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May 26, 1954

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Dr. Paul B. Pearson, Chief
Biology Branch
Division of Biology and Medicine
United States Atomic Energy Commission
Washington 25, D.C.

Dear Dr. Pearson:

As stated in our letter of April 28 accompanying the table on Rongelap fishes and the soil decay curve, we are herewith supplying additional data on the other samples taken from that area. The enclosed information includes data on invertebrates, algae, land plants, birds and plankton.

As in the previous report, radioactivity is expressed in $\mu\text{m/g}$ of wet tissue, corrected for background, geometry, backscatter, self-absorption, and decay extrapolated to March 26, 1954. These corrections introduce errors - probably not much exceeding a factor of two (2) - because of differences in the elements contributing the radioactivity to the different samples being counted.

The plates were counted between April 7 and May 15, 1954.

The thyroid glands were counted as dried samples because it was found that ashing drove off most of the ^{131}I contained in the tissue.

Decay corrections derive from the curve for Rongelap soil, repeated and extended here as Figure 1, although some tissues which deviate significantly from this curve will be discussed in a later report.

Sincerely yours,

Kelshaw Bonham
Research Associate

KB:mc

cc: Mr. Kenneth Englund

enc.