COMPANY CONFIDENTIAL

Monsanto

FROM (NAME & LOCATION): **E. E. Stewart, W. G. Krummrich Plant**

DATE: July 7, 1972

SUBJECT: STATUS - PCB POLLUTION CONTROL PROGRAM

REFERENCE:

TO: Mr. J. R. Savage
General Offices
B2SL

cc: G. L. Bratsch
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W. R. Richard - G.O. (T3A)

This is July 2, 1972 status of PCB pollution control program.

I. PCB LEVEL IN SEWERS

Aroclor sewer loss control data are attached. June PCB losses measured at the Waste Treatment Plant Effluent at 2 #/day average daily loss are the lowest on record. The Influent to Waste Treatment Plant at 23 #/day is much improved over last month and is lowest since mid-February. "Knowing losses" measured from the department at 1.6 #/day average (equivalent to 0.0015 ppb measured at Mississippi River) are within expected guideline from the EPA.

A. Aroclor Department - New sewer and sampling station in operation 6/22. Continuous samples taken from main department effluent stream indicated PCB losses from department at 0.34, 0.66 and 3.72 #/day during 3 and 4 day sampling periods.

Amendment to reduce PCB's discharging to the department sewer stream by eliminating the aeration process steps is being demonstrated. Air blowing at continuous unit was discontinued 6/6 and at batch units on 6/26.

B. Incinerator Area - Measured losses averaged 0.34 #/day. Although unit was down all month, extensive repairs were in progress, and returned drums from customers are being emptied into storage for subsequent incineration. New curbing was installed during the month to contain spills and leakage during drum handling.

C. Total Plant - The average daily loss measured at the influent was 23 #/day. This value reflects losses not only from the department and incinerator but also includes background amounts from the entire plant and village sewer system. Measured losses are continuing to decrease and are lowest since mid-February.

I. PCB LEVEL IN SEWERS

C. Total Plant - continued

Removed flip-flop samplers from Waste Treatment Plant. Reverting back to fast pick-up and drum sampler. It is believed that two types of samplers at the same location are costly, comparative results with past data would be confusing and drum sampler has been accepted as a satisfactory method for obtaining samples for phenol, mercury, etc. Flip-flop samplers are used to measure "knowing losses" at the department and the incinerator.

D. Treatment Plant Effluent - The average daily loss measured at the effluent of 2 #/day is the lowest on record. This amount is equated to about 0.002 ppb in the Mississippi River assuming this is the only PCB input to the river. EPI guidelines are 0.01 ppb in waters.

II. PROJECT STATUS

Estimate No. 3500 - "Repair Sewer and Paving in Second Street". Complete.

Estimate No. 3972 - "Modify Aroclor Sewer Facilities to Permit Sampling all Sewer Streams" - Project to be submitted for approval. Design package to be prepared.

III. PROGRAM STATUS Re Engman/Bratsch 4/24/72

"Program to Reduce PCB losses from Manufacturing Facilities"

1. HCl Off-Gas

A. Aroclor - C/S production being coordinated such that minimum 246 off-gas is sewered.

B. Proposed off-gas scrubber design and equipment layout was reviewed with CED and Research. The design being continued and project will be presented for approval about 10/1/72.

III. PROGRAM STATUS (Continued)

2. Blow Tank Off-Gas

Amendment to the process being demonstrated. Air blowing at continuous unit was discontinued 6/6 and at batch units on 6/26.

3. Rip Track Washes

PCB separation from tank car washing via a settling basin in the wash water effluent stream to the sewer is not satisfactory. Recent tests indicated a loss of 1.7 # per car wash. Goal is 0.01 #/wash. AR & D laboratory efforts indicate that lime or carbon treatment may be necessary to achieve the desired level.

Activities in progress to assemble desired information and formulate program for dealing with Federal authorities in the near future with regard to "PCB's and the Environment".

E. E. Stewart
Technical Services Department

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att.

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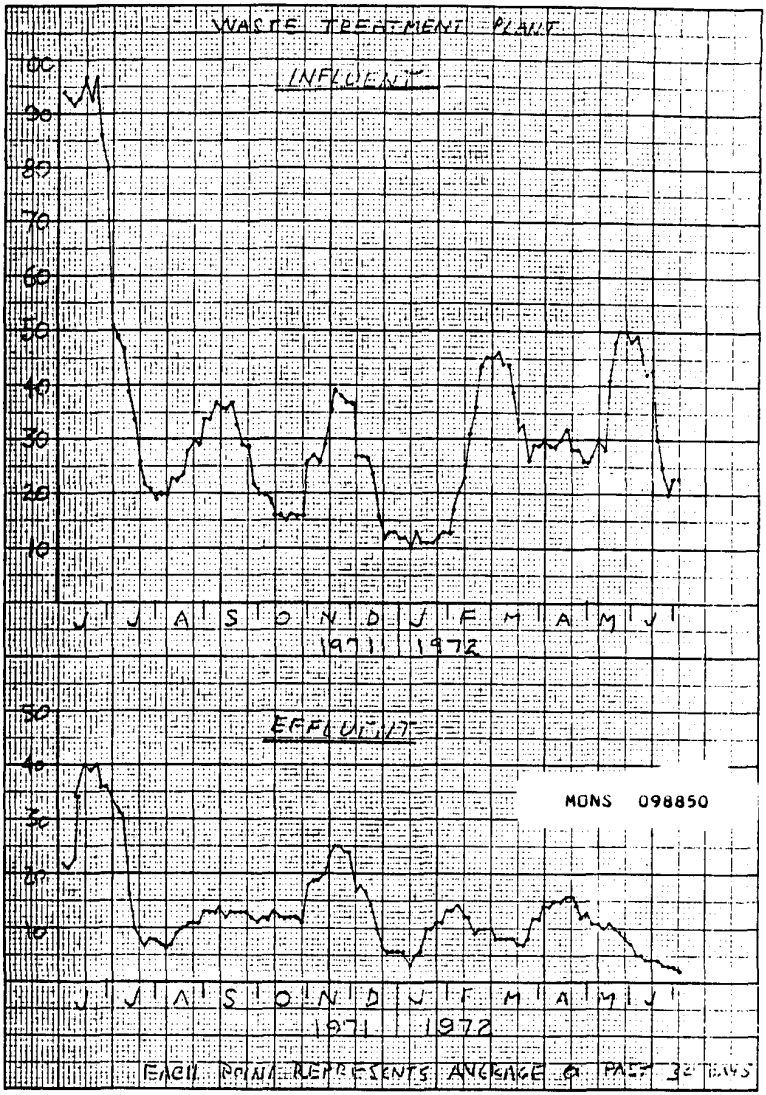

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