

Monsanto

FROM (NAME & LOCATION)

N. Thompson - WGK

DATE April 18, 1973

cc:

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SUBJECT Scrubbing of Dept. 246 HCl Off-Gas
with C/S Acid

REFERENCE

TO : A. E. Leisy

During the week of 4/9 Dept. 246 HCl Off-gas was scrubbed using the C/S acid scrubber in Dept. 217. The scrubbed gas was drowned in water and sewerred. Operation conditions during this period were:

Dept. 246 - Running 50% of capacity
C/S Acid Scrubber - 50 gallons C/S Acid
Drowning Water - 70 GPM well water

Samples of the sewerred aqueous HCl were collected and the analyses are presented below. Samples of the C/S acid were collected just prior to changing and analyzed for % assay.

<u>DATE</u>	<u>TIME</u>	<u>PCB(ppb)</u>	<u>SO₄(ppm)</u>	<u>% HCl</u>	<u>Assay C/S Acid</u>
4/11	9:30 am	< 10	24.5	2.0	95.21 (after 12 hrs.)
4/11	3:00 pm	< 10	45.5	2.83	
4/12	7:30 am	< 10	22.0	2.98	75.28 (after 24 hrs.)
4/12	1:30 pm	< 10	35.7	2.00	
4/13	7:30 am	< 10	23.4	2.59	

The low SO₄⁼ values indicate that essentially no gas stripping or degradation of the C/S acid occurred during the scrubbing process.

Neil Thompson

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