

Aroclor

FROM: (NAME & LOCATION) R. E. Keller - St. Louis Organic Research - South Second Street

DATE	April 17, 1970	cc.	J. Mason
SUBJECT	ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB's		H. S. Bergen
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PERSONAL AND CONFIDENTIAL

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

js



DSW 228720

TOWOLDMON0046143
WATER_PCB-00037120

ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB's

Industrial

<u>Manufacturer or User and Site Location</u>	<u>Associated Waterway(s)</u>	<u>Matrix and No. of Samples Analyzed</u>	<u>PCB's Found Most Typical of Aroclor</u>				<u>PCB Levels</u>	<u>Analysis Technique</u>
			<u>1242</u>	<u>1248</u>	<u>1254</u>	<u>1260</u>		
Monsanto, US Ponchartraine, Alabama	Snow Creek Choccolosso Creek	Air (3)	x				(0.05 mg PCB/cu meter	EC/GC
		Water (23)	x	x	x	x	ppb-ppm	EC/GC
		Sediment (12)	x	x	x	x	ppb-%	EC/GC
		Fish (2)			x		ppm	EC/GC
Monsanto, US G. Krummrich Met, Illinois	Mississippi River	Water (59)	x	x	x	x	ppb-ppm	EC/GC
		Sediment (12)	x	x	x	x	ppb-%	EC/GC
Monsanto, US Pacola, Fla.	Escambia River	Water (7)			x		ppb	EC/GC
		Fish (1)			x		ppm	EC/GC
Monsanto, UK Port, England	River Severn (Uskmonth Area)	Sediment (4)	x				ppb-ppm	EC/GC
General Cash Register Company, Wisconsin	Fox River Wisconsin River	Water (12)	x				ppm	EC/GC
General Motors Corp. Central Foundry Div. Livonia, Indiana	For River	Water (1)	x	x			ppm	EC/GC
Waukegan Motors Waukegan, Illinois	Lake Michigan	Water (4)	x				ppm	EC/GC

DSW 228721

TOWOLDMON0046144
WATER_PCB-00037121

Manufacturer or User and Site Location	Associated Waterway(s)	Matrix and No. of Samples Analyzed	PCB's Found Most Typical of Aroclor				PCB Levels	Analysis Technique
			1242	1248	1254	1260		
Wisconsin Steel Chicago, Illinois	Chicago Metropolitan Sanitary District Sewer	Water (3)	x				ppm-%	EC/GC
Steel Pittsburgh Cleveland, Ohio	Ohio River	Water (1)	x				ppm	EC/GC
		Sediment (1)	x				ppb	EC/GC
Steel Coating Cleveland, Ohio	Storm Sewer	Water (1)	x				ppm	EC/GC
Central Diecasting Chicago, Illinois	Downtown Sanitary Sewer	Water (2)	x				ppb-ppm	EC/GC

DSW 228722

ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB's

<u>-Industrial</u>									
<u>Organization</u>	<u>Location of</u>	<u>Matrix and No. of</u>	<u>1242</u>	<u>1248</u>	<u>1254</u>	<u>1260</u>	<u>Range of PCB Levels</u>	<u>Confirmatory</u>	
<u>Supplying Sample</u>	<u>Sampling Site</u>	<u>Samples</u>						<u>Technique</u>	
consin Alumni Re-	Manitowoc River	Fish Com-							
arch Foundation	Wisconsin	posite (1)			x		ppm	EC/GC, GC/Mass	
stitute, Inc.	Kewaunee River	" (1)			x		ppm	EC/GC	
	Burns Ditch	" (1)			x		ppm	EC/GC, GC/Mass	
	Lake Michigan	" (1)			x		ppm	EC/GC	
	Manistee River	" (1)			x		ppm	EC/GC	
	Michigan	" (1)			x		ppm	EC/GC	
	Source Unknown	Human fat biopsy							
		sample (1)			x		ppm		
eyland Cooperative	Dairy Farms be-	Milk (5)			x		ppb	EC/GC	
Milk Producers, Inc.	longing to Coop.	Water (4)					N. D.		
		(Stream and tank					(<1 ppb)	EC/GC	
		drinking water)							
ce of Ohio									
partment of Agri-	Dairy Farms	Silo Scrapings(1)			x		%	EC/GC	
culture		Milk extract (1)			x		ppm	EC/GC, GC/Mass	
Food, Daries and		Raw Milk (3)			x		ppm	EC/GC	
Drug Laboratories									