Monsanto
COMPANY
ANNISTON, ALABAMA

RECORD OF IDEAS

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Idea No. PR&D - 013

Describe briefly your idea employing examples where possible. Use attached sheets if necessary.

The waste water from the Aroclor (PCB) Department (Anniston) contains a certain concentration of acid as HCl and H_3PO_4 and a trace contamination of Aroclor. The acidity of the stream is neutralized in a limestone pit, thus leaving the trace of PCB. Research directed toward removing PCB from the stream indicates that it is adsorbed on the powdery sludge of the pit. The following proposals are made in an effort to utilize the adsorptive properties of this material:

1. PCB Removal by Adsorption and Filtration

   In this approach the waste stream is treated with some adsorbent (i.e. powered limestone, lime, diatomaceous earths, etc.) in a batch semi-continuous operation; the solids are then removed by settling, filtration, etc.

2. PCB Removal by Adsorption on a Floc

   The addition of a coagulant to the present stream should produce a flocculant on which PCB can be adsorbed. The PCB containing floc could then be removed by settling and filtration. By this approach any suspended solids are removed.

To what advantage may this innovation be used by the company?

It may be used in removing PCB and suspended solids from the waste stream of the Aroclor Department within Monsanto.

...iterature survey been completed on this topic? If so give results.

To whom and in what manner (verbal, letter, report, etc.) has this innovation been previously disclosed? Give dates where possible.

1. PR&D Work Plan 9/09/70 to:

2. Verbally with J. L. Brown on 9/10/70.

Signature of Inventors	Date	Witness	Date
Ishmeal Ransaw		G. L. [illegible]	9/7/1970
Ishmeal Ransaw	9/7/70	J. R. [illegible]	9/9/1970

Approved by: J. L. Brown (Signed) 9/10/70 (Date)

Signed Date

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