Monsanto

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

DATE April 17, 1970

SUBJECT ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB's

REFERENCE

TO : W. B. Papageorge

PERSONAL AND CONFIDENTIAL

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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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WATER_PCB-SD0000017899

ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB's

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ıfacturer or User d Site Location	Associated Waterway(s)	Matrix and No. of Samples Analyzed		PCB's Found Most Typical of Aroclor 1242	1248	1254	1260	PCB Levels	Analysis Technique
santo, US	Snow Creek	Air	(3)	x				(0.05 mg PCB/cu meter	EC/GC
ston, Alabama	Choccolosso Creek	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
santo, US	Mississippi River	Water	(59)	x	x	x	x	ppb-ppm	EC/GC
G. Krummrich et, Illinois		Sediment	(12)	x	x	x	x	ppb-%	EC/GC
santo, US	Escambia River	Water	(7)			x		ppb	EC/GC
sacola, Fla.		Fish	(1)			x		ppm	EC/GC
santo, UK	River Severn								
port, England	(Uskmonth Area)	Sediment	(4)	x				ppb-ppm	EC/GC
onal Cash Register tage, Wisconsin	Fox River Wisconsin River	Water	(12)	x				ppm	EC/GC
eral Motors Corp. tral Foundry Div. ford, Indiana	For River	Water	(1)	x	x			ppm	EC/GC
ıson Motors ıkegan, Illinois	Lake Michigan	Water	(4)	x				ppm	EC/GC

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WATER_PCB-SD0000017900

ıufacturer or User ɔd Site Location	Associated Waterway(s)	Matrix and No. of Samples Analyzed	PCB's Found Most Typical of Aroclor 1242	1248	1254	1260	PCB Levels	Analysis Technique
sconsin Steel ɪ:ago, Illinois	Chicago Metropolitan Sanitary District Sewer	Water (3)	x				ppm-%	EC/GC
ɛeling Pittsburgh tːel ɪbenville, Ohio	Ohio River	Water (1) Sediment (1)	x x				ppm ppb	EC/GC EC/GC
ster Coating dford, Ohio	Storm Sewer	Water (1)	x				ppm	EC/GC
ntral Diecasting iːago, Illinois	Downtown Sanitary Sewer	Water (2)	x				ppb-ppm	EC/GC

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WATER_PCB-SD0000017901

ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB's

-Industrial

Organization Supplying Sample	Location of Sampling Site	Matrix and No. of Samples	1242	1248	1254	1260	Range of PCB Levels	Confirmatory Technique
consin Alumni Research Foundation stitute, Inc.	Manitowoc River Wisconsin	Fish Composite (1)			x		ppm	EC/GC, GC/Mass
	Kewaunee River Wisconsin	" (1)			x		ppm	EC/GC
	Burns Ditch Lake Michigan	" (1)			x		ppm	EC/GC, GC/Mass
	Manistee River Michigan	" (1)			x		ppm	EC/GC
	Source Unknown	Human fat biopsy sample (1)			x		ppm	
cyland Cooperative ilk Producers, Inc.	Dairy Farms belonging to Coop.	Milk (5)			x		ppb	EC/GC
		Water (4) (Stream and tank drinking water)					N.D. (<1 ppb)	EC/GC
te of Ohio partment of Agriculture ood, Daries and Drug Laboratories	Dairy Farms	Silo Scrapings(1)			x		%	EC/GC
		Milk extract (1)			x		ppm	EC/GC, GC/Mass
		Raw Milk (3)			x		ppm	EC/GC

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WATER_PCB-SD0000017902