Monsanto

FROM (NAME & LOCATION) M. A. Terpstra - St. Louis, Q2E

DATE : May 10, 1977

SUBJECT : MCB/DCB PROCESS WASTE STREAMS

REFERENCE :

TO : Frank Basile
1740

CC: D. P. Alt - 1740
H. C. Carder - E1SF
F. J. Helmer - 1740
W. B. Papageorge - E3NJ
M. A. Pierle - E1SF
W. R. Richard - R2E
C. C. Sisler - R2E

Polychlorinated biphenyls are present in residues from Dept. 233 and 224 and in the crude chlorination mass as determined by recent GC-MS analysis. Possible sources of formation are in benzene dehydrator, chlorinators and stabilizer still. Analysis was made on only one set of samples, but there is little reason to believe that another set would show much difference except as to level variations since the process has not changed since the samples were taken.

The residues are now landfilled. Should other means of disposal be considered?

The analytical results are as follows:

	MCB Final Chlorinator 11/9/76	ODCB Residue 1/16/74	MCB Stabilizer Still 1/15/74
GC/MS			
PCB Isomers (ppm)			
Di-Cl	5	15,000	3100
Tri-Cl	2	5,500	5600
Tetra-Cl	0.2	3,900	ND<1000
Penta-Cl	0.1	2,100	ND<1000
Hexa-Cl	ND<0.1	900	ND<1000
FID-GC			
HCB (ppm)*		12,000 (1.2%)	4400 (0.44%)

*Values for HCB (hexachlorobenzene) are on the high side. Samples may contain much less.

DSW 330098

M. A. Terpstra

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