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7-16-91 989

Monsanto

R. E. Keller - St. Louis Organic Research - South Second Street

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SUBJECT

ENVIRONMENTAL MATERIALS ANALYZED
BY MONSANTO FOR PCB's

TO

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This note summarizes work we have done to date on the detection of PCB's in environmental materials. The attached table covers a total of 167 samples which have been analyzed.

PCB's typical of our Aroclor products have been found in -

- water and sediment from nine US rivers, one UK river and Lake Michigan,
- air (atmospheric, 0.05 mg PCB/cubic meter) at the Anniston plant,
- fish from Lake Michigan and three midwest rivers,
- human fat from a midwest biopsy specimen and
- milk from Maryland and Ohio dairy farms.

The water, sediment and air samples contain PCB's typical of Aroclor 1242, 1248, 1254 and/or 1260. The milk, human fat and fish samples contain PCB's most typical of Aroclor 1254.

REK

R. E. Keller

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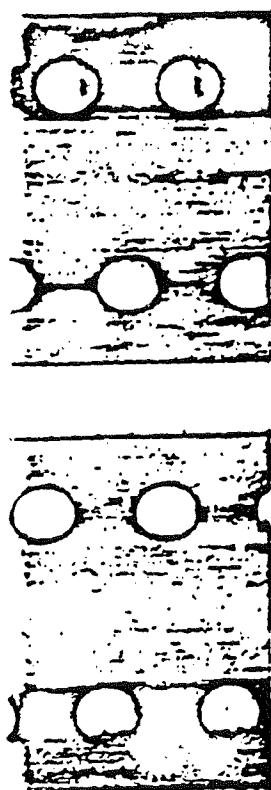
EXHIBIT

PIF. 579

8/14/92

PRR 022792

SCM 038534

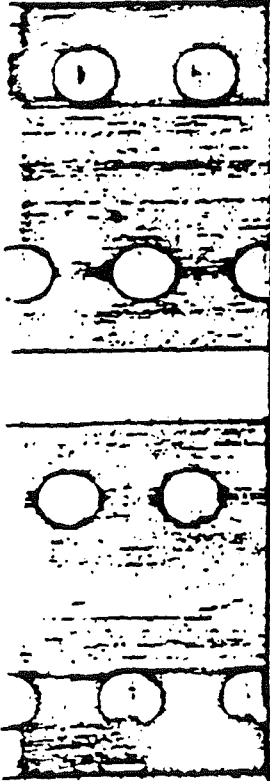


ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB'S

Industrial Manufacturer or User and Site Location	Associated Waterway(s)	Matrix and No. of Samples Analyzed	PCB's Found Most Typical of Aroclor					PCB Levels	Analyte Technique
			1248	1249	1254	1259	1260		
Monsanto, US Ariston, Alabama	Saw Creek Chocomahee Creek	Air (3)	x	x	x	x	x	(0.05 mg PCB/cc water)	EC/GC
		Water (23)	x	x	x	x	x	ppb-ppm	EC/GC
		Sediment (12)	x	x	x	x	x	ppb-S	EC/GC
Monsanto, US W. G. Krummrich Seaford, Illinois	Mississippi River	Fish (2)	x	x	x	x	x	ppm	EC/GC
		Water (59)	x	x	x	x	x	ppb-ppm	EC/GC
		Sediment (12)	x	x	x	x	x	ppb-S	EC/GC
Monsanto, US Paracels, Fla.	Escambia River	Water (7)	x	x	x	x	x	ppb	EC/GC
		Fish (1)	x	x	x	x	x	ppm	EC/GC
		Sediment (4)	x	x	x	x	x	ppb-ppm	EC/GC
Monsanto, UK Newport, England	River Severn (Uckmouth Area)	Water (12)	x	x	x	x	x	ppm	EC/GC
		Fox River	x	x	x	x	x	ppm	EC/GC
		Wisconsin River	x	x	x	x	x	ppm	EC/GC
General Motors Corp. Central Foundry Div. Burlington, Indiana	Fox River	Water (1)	x	x	x	x	x	ppm	EC/GC
		Water (4)	x	x	x	x	x	ppm	EC/GC
		Lake Michigan	x	x	x	x	x	ppm	EC/GC

PRR 022793

SCM 038535



Manufacturer or User and Site Location	Associated Waterway(s)	Matrix and No. of Samples Analyzed	PCB's Found 1242 1248 1249 1250				PCB Levels
			Water	(3)	=		
Wisconsin Steel Chicago, Illinois	Chicago Metropolitan Sanitary District Sewer	Water					ppm-5
Whiting Pittsburgh Steel Sunbeamville, Ohio	Ohio 7' River	Water	(1)	=			ppm
		Sediment	(1)	=			ppb
Lester Casting Bedford, Ohio	Storm Sewer	Water	(1)	=			ppm
Central Diecasting Chicago, Illinois	Downtown Sanitary Sewer	Water	(2)	=			ppb-ppm

Analyte
Technique

EC/GC

EC/GC
EC/GC

EC/GC

EC/GC

PRR 022794

SCM 038536

ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB'S

Non-Industrial		Location of Sampling Site		Matrix and No. of Sample		1248	1248	1254	1249	Range of PCB Levels		Confirmatory Techniques	
Organization	Supplying Sample												
Winconsin Alumni Research Foundation Ishdoo, Inc.		Manitowoc River Wisconsin		Fish Com- posite (1)							ppm	EC/OC, OC/Mass	
		Keweenaw River Wisconsin		" (1)							ppm	EC/OC	
		Burns Ditch Labo Michigan		" (1)							ppm	EC/OC, OC/Mass	
		Manitowoc River Michigan		" (1)							ppm	EC/OC	
		Source Unknown		Human fat biopsy sample (1)							ppm	EC/OC	
Maryland Cooperative Milk Producers, Inc.	Dairy Farms be- longing to Coop.			Milk (5) Water (4) (Stream and tank drinking water)							ppb M.D. (< 1 ppb)	EC/OC	
State of Ohio Department of Agri- culture Food, Dairies and Drug Laboratories	Dairy Farms			Site Scrapings (1) Milk extract (1) Raw Milk (3)							% ppm ppm	EC/OC EC/OC, OC/Mass EC/OC	

167

PBR 022795

SCM 036537