Monsanto INDUSTRIAL CHEMICALS CO.

FROM (NAME & LOCATION): R.H.Munch - Res-3 - 1700 So. 2nd St. (1760)

DATE: September 11, 1972

cc W. R. Richard - T3A
E. S. Tucker - T2F

SUBJECT: POND EXPERIMENT

REFERENCE:

TO : Dr. R. E. Keller

GENERAL OFFICES - T1B

MCL is carrying out a pond experiment to determine how various fluids used as dielectric impregnants behave in an aquatic system. Five identical artificially constructed outdoor ponds will be used, four for materials to be tested, the fifth as a blank. These will have plants and animals typical of a natural pond. The experiment will be carried out by adding the fluid under test to the silt in the pond and stocking with goldfish 4-6 inches long. Goldfish will be taken from the ponds at intervals during the experiment and the whole fish analyzed to determine how much of the material and which components are extracted and retained by the fish.

Three of the ponds are being used to compare Aroclors 1016, 1242 and 1254. The fourth is reserved for MCS 1238 but this test has not been started because they have no suitable analytical method.

This memo is to request that Scott Tucker develop one. It should detect both the hydrocarbon and sulfone components of 1238 and be suitable for use down to 1 ppm. wet weight or less using two whole goldfish per sample.

It is desirable that the method be available as soon as possible so that some data can be obtained before the weather gets too cold. We want to avoid having to delay the experiment til next season if at all possible. This means that we have about two weeks or a little more to get a method developed and sent to H. A. Vodden at Ruabon.

This problem has already been discussed with Scott and he is considering how the job can best be done.

R. H. Munch

dm

IN 10 REV 11 69