Monsanto

FROM (NAME & LOCATION) E. S. Tucker - Technology Department - S. Second Street

DATE December 3, 1970

SUBJECT PCB CONTENT OF PENSACOLA WHITE OR BAY SHRIMP

REFERENCE

cc R. E. Keller - Res. 1
E. P. Wheeler - GO
P. B. Hodges - GO
A. J. Zabinski - Pensacola

TO : W. B. Papageorge
General Offices

Approximately 2-3 pounds of white or bay shrimp were submitted by Pensacola Plant personnel for PCB analysis. The shrimp were caught 9-30-70, shipped 10-5-70, and analyzed as soon as possible thereafter. The sampling site was described as follows, "East side of Escambia Bay starting at the I-10 bridge and continuing dredge to south of Indian Bayou (1.5 mi. diag.)". (See map.)

Prior to extraction, the shrimp were divided into four groups, two which were analyzed whole after washing with distilled water and two which were decapitated, shelled, and de-veined prior to analysis. The estimated PCB content of each group was as follows:

OR Log No. 458

Sample No.	Sample Description	Shrimp/ Group	Estimated+ ppm PCB's*	
			Wet wt.	Lipid wt.
1	Whole	6	0.5	31.5
2	Whole	7	0.6	65.4
3	Shelled	7	0.1	12.5
4	Shelled	7	0.2	25.4

+Isomer distribution altered with respect to standard.

*Calculated as Aroclor 1254.

Although the presence of PCB's was established with a fair degree of certainty by comparison of retention times (see attached table) we were unable to verify this by GC/MS analysis because of interference from higher levels of non-EC active organic interferences in the concentrated extracts.

If it is important enough that we make an unequivocal identification, another sample will have to be collected and a second attempt made.

E. S. Tucker

db
Attach.

MONS 098702

IN-10 REV. 11-65