (1970)
24. A. L. Alford, Environmental Protection Technology Series, EPA-660/2-73-013, (Sept 1973)
25. A. A. Rosen et al., J. Water Pollut. Contr. Fed., 35, 777, (1963)
26. B. T. Croll, Analyst, 97, 281, (1972)
27. M. I. Kazakova et al., Tr. Perm. Med. Inst., 61, 210, (1965)
28. L. S. Bark et al., Wat. Res., 6, 117, (1972)
29. A. P. Meijers, H_2O, 6, 244, (1973)
30. N. Takenura et al., Intern. J. Air Water Pollution, 9, 665, (1968)
31. L. I Nimtseva et al., Gidrokhim Mater., 41, 129, (1966)
32. A. D. Seminov, ibid, 45, 155, (1967)
33. L. Rudling, Wat. Res., 5, 831, (1971)
34. A. M. Hanson et al., J. Water Pollut. Contr. Fed., 43, 2271, (1971)
35. P. A. Frank et al., Weeds, 15, 353, (1967)
36. Environmental Protection Agency Report, "Industrial Pollution in the Lower Mississippi River Basin" (Louisiana), Baton Rouge Facility, Surveillance and Analysis Division, (1972)
37. F. M. Middleton et al., Ind. Eng. Chem., 52, 73A, (1960)
38. F. M. Middleton et al., Chem. Eng. Sym. Series, 45, (59), 26, (1963)
39. J. I. Teasley, Envir. Sci. Tech., 1, 411, (1967)
40. S. R. Weibel et al., J. Am. Wat. Wks Assoc., 58, 1075, (1966)
41. A. W. Breiderbach et al., Public Health Rept., 82, 139, (1967)
42. D. F. Metzler, in Dangerous Properties of Ind. Materials, Reinhold Book Corp., NY., 78, (1968)
43. D. B. Manigold et al., Pesticides Monitoring J., 3, 124, (1969)
44. C.Cottam, Proc. of the Nat. Conf. on Wat. Poll. US Dept of Health, Education and Welfare, PHS, (1961)
45. L. Weaver et al., Pub. Health Rept., 80, 431, (1965)
46. J. R. E. Jones, Fish and River Pollution, Butterworths, London, 118, (1964)
47. R. D. Kleopfer et al., Envir. Sci. Tech., 6, 1036, (1972)
48. J. M. McGuire et al., Environmental Protection Technology Series, EPA-R2-73-234, (July 1973)
49. R. S. Green et al., in Agriculture and the Quality of our Environment, (Ed. N. C. Brady), AAAS Publ., 85, 137, (1966)

50. W. E. Westlake et al., in Organic Pesticides in the Environment, Advances in Chemistry Series, ACS, 60, 110, (1966)
51. G. F. Lowden et al., Wat. Treat. Exam., 18, 275, (1969)
52. E Brown et al., Pesticides Monitoring J., 1, 38, (1967)
53. R. Massot, Report of Technical Note to 'COST' project 64b, Produits de dégradation du Pentachlorophenol dilué dans les eaux, (Oct. 1973)
54. A. V. Holden et al, J. Proc. Inst. Sew. Purif., 295, (1966)
55. S. Ya. Naishtein, Gigiena i Sanit., 34, 96, (1969)
56. S. P. Varshavskaya, ibid, 33, 15, (1968)
57. S. D. Faust et al., J. Am. Wat. Wks Assoc., 56, 267, (1964)
58. F.K. Kawakara, Envir. Sci. Tech., 5, 235, (1971)
59. J. Am. Wat. Wks. Assoc., 61, 23, (1969)
60. Envir. Currents, 3, 613, (1969)
61. W. F. Barthel, in Sym. on Pesticides and their Effects on Soil and Water, Columbus, Ohio, 128, (1965)
62. K. Iruhayama, in Advances in Water Pollut. Res., Washington DC, WPCF, 153, (1967)
63. T. Tsubaki, Naika, 21, 871, (1968)
64. G. D. Veith et al., Wat. Res., 5, 1107, (1971)
65. D. J. Dube et al., J. Water Pollut. Contr. Fed., 46, 966 (1974)
66. L Rudling, Wat. Res., 4, 533, (1970)
67. B. J. Kallman et al., Tr. Am. Fish Soc., 91, 14, (1962)
68. R. A. Hites, J. of Chrom. Sci., 11, 570, (1973)
69. R. W. Bovey et al., J. Envir. Quality, 3, 61, (1974)
70. R. L. Cooper et al., Wat. Res., 7, 1375, (1973)
71. R. P. Hoak, J. Air and Water Pollut., 6, 521, (1962)
72. J. Holluta et al., Vom Wasser, 22, 212, (1955)
73. H. Thielemann, Z. Chem., 9, 189, (1969)
74. S. Katz et al., Wat. Res., 6, 1029, (1972)
75. F. G. Dyatlovitskaya, USSR Lit. on Water Supply and Water Pollut. Contr., US Dept of Commerce, 2, 118, (1962)
76. J. O'Shea et al., J. Water Pollut. Contr. Fed., 37, 1444, (1965)
77. R. Marchetti, Riv. Ital. Sostange Grasse, 45, 27, (1968)
78. S. K. Banerju, J. Water Pollut. Contr. Fed., 462, 939, (1968)
79. H. I. Shuval, Bull. World Health Organ., 27, 791, (1962)
80. H. A. Painter et al., J. Inst. Sew. Purif., 302, (1961) and J. Biochem. and Microbiol. Tech. and Eng., 1, 143, (1959)
81. M Rebhun et al., Envir. Sci. Tech., 5, 606, (1971)
82. R. L. Bunch et al., J. Water Pollut. Contr. Fed., 33, 122, (1961)
83. G. E. Oliver, J. Am. Wat. Wks Assoc., 53, 301, (1961) and Ibid, 53, 297, (1961)
84. J. J. Morgan et al., Ibid, 52, 471, (1960)
85. Can. Med. Assoc. J., 90, 1089, (1964)
86. C. Henderson et al., Sew. and Ind. Wastes, 31, 295, (1959)
87. K. E. F. Hokanson, Dissert. Absts., 29B(3), 1212B, (1968)
88. G. Vivoli et al., Igiene Mod., 59, 346, (1966)
89. W. T. Sullivan et al., Envir. Sci. Tech., 2, 194 (1968)
90. W. T. Sullivan et al., Ibid, 3, 481, (1969)
91. W. T. Sullivan et al., Ibid, 3, 481, (1969)
92. T. E. Brenner, in Advances in Envir. Sciences, Wiley-Interscience, NY, 151, (1969)
93. S. Jensen et al., Environ. Pollut., 2, 145, (1971)
94. J. J. Murtaugh et al., J. Water Pollut. Contr. Fed., 37, 410, (1965)
95. I. A. Goncharova et al., Gidrokhim Mater, 47, 110, (1968)
96. H. F. Mueller et al., Anal. Chem., 32, 687, (1960)
97. W. L. Lamar et al., US Geological Survey Water Supply Paper 1817-A (1966)
98. A. L. Wilson, J. Appl. Chem., 9, 501, (1959)
99. V. M. Prusakov, Vopr. Kommunal. Gig., 6, 94, (1966)

100. Katuse Takeo, Koggo Yosui, 169, 19, (1972)
101. R.A.Hites, Environ. Health Perspectives, 17, (1973)
102. A. A. Rosen et al., Wat. Treat. Exam., 19, 106, (1970)
103. G. J. Piet et al., Wat. Treat. Exam., 21, 4, (1972)
104. B. C. J. Zoeteman, H_2O, 5, 489, (1972)
105. J. Holluta et al., Gas Wasserfach, 108, 370, (1967)
106. H. Hellman et al., Deut. Gewasserk. Mitt., 14, 14, (1970)
107. G. Peake et al., J. Amer. Oil Chemists Soc., 43, 215, (1964)
108. M. H. Briggs, Life Sci., 1, 377, (1962)
109. F. Jursík, Sci.Papers from Inst. Chem. Tech., Prague, Faculty of Tech. Fuel and Water, 4, 221, (1960)
110. E. F. Barth et al., J. Amer. Wat. Wks Assoc., 959, (1962)
111. R. L. Bunch et al., Paper No. 8, Conf. Biolog. Waste Treat., Manhattan College, NY, (April 1960)
112. L. S. Bark et al., Wat. Res., 5, 1161, (1971)
113. J. R. Vallentyne et al., Science, 124, 1026, (1956)
114. J. J. Murtaugh et al., J. Water Pollut. Contr. Fed., 39, 404, (1967)
115. H. Tabak et al., In Developments in Industrial Microbiology, Washington DC, 367, (1970)
116. P. H. Abelson, Science, 169, 3942:1, (1970)
117. J. Overbeck et al., Naturwissenschaften, 50, 571, (1963)
118. H. Clemencon, Schweig Z. Hydrol., 25, 157, (1963)
119. A. D. Seminov et al., Gidrokhim Mater., 49, 96, (1969)
120. K. Kashiwada et al., Kagoshima Daigaku Suisan Gakabu Kiyo, 11, 158, (1962)
121. D. Gerome, C. R. Acad-Sci Ser D., 272, 808, (1971)
122. J. Holluta, Bull. Schweig Ver. Gas. Wasserfachmann, 40, 105, (1960)
123. K. Grob et al., J. Chrom., 90, 303, (1974)
124. W. Giger et al., Paper for publication in 'Vom Wasser', 1974.
125. V. E. Sinel 'nikov, Kayan. Med. Zh., 3, 83, (1968)
126. P. A. Greve, The Sci. of the Total Envir., 1, 173, (1972)
127. M. Aknoff et al., Anal. Chem., 46, 659, (1974)
128. H. J. C. Wiesner et al., J. Res. US geol. Surv., 1, 603, (1973)
129. A. S. Maslennikov et al., Gigiena i Sanit., 30, 76, (1965)
130. O. G. Lanchikova et al., Gidrokhim Mater, 54, 43, (1970)
131. E Kamata, Bull. Chem. Soc. Japan, 39, 1227, (1966).
132. C. Melchiorri et al., Nuovi Annali d'Igiene e Microbiologia, 24, 279, (1973).
133. J. Manka et al., Envir. Sci. Tech., 8, 1017, (1974).
134. M. A. Scheiman et al., Biomed. Mass Spect., 1, 209, (1974).
135. A. K. Burnham et al., J. Am. Wat. Wks Assoc., 65, 722, (1973).
136. K. Grob et al., J. Chrom., 106, 299, (1975).
137. J. B. Andelman et al., Bull. W.H.O., 43, 479, 1970.
138. R. E. Keegan. Doct. dissert., University of New Hampshire, USA (1971).
139. A. P. Il'nitskii et al., Vopr. Onkol., 16, 78, (1970); C.A. 73, 123343d, (1970).
140. A. P. Il'nitskii et al., ibid 18, 49, (1972); C.A. 76, 89789d, (1972).
141. A. P. Meyers. Quarterly KIWA/RIWA report. (1974).
142. G. J. Piet et al., The Sci. of the Total Envir., 3, 103, (1974).
143. J. Borneff et al., Arch. Hyg. Bakt., 151, 202, (1967).
144. J. Reichert et al., Zbl. Bakt. Hyg., I. Abt. Orig. B155, 18, (1971).
145. L. Rudling. Wat. Res., 6, 871, (1972).
146. L. E. Harris et al. Anal. Chem., 46, 1912, (1974).
147. J. M. Robertson et al. Environmental Protection Technology Series, EPA-660/2-74-077; (Sept. 1974).
148. H. Güsten et al. Arh. hig. rada, 25, 207, (1974).
149. J. J. Rook. Wat. Treat. Exam., 234, (1974).
150. T. A. Bellar et al. Environmental Monitoring Series, EPA-670/4-74-008 (Nov. 1974). J. Amer. Wat. Wks. Assoc., 12, 703, (1974).
151. G. E. Glass, National Water Quality Lab, Duluth, Minnesota 55804. Private communication (1975).

152. W. H. Glaze, North Texas State University, Denton, Texas 76203. Private communication (1975).
153. R. W. Bovey et al. J. of Envir. Qual., 4, 103, (1975).
154. M. Deinzer et al., Wat. Res. 9, 799, (1975).
155. L. M. Law et al. Pesticides Monitoring J., 8, 33, (1974).
156. B. Dowty et al. Science, 187, 75, (1975).
157. R. L. Jolley. J. Water Pollut. Contr. Fed., 47, 601, (1975).
158. R. A. Schacht. Ecological Research Series, EPA-660/3-74-002 (Jan. 1974).
159. E. J. Bonelli et al. Eff and Wat. Treat. J. 12, 87, (1972).

COMPOUND INDEX

Dipropyl phthalate	93
Dithiane (P-)	61
Ditolylether	79
Docosanic acid (C22, behenic)	85
Dodecane (N-)	104
Dodecanoic acid (Lauric)	85
Dodecylbenzene	99
Dodecylbenzene sodium sulphonate	73
Dodecylbenzene sulphonic acid	73
Eicosane	104
Eicosanoic acid (C20, arachidic)	85
Endo-2-Camphanol	95
Endosulfan (thiodan), (a- & β-, α-)	45
Endrin	45
Ethanol	95
Ethoxyethanol (2-)	79
Ethylacetophenone	79
Ethylamine	15
Ethylbenzene	99
Ethylbenzylether	79
Ethylcarbamate	15
Ethylcarbamate	96
EDTA	16
Ethylhexanoic acid (2-)	85
Ethylhexanol (2-)	96
Ethylhexylazelate (Bis-2-)	93
Ethylidenecyclopentane	104
Ethylindane	99
Ethylisothiocyanate	61
Ethylnaphthalene isomer	7
Ethylphenol (o-, m-, p-)	65
Ethylphenylacetamide (N-)	16
Ethylphenyl phthalate	93
Ethyltoluene (2-,3-,4-)	99
Ethyltoluene isomers	104
Ethyltoluidine (N-)	16
Ethylxylene	99
Eugenol and isomers	96
Exo-2-camphanol	96
Fatty acid methyl esters	93
Fenac	46
Fenchone	79
Fenchylalcohol	96
Fluoranthene	7
Fluoranthene and pyrene	7
Fluorene	7
Fluorescing material, total	74
Food CI blue 3 or C I acid blue 1	114
Formic acid	85
Formylthiophene (2-)	61
Fructose	111
Fulvic acid	85
Fumaric acid	85
Furfural	79
Galactose	111
Gallic acid	65
Geosmine	96
Glucose	111
Glutamic acid	85
Glutamic acid	108
Glutamine	108
Glycerol	96