JOB 1108 — TANK FARM + TANK CAR LOADING AREA
Cleanup + Pollution Control

Leaks and spillage around the Aroclor tank farm area should be cleaned up. Only if this area is concreted and curbed, can spills be contained. Curbing this area will provide for a means of handling all rain water which contacts spilled Aroclor. Facilities for area drainage will tie in with this. ~~Present~~ Drainage will be to the (12)" sewer line running parallel, North to South, and just a few feet, to the left of the railroad tracks to the N.W. corner of the warehouse, when a 90° turn, round with E. to the N.E. corner of the warehouse; at this point ~~at this point~~ a concrete lined sump can handle all second phase. This will be a valuable last step in eliminating PCB from our effluent, which without would be very detrimental to our hopes of reaching PCB pollution limits.

Small localized curbing + concreting for individual pump leaks and spills within the tank farm would be almost a total concrete job so concreting will be complete.

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Rainwater is going to contact Aroclor leaks and spills producing second phase. This is why a sump is needed to separate PCB from this effluent

① Concreting and curbing the tank farm area will establish 150 GPM of rainwater to the sump.

① Send the water to the present sump. The present sump is designed to handle 250 GPM. This figure doesn't necessarily mean that the sump receiving an add'l 125 GPM will cause a backflow of water in present drains to the sump. The sump is designed to handle a velocity of water which if kept below a certain level will not allow any small PCB particles to escape a chance to settle and leave with the effluent. If this figure will be overrun & PCB escapes, then our pollution limit is overrun.

② Draw the water to the mentioned 12" line and send to the present small reservoir type sump & be satisfied with satisfactory less than efficiency.

A future concrete pad job 10'x180' will be done to the east side of the aroclor dept. which when finished will add an additional 40 GPM to the sump as a result of rainwater. This is really an unwanted addition to the sump, but is needed for the purpose of being able to clean up aroclor spills

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Concreted Tank Farm Area 120 x 80 = 9600 ft

$\frac{9600 \times 2.1 \text{ in/hr}}{12} = \frac{19,200}{12} = 1600 \text{ ft}^3/\text{hr}$

$1600 \times 7.5 = 12,000 \frac{\text{gal}}{\text{hr}} \times \frac{\text{hr}}{60} = 200$ gpm max Rainwater

Too much to add to the sump

Area of tanks = $\pi r^2 = 3.14 \times (6.25')^2 = 123 \text{ ft}^2/\text{tank}$

$123 \text{ ft}^2/\text{tank} \times 12 \text{ tanks} = 1460 \text{ ft}^2$ taken up by tank

9600 ft² area total
− 1460 ft² of tanks
7540 ft² of concrete
− 100 ft² concrete pads for pumps
7440
− 440 ft other pads

Won't include Tank or loading area.

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$\approx 7000 \text{ ft}^2 \times \frac{6''}{12} \text{ thk} = 3500 \text{ ft}^3$ of concrete for tanks farm pad