

Monsanto

FROM (NAME & LOCATION) E. S. TUCKER - R&D LABORATORIES - SOUTH SECOND STREET

DATE October 8, 1969

SUBJECT ANALYSIS OF ESTUARY MUD SAMPLES
FROM THE USKMOUTH AREA (NEWPORT, U.K.)

REFERENCE

cc: R. E. Keller - S. 2nd
A. F. Regan - Newport
E. P. Wheeler - GO
M. W. Farrar - S. 2nd
W. R. Richard - GO

TO H. A. Vodden
Ruabon

Results

PS Out No. N69/

Sampled At

ppb Aroclor
1242 Found

8006

Peterstone

470

8007

Lighthouse

2068

8008

Goldcliff Pill

966

8009

Cold Harbor Pill

665

The mud samples were prepared and analyzed in the following manner:

Each mud sample was spread evenly in a flat pyrex baking dish and allowed to air dry. After drying the mud was finely ground and divided into two 250-300g samples. The weighed mud was extracted with acetonitrile and the filtered extracts evaporated to dryness. The residue was saponified by refluxing with alcoholic KOH, re-extracted into hexane, extracted with 90% sulfuric acid, and chromatographed on alumina. After concentration the amount of Aroclor present was determined by electron-capture gas chromatography.

The electron capture fingerprints were identical with that of our Aroclor 1242 standard. There were also indications of the higher chlorinated biphenyls but at much lower levels.

E. S. Tucker

db
Attachment

MONS 097087

