Monsanto

COMPANY CONFIDENTIAL

FROM (NAME & LOCATION) E. E. Stewart, Krummrich

DATE : March 3, 1972

SUBJECT : STATUS - PCB POLLUTION CONTROL PROGRAM

REFERENCE :

TO : Mr. J. R. Savage
General Offices
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cc: Messrs.
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This is the March 1, 1972 status of the PCB pollution control program.

I. PCB LEVEL IN SEWERS

Aroclor sewer loss control data are attached. February losses from the plant were about 3-1/2 times greater than last month, but losses from the Treatment Plant to the river were slightly lower than last month.

A. Aroclor Department - Higher than normal losses from the department are attributed primarily to two causes, Aroclor 1105 was produced until 2/7 and during this period all the off-gas is sewered, and the off-gas temperatures are at 80°C from both the continuous and the batch chlorinators (normally 40°C). Also, during the period 2/7 to 2/19 excess off-gas was sewered at the Dept. 246 area. Calculations and grab samples taken at the HCl scrubbing jet would indicate 1-2 # PCB/hr are sewered when the off-gas is sewered. Since 2/19, there has been very little sewering of off-gas at the department. 98% of the Aroclor off-gas is being used for C/S acid production. The C/S scrubber is being analyzed to determine disposition of PCB at the C/S department.

Preliminary work has been started to prepare a project for the installation of another HCl off-gas scrubber at the Aroclor department. $2500-5000 WGK Research costs and $30,000 project costs may be required.

B. Total Plant - Losses are measured at the Waste Treatment Plant Influent. February losses of 47 #/day compare with 13 #/day in January. Continuing to compare results from drum sampler with flip-flop isokinetic sampler. Data erratic because of freeze-ups with isokinetic sampler. More data required before changing from existing drum sampler.

I. PCB LEVEL IN SEWERS (cont'd)

C. Treatment Plant Effluent - February losses of 10 #/day slightly better than 11 #/day last month. Best has been 5 #/day and goal is < 1 #/day. Do not expect to make further significant reductions until additional clean-up is made to the sewered HCl off-gas from the department.

II. PROJECT STATUS

Estimate No.

3102 "Enlarge Aroclor Settling Basin" Project completed during month.

3500 "Repair Sewer and Paving in Second Street" Design complete. Submitted for bids to outside. Expect completion 5/1/72.

3694 "Extend Pad at Truck Loading Docks". To better contain losses at this area. In progress.

III. PROGRAM STATUS

A program has been developed by the PCB Task Force Committee that should permit us to reduce PCB losses from the department to about 1 #/day. The specific program is attached.

Edward E. Stewart
Technical Services Department

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WASTE TREATMENT PLANT - INFLUENT
WASTE TREATMENT PLANT - EFFLUENT
PCB LOSSES (POUNDS PER DAY)
80
70
60
50
40
30
20
10
0
A M J J A S O N D J F M
MONS 099066

OFF-GAS SCRUBBER

Production

Daily check and record of demister operation and off-gas temperature control. (In progress)

Coordinate 246 production with 217 and sewer excess gas from 236 at 236. (March start)

Maintenance

Technical Services

Verify off-gas calculated losses (3/3)

Scrubbing process defined & demonstrate in Lab. (March & April)

Prepare project (Estimate) to scrub off-gas. (March & April)

Coordinate design of WGK scrubber activity with CED activity related to 1109 design.

AIR-BLOW REDUCTIONS

Production

Step-down air blowing and minimize production of $\leq$ 1248 in batch chlorinators.

Maintenance

Technical Services

Prepare project to scrub air-blow. (April)
(will hold pending reduction noted in off-gas project)

SETTLING & SEWER MUST FUNCTION PER DESIGN

Production

Daily inspection of basins (In progress)

Maintenance

Project 2422 - Install PCB level alarm in North Settling Basin (March)

Technical Services

Get PCB level probes working in North Settling Basin and in off-gas storage tanks. (March)

Develop technique to reduce PCB content in tank car washes to ≃400 ppb. (March)

Modify basin to effect more efficient skimming. (March-April)

Modify South basin to lower the level. (March-April)

CONTAIN PHYSICAL LOSSES

Production

Maintenance

Complete Project 3500 "Repair Sewer at 2nd Street".	(5/15)
Project 3694 "Extend pad at truck loading dock."	(3/10)

Technical Services

Premise for containment at loading docks.	(April-May)
Premise for automatic cut-off during loading of tank cars.	(April-May)

EXTRAS

Production

Drip pan - bucket- drum color procedural emphasis	(March-April)
Water off in-line power factor analyzer	(February)
Altering procedure of clean-up (less water, more physical pick-up).	(In progress)

Maintenance

Replace city water break tank	(3/3)
Pump Shop project	(3/15)
Maintenance man inspects all pumps on monthly baiss.	(In progress)
~~Monitor~~ Monitor project	(4/1)

Technical Services

Verify accuracy of laboratory method	(February)
Define specific sampling procedure	(March)
Select pump and define future sampling program	(March)