

DRAFT - Table 3. Blood test results for nine subjects, Summer 2000.

SUBJECT	1	2	3	4	5	6	7	8	9	relative	range		test detectic	U.S. average or	unit
										toxicity average			limit	typical range	
Metals															
Lead	3.23	3	2.11	2.28	3	2.09	1.41	2.94	2.49		2.51	1.41 - 3.23		3	µg/dL
Methyl mercury	25.9	4	0.92	7.94	25.6	5.1	2.79		0.63		9.11	0 - 25.9	0.54	0.5-5	µg/L
Dioxins															
2,3,7,8-TCDD (tetradoxin)	4.77	5.38*	5.7	5.38*	5	7.12	5.1	3.09	5.51	100%	5.2	3.1 - 7.1	varies	5.38	pg/g
1,2,3,7,8-PeCDD (pentadoxin)	9.83	11.6	8.4	13.2	8.73	14.5	9.93	7.02	8.23	100%	10.2	7.02 - 14.5	varies	10.7	pg/g
1,2,3,4,7,8-HxCDD (hexadoxin)	4.1	9.26	3.99	6.24	4.14	5.45	3.36		3.97	10%	5.06	0 - 9.26	varies	75.1	pg/g
1,2,3,7,8,9-HxCDD (hexadoxin)	7.24	7.32	3.42	6.67	3.19	9.96	6.4	5.17	6.76	10%	6.24	3.19 - 9.96	varies	11.7	pg/g
1,2,3,6,7,8-HxCDD (hexadoxin)	36.3	58.3	35.9	40.1	27.3	52.4	28.8	20.1	34.3	10%	37.1	20.1 - 58.3	varies		pg/g
1,2,3,4,6,7,8-HpCDD (heptadoxin)	103	125	36.9	106	33.3	117	54	58.2	50.4	1%	76.0	33.3 - 125	varies	110	pg/g
1,2,3,4,6,7,8,9-OCDD (octadoxin)	1592	1104	296	906	178	714	414	496	399	1%	678	178 - 1592	varies	724	pg/g
Furans															
2,3,7,8-TCDF (tetrafuran)										10%			varies	1.88	pg/g
1,2,3,7,8-PeCDF (pentafuran)										5%			varies	0.31	pg/g
2,3,4,7,8-PeCDF (pentafuran)	7.66	9.76	7.51	8.46	7.01	11	5.85	2.87	5.7	50%	7.31	2.87 - 11	varies	9.7	pg/g
1,2,3,4,7,8-HxCDF (hexafuran)	5.51	7.43	3.19	4.93	3.31	5.28	3.99	3.63	4.9	10%	4.69	3.19 - 7.43	varies	7.42	pg/g
1,2,3,7,8,9-HxCDF (hexafuran)	0.724		1.35		1.09		0.529	0.55		10%	0.47	0 - 1.35	varies	0.44	pg/g
1,2,3,6,7,8-HxCDF (hexafuran)	4.79	7.54	3.85	6.25	3.25	7.04	3.95	2.75	4.19	10%	4.85	2.75 - 7.54	varies	5.78	pg/g
2,3,4,6,7,8-HxCDF (hexafuran)	2.54	3.76	1.96	4.4	2.55	1.95	1.21	1.89	2.83	10%	2.57	1.21 - 4.4	varies	0.54	pg/g
1,2,3,4,6,7,8-HpCDF (heptafuran)	22.6	18.9	7.36	10	5.39	6.43	9.07	7.78	6.67	1%	10.47	5.39 - 22.6	varies	15.3	pg/g
1,2,3,4,7,8,9-HpCDF (heptafuran)	2.22	1.84	1.27	1.3	1.21		0.725	0.522	1.03	1%	1.12	0 - 2.22	varies	0.73	pg/g
1,2,3,4,6,7,8,9-OCDF (octafuran)	58.3	30.5	12	18.8	8.08	2.87	10.5	3	8.39	1%	16.9	2.87 - 58.3	varies	2.28	pg/g
TEQ for dioxins and furans (Total relative toxicity expressed as pg/g 2,3,7,8-TCDD)	42.3	44.0	26.8	40.1	24.0	43.7	27.7	20.6	26.9		32.9	20.6 - 44.0		39.8	pg/g
Polychlorinated Biphenyls (PCBs)															
Di-CB															
PCB-8	3240	1910	4990	1940	5080	4560	1050	1460	2630			1050 - 5080	varies		pg/g
Tri-CB															
PCB-18	2120		3880	1390	3380	3330			1550			1390 - 3880	varies		pg/g
PCB-28	3010	3610	5810	2390	4220	5680	2200	1880	2300			1880 - 5810	varies		pg/g
PCB-37													varies		pg/g
Tetra-CB															
PCB-52	2160	1470	4470		3030	3930			1770			1470 - 4470	varies		pg/g
PCB-49			2140			1790						1790 - 2140	varies		pg/g
PCB-47	1000		1860		1860	1300	1360					1000 - 1860	varies		pg/g
PCB-44	1350		3180		1880	2240						1350 - 3180	varies		pg/g
PCB-42													varies		pg/g
PCB-64			1680		1450	1280						1280 - 1680	varies		pg/g
PCB-74	8730	16000	5980	4530	8100	25400	8400	5080	6700			4530 - 25400	varies		pg/g
PCB-70	1510		3030		2940	3030						1510 - 3030	varies		pg/g
PCB-80													varies		pg/g
PCB-66	1900	2000	2890		2610	3460	1500		1650			1500 - 3460	varies		pg/g
PCB-60			1460			1650						1460 - 1650	varies		pg/g
PCB-79													varies		pg/g
PCB-78	2200	2210	2830	2510	2730	2780	1500	1800	2300			1500 - 2830	varies		pg/g
PCB-81										0.01%			varies		pg/g
PCB-77										0.01%			varies		pg/g
Penta-CB															
PCB-95	3640	1400	8850		5940	7730						1400 - 8850	varies		pg/g
PCB-91													varies		pg/g
PCB-92													varies		pg/g
PCB-84/101	5150		13100		8670	9770			2950			2950 - 13100	varies		pg/g
PCB-99	11200	10300	5630	2260	8110	13200	10400	3450	6510			2260 - 13200	varies		pg/g
PCB-119													varies		pg/g
PCB-97													varies		pg/g
PCB-86													varies		pg/g
PCB-87	1550		2230		1930	1990						1550 - 2230	varies		pg/g
PCB-120													varies		pg/g
PCB-110	1880		3390		2870	3150			1310			1310 - 3390	varies		pg/g
PCB-82													varies		pg/g
PCB-123										0.01%			varies		pg/g

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SUBJECT	1	2	3	4	5	6	7	8	9	relative toxicity		test detectic		U.S. average or		unit
										average	range	limit	typical	range		
PCB-118	11000	16700	10700	7470	9280	30800	12800	7370	14800	0.01%		7370 - 30800	varies			pg/g
PCB-114										0.05%			varies			pg/g
PCB-105/127	2180	2900				4980	2400			0.01%		2180 - 4980	varies			pg/g
PCB-126										10%			varies			pg/g
Hexa-CB																
PCB-151	1620		4560		3230	4410						1620 - 4560	varies			pg/g
PCB-149	3020		9630		6320	9470						3020 - 9630	varies			pg/g
PCB-146	5410	5830	3370	2040	5450	7520	3090	1320	2640			1320 - 7520	varies			pg/g
PCB-153	48400	48900	26100	15600	47200	64000	31900	9800	25300			9800 - 64000	varies			pg/g
PCB-168			1890		1460	1950						1460 - 1950	varies			pg/g
PCB-141			1650		1530	1810						1530 - 1810	varies			pg/g
PCB-137	2630	2940			2070	2880	1870		1520			1520 - 2940	varies			pg/g
PCB-138	35700	35900	18500	8000	32200	47200	25600	8160	19300			8000 - 47200	varies			pg/g
PCB-158													varies			pg/g
PCB-166													varies			pg/g
PCB-128/167	2080	2690				3830				0.001%		2080 - 3830	varies			pg/g
PCB-156	8050	14600	5050	3510	8190	9100	4650	1550	5050	0.05%		1550 - 14600	varies			pg/g
PCB-157	2520	3300			2060	2240	1050			0.05%		1050 - 3300	varies			pg/g
PCB-169										1%			varies			pg/g
Hepta-CB																
PCB-179	1390		3020		2730	3650						1390 - 3650	varies			pg/g
PCB-187	21600	19700	9540	8410	21000	24100	11700	2640	11300			2640 - 24100	varies			pg/g
PCB-183	7390	6080	3320	1650	7850	8680	6110	1100	4490			1100 - 8680	varies			pg/g
PCB-185													varies			pg/g
PCB-174			1840		2220	3080						1840 - 3080	varies			pg/g
PCB-177	4780	4340	2460	1600	6040	6740	2580		3310			1600 - 6740	varies			pg/g
PCB-171	2760	3190	1640		3550	3460	2080		1660			1640 - 3550	varies			pg/g
PCB-180	61300	71800	35700	30700	4960	63300	34300	8490	35200			4960 - 71800	varies			pg/g
PCB-191					8960							8960 - 8960	varies			pg/g
PCB-170	18800	18300	7970	5730	18400	17600	7740	1760	7530			1760 - 18800	varies			pg/g
PCB-190		4030	1690	1390	3230	2720	2090					1390 - 4030	varies			pg/g
PCB-189										0.01%			varies			pg/g
Octa-CB																
PCB-200													varies			pg/g
PCB-198		14800			15600		7730					7730 - 15600	varies			pg/g
PCB-201	12100	16400	7390	14500	17400	12700		1430	9900			1430 - 17400	varies			pg/g
PCB-196/203	7630	9610	5050	7430	12300	8230	5850		7170			5050 - 12300	varies			pg/g
PCB-195													varies			pg/g
PCB-194	7830	10600	5330	9730	13400	7510	4880		5970			4880 - 13400	varies			pg/g
PCB-205													varies			pg/g
Nona-CB																
PCB-208		2700		1960	1490	1400	903					903 - 2700	varies			pg/g
PCB-207													varies			pg/g
PCB-206	2170	4840	1730	4620	3920	2770	2030		2850			1730 - 4840	varies			pg/g
Deca-CB																
PCB-209	3020	9670	2000	4810	3840	3390	2540		2420			2000 - 9670	varies			pg/g
Total PCBs																
Total Di-CB	3240	1910	4990	1940	5080	4560	1050	1460	2630			1050 - 5080		<8780 - <26100		pg/g
Total Tri-CB	5130	3610	9690	3780	7600	9010	2200	1880	3850			1880 - 9690		<12200 - 48100		pg/g
Total Tetra-CB	16700	19500	26700	7040	21900	44100	11300	6880	10100			6880 - 44100		<12000 - 330,000		pg/g
Total Penta-CB	36600	31300	43900	9730	36800	71600	25600	10800	25600			9730 - 71600		<20500 - 612,000		pg/g
Total Hexa-CB	109000	114000	70800	29200	110000	154000	68200	20800	55200			20800 - 154000		<26100 - 1,006,000		pg/g
Total Hepta-CB	118000	127000	67200	48100	78940	133000	66600	14000	63500			14000 - 133000		<26900 - 1,149,000		pg/g
Total Octa-CB	27600	51400	17800	31700	58700	28400	18500	1430	23000			1430 - 58700		<19800 - 413,000		pg/g
Total Nona-CB	2170	7540	1730	6580	5410	4170	2940	0	2850			0 - 7540		<19800 - 119,000		pg/g
Total Deca-CB	3020	9670	2000	4810	3840	3390	2540	0	2420			0 - 9670		<25200 - 107,000		pg/g
TEQ for PCBs (Total relative toxicity expressed as pg/g 2,3,7,8-TCDD)																
	6.6	10.9	3.6	2.5	6.1	9.3	4.4	1.5	4.7		5.5	1.5 - 10.9				pg/g
Organochlorine Pesticides																
Hexachlorobenzene					89.9							89.9 - 89.9		F 50.4, M 52.3		pg/g
alpha-BHC																pg/g
Lindane						50.0						50.0 - 50.0				pg/g

DRAFT - Table 3. Blood test results for nine subjects, Summer 2000.

SUBJECT	SUBJECT									relative toxicity average	range		test detectic limit	U.S. average or typical range	unit
	1	2	3	4	5	6	7	8	9						
beta-BHC	36.0		42.0	251.7	51.2	56.0	35.3	1090.9	72.6		204.5	35.3 - 1090.9		F 179, M 133	pg/g
delta-BHC				27.5								27.5 - 27.5			pg/g
Heptachlor			46.6									46.6 - 46.6			pg/g
Aldrin															pg/g
Heptachlor epoxide					45.5				41.6			41.6 - 45.5		F 55.5, M 19.9	pg/g
gamma-chlordane								78.6				78.6 - 78.6			pg/g
alpha-chlordane															pg/g
4,4'-DDE	242.6	38.4	107.1		474.0	340.7	329.3	94.8			232.4	38.4 - 474.0		F 2430, M 2240	pg/g
Endosulfan I															pg/g
Dieldrin															pg/g
Endrin															pg/g
4,4'-DDD															pg/g
Endosulfan II			246.0	16.9	798.8		55.5				279.3	16.9 - 798.8			pg/g
4,4'-DDT	86.2	81.1	80.4	43.8		118.3	99.5	108.2			88.2	43.8 - 118.3		F 181, M 172	pg/g
Endrin aldehyde															pg/g
Methoxychlor	402.7	921.1	903.7	170.3		1247.6	1070.2		860.9		796.6	170.3 - 1247.6			pg/g
Mirex							185.7					185.7 - 185.7			pg/g
Endosulfan sulfate			91.3									91.3 - 91.3			pg/g
Endrin ketone	106.3					345.5		171.3	292.6		229.0	106.3 - 345.5			pg/g
Phthalates															
Dimethyl phthalate		0.5	1.7	0.6	1.9	1.2			0.9		1.1	0.5 - 1.9			ug/g
Diethyl phthalate	1.7	0.6	6.1	0.9	3.1	1.8			0.9	2.4	2.2	0.6 - 6.1			ug/g
Di-n-butyl phthalate	34.8	17.3	57.3	18.8	94.2	39.0	32.1	26.0	49.6		41.0	17.3 - 94.2			ug/g
Butyl benzyl phthalate				0.8								0.8 - 0.8			ug/g
Bis(2-ethylhexyl)phthalate	160.4	51.0	904.8	49.3	128.9	97.2	104.6	64.9	512.4		230.4	49.3 - 904.8			ug/g
Di-n-octyl phthalate			47.3	10.7								10.7 - 47.3			ug/g
Semivolatile organic compounds															
.GAMMA.-SITOSTEROL						x									
1,5-HEPTADIEN-3-YNE		x					x	x	x						
1,E-11,Z-13-HEXADECATRIENE				x											
1-HENEICOSYL FORMATE	x ^o	x ^o	x ^o	x ^o	x ^o	x ^o	x ^o	x ^o	x ^o						
1-TETRADECANOL					x										
11,14-EICOSADIENOIC ACID, ME		x					x								
2-HEPTANOL, 5-METHYL-								x							
17-PENTATRIACONTENE				x				x							
2,4-OCTANEDIONE		x	x	x	x				x			x			
2-DECANOL				x ^o											
2-CYCLOHEXEN-1-ONE, 3,5-DIME		x													
2-HEXADECENE, 3,7,11,15-TETR			x		x	x									
2-HEXANONE	x ^o	x ^o	x ^o	x ^o	x ^o	x ^o	x ^o	x ^o	x ^o			x ^o			
2-NONANONE												x			
2-PENTANOL, 4-METHYL-	x	x	x		x	x			x	x					
3(2H)-FURANONE, DIHYDRO-5-IS					x										
3-DODECENE, (Z)-				x											
3-EICOSENE, (E)-	x ^o	x ^o		x ^o	x ^o	x ^o	x ^o	x ^o	x ^o			x ^o			
3-HEPTANONE, 2,4-DIMETHYL-															
3-HEXADECENE, (Z)-	x ^o	x ^o	x ^o	x ^o	x ^o	x ^o		x ^o				x ^o			
3-OCTADECENE, (E)-			x		x			x	x			x			
4-HEXEN-2-ONE, 3,4-DIMETHYL-	x	x	x	x	x			x	x			x			
5-HEPTEN-2-ONE, 4,6-DIMETHYL-															
7-HEPTADECANOL, 7-METHYL-				x											
9,12-HEXADECADIENOIC ACID, M									x						
9,17-OCTADECADIENAL, (Z)-	x		x		x				x	x					
9-HEXADECENOIC ACID									x	x					
9-OCTADECENAL, (Z)-			x						x	x					
9-TRICOSENE, (Z)-				x ^o					x ^o						
BENZENE, (3-OCTYLUNDECYL)-				x										x	
BENZENE, 1,2-DIMETHYL-								x							
BENZENE, 1,3-DIMETHYL-		x		x										x	
BENZENE, ETHYL-				x											
BENZENEMETHANESULFONYL CHLOR				x											
CYCLOBUTANE, ETHENYL-	x ^{o+}	x ^{o+}	x ^{o+}		x ^{o+}	x ^{o+}		x ^{o+}	x ^{o+}						

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SUBJECT	1	2	3	4	5	6	7	8	9	relative	test detectic	U.S. average or	unit
										toxicity average	range	limit	
CYCLOBUTENE, 2-PROPENYLIDENE	X ^b		X ^b		X ^b								
CYCLODODECANE													
CYCLOHEXANE	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b				
CYCLOHEXANE, (1,2-DIMETHYLBU	X ^b	X ^b	X ^b			X ^b		X ^b					
CYCLOHEXENE, 1,5,5-TRIMETHYL		X											
CYCLOHEXANE, ETHYL-				X					X				
CYCLOPENTADECANONE, 2-HYDROX									X				
CYCLOPENTANE, 1-ETHYL-1-METH						X							
CYCLOPENTANE, 1-HEXYL-3-METH	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b				
CYCLOPENTANE, 1-METHYL-2-PRO	X		X		X		X	X	X				
CYCLOPENTANE, 1-PENTYL-2-PRO													
CYCLOPENTANOL, 1-METHYL-	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b				
CYCLOPENTANONE, 3-METHYL-		X ^b		X ^b				X ^b					
DECANE, 2,4,6-TRIMETHYL-	X												
DECANE, 2,5,6-TRIMETHYL-			X ^b	X ^b		X ^b	X ^b		X ^b				
DECANE, 3-BROMO-						X ^b							
DECANE, 5,6-DIMETHYL-	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b				
DECANE, 6-ETHYL-2-METHYL-	X		X		X		X						
DIPHOSPHORIC ACID, DIISOCTY		X		X									
DOCOSANE	X ^b		X ^b		X ^b								
ETHANONE, 1-(3-BUTYLOXIRANYL													
ETHANONE, 1-(3-ETHYLOXIRANYL	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b				
ETHANONE, 1-(TRIMETHYLOXIRAN	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b				
FURAN, TETRAHYDRO-2,5-DIMETH	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b				
HEPTADECANE, 2,6-DIMETHYL-			X ^b		X ^b	X ^b		X ^b	X ^b				
HEPTANE, 2,4-DIMETHYL-	X ^b	X ^b				X ^b		X ^b					
HEXACOSANE					X ^b								
HEXADECANOIC ACID	X	X	X	X	X	X	X	X	X				
HEXANE, 2,2,3,3-TETRAMETHYL-				X				X					
HEXANE, 2,4,4-TRIMETHYL-		X											
HEXANE, 3-ETHYL-2-METHYL-		X	X										
HEXANEDIOIC ACID, BIS(1-METH								X					
HEXANEDIOIC ACID, MONO(2-ETH			X ^b				X ^b						
HYDROXYLAMINE, O-(PHENYLMETH									X				
OCTACOSANE													
OCTADECANAL	X	X	X		X	X	X	X	X				
OCTANE, 4-METHYL-													
OXEPANE, 2,2,4-TRIMETHYL-	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b	X ^b				
OXIRANE, (2-ETHYLHEXYL)OXY							X						
OXIRANE, (1,1-DIMETHYLBUTYL)						X ^b	X ^b	X ^b					
PENTANE, 3-BROMO-3-METHYL-				X ^b									
PHENOL, 4-(1,1,3,3-TETRAMETH					X	X						X	
PHENOL, 4,6-DI(1,1-DIMETHYLE								X					
PROPANOIC ACID, 3,3'-THIOBIS	X												
PYRIDINIUM, 1-HEXADECYL-, CH							X						
SYDNONE, 3-ISOPENTYL-	X						X		X				
TETRADECANAL			X										
TETRADECANOIC ACID							X						
TETRADECANONE					X								
TETRADECANONE, 2-ETHYL-													
TRIDECANE, 5-PROPYL-			X										

X^b = chemical found in solvent blank

X^c = chemical possibly added to sample from sampling equipment contamination

X^d = chemical found in solvent blank and possibly added to sample from sampling equipment contamination

* = sample volume insufficient for analysis. Value given is average in U.S. population.

Blank cell indicates that chemical was not detected.

Blue cell indicates that value is an estimated concentration that represents a maximum bound.

Values given for "US average or range" are from 1986 National Human Adipose Tissue Study.

For semivolatile organic compounds, test finds presence of compound only, and does not provide the numeric concentration.

Some fraction of phthalates in blood samples may be due to background contamination from the sampling and analysis equipment and procedures.

DRAFT - Table 3. Blood test results for nine subjects, Summer 2000.

SUBJECT									relative	test detectic	U.S. average or		
1	2	3	4	5	6	7	8	9	toxicity average	range	limit	typical range	unit

F = female, M = male in notations for U.S. average or typical range values.
 ug/g = micrograms per gram of lipid in the blood, or parts-per-million
 ng/g = nanograms per gram of lipid in the blood, or parts-per-billion
 pg/g = picograms per gram of lipid in the blood, or parts-per-trillion
 ug/L = microgram per liter of whole blood, or approx parts-per-billion
 ug/dL = microgram per deciliter of whole blood, or approximately one-tenth parts-per-billion