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Allied Chemical Corporation
Agricultural Division
Baltimore Plant

Water, Soil and Mud Samples
Kepone and Arsenic Determination
To Determine Background and Area Analysis

(RETESTED & REVISED 6/15/76)

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Three groups of samples are included in this report.

A. Water Samples

Samples of the Patapsco River mostly well down river from the Plant.

B. Soil Samples

From two sod farms who have supplied sod to Swann Park and from Western Maryland track in Westport.

C. Mud Samples

From the Patapsco River shore line well down river from the Plant.

Purpose

The purpose of all of these samples and analyses is to supply background information for Kepone and Arsenic analysis in the area of the Baltimore Plant, Agricultural Division.

Analysis

The results of the analyses are tabulated on the following three tables: These results indicate a probable Kepone background of less than 0.2 ppm on soil and mud samples and about 0.7 to 1 ppb for water samples.

Locations

Chart A shows the locations of the water samples.

Chart B shows the locations of the mud samples.

Table A

Water Samples Taken April 23, 1976

<u>Sample</u>	<u>ppb Kepone *</u>	<u>ppb Arsenic</u>
1	2.4	2
2	3.3	0
3	3.4	0
4	1.3	2
5	1.2	0
6	0.8	0
7	1.6	0
8	1.6	2
9	2.6	0
10	0.8	0
11	1.0	0
12	0.8	2
13	0.8	0
14	0.7	0
Ave.	1.6	0.6

Deionized Distilled Water 0.7 ppb Kepone *

Baltimore Tap Water 0.8 ppb Kepone *

Table B

Soil Samples From Princeton Turf Farm
Centerville, Maryland Taken 4/16/76

	<u>ppm Kepone *</u>	<u>ppm Arsenic</u>
Farm #2	.01	29
Farm #3	0.12	42
Farm #4	0.015	30

Soil Samples From Whites' Turf Farm
Near Mt. Airy, Maryland Taken 4/5/76

	<u>ppm Kepone *</u>	<u>ppm Arsenic</u>
Daisy Rd. Farm	.09	0
Damascus Rd. Farm	0.2	0

Soil Samples from Westport Area, W.M.R.R. Tracks
Across the River from Baltimore Plant Taken 3/29/76

	<u>ppm Kepone *</u>	<u>ppm Arsenic</u>
East Side of Anna- polis Road	0.12	4
West Side of Annapolis Road	0.4	12

Table C

Mud Samples (Taken 4/15/76)

	<u>ppm Kepone *</u>	<u>ppm Arsenic</u>
1. Middle Branch Patapsco intersection of South and Ostend Sts.	0.2	40
2. Fort Smallwood State Bank, South bathing beach	.09	8
3. Brandon Shores Brandon Shore Road	0.2	32
4. Koester's Estate Driftwood	.05	8
5. Fort McHenry at Southern States Co-op	.07	66

* Kepone is probably not present in these samples but there is a small peak at the same retention time as Kepone which we have calculated as Kepone.