



DEPARTMENT OF THE NAVY  
BUREAU OF SHIPS  
WASHINGTON 25, D. C.

404262

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IN REPLY REFER TO  
C-S90/1-2(348)  
Ser 348-038

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SAB 20006424A001

2-APR 1956

Dr. C. L. Dunham (1)  
Director, Division of Biology and Medicine  
U. S. Atomic Energy Commission  
Washington 25, D. C.

Dear Dr. Dunham:

The second resurvey of the Marshall Islands conducted by the U. S. Naval Radiological Defense Laboratory with the assistance of Dr. F. R. Fosberg of the U. S. Geological Survey, was completed on 15 February 1956.

Gamma dose rates were measured on Rongelap Atoll (Rongelap, Kabelle, Gejen and Eniaetok Islands), Rongerik Atoll (Eniwetak Island), Ailinginae Atoll (Sifoo Island), Utirik Atoll and Likiep Atoll. Plant, marine, water and soil specimens were obtained from each of the Islands, as well as the additional samples listed in enclosure (2).

As was agreed, we plan to send to the New York Operations Office duplicate samples of all the specimens which are to be analyzed at the Laboratory. We have been informed that there is a requirement for samples at the University of Chicago (Dr. E. Martell). We would appreciate it if you would confirm this and advise us as to the specific nature of the requirement.

Enclosure (1) outlines the grouping and processing sequence planned for the laboratory work. The grouping and sequence were established on the basis of sample type, sample source, and importance to the investigation. Your comments on the plan are requested.

We wish to take this opportunity to make note of the invaluable contributions made by Dr. Fosberg to the success of this survey. The selection of the various types of vegetation and soils was based upon his recommendations.

Accession # 326-81-6

Box 1611

JOB 6307

File FOLDER - NMC 2 2

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INFORMATION (S) (U) (DOE-NSI)  
COORDINATE  
AUTHORITY: DOE/S  
BY R.A. CARPENTER, DATE: 5-16-94  
ARR Schmidt 6/16/94

NATIONAL INTELLIGENCE  
Unauthorized Disclosure  
Administration

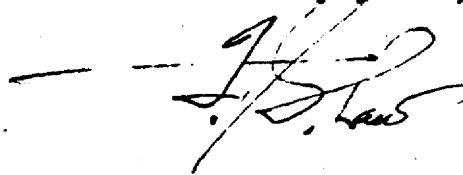
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We would appreciate obtaining an early reply to this letter so that the analyses can be initiated at the Laboratory without delay.

Sincerely yours,



Encl:

- (1) Processing Sequence-Second Resurvey Specimens
- (2) Additional Specimens Obtained During Second Resurvey

F.G. Law, Capt. USN  
Head, Research & Development Planning Br.  
Research & Development Division  
By direction of Chief of Bureau

Copy to:  
AEC, NYK Operations Office  
70 Columbus Avenue, NYK (w/o encl)(1)

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Processing Sequence - Second Resurvey  
Specimens

| <u>Group</u> | <u>Source</u>                       | <u>Specimens</u>   |
|--------------|-------------------------------------|--|
| 1            | Rongelap, Kabelle and Gejen Islands | Snails, crab, clam, fish                                     |
| 2            | Likiep and Utirik Islands           | Urine  |
| 3            | Rongelap Island                     | Coconut, portulaca, pandanus, papaya, arrowroot              |
| 4            | Gejen Island                        | Coconut, portulaca, pandanus, arrowroot                      |
| 5            | Rongelap and Gejen Islands          | Well or cistern water, lagoon water, ocean water             |
| 6            | Rongelap and Gejen Islands          | Soil   |
| 7            | Eniaetok Island                     | Marine (including plankton) and plant specimens              |
| 8            | Eniaetok Island                     | Water (including lens) and soil specimens                    |
| 9            | Eniwetak Island                     | Plant, marine, water, soil and bird specimens                |
| 10           | Sifoo Island                        | Plant, marine, water, soil, plankton, bird and egg specimens |
| 11           | Utirik Island                       | Plant, marine, water, soil and coral specimens               |
| 12           | Likiep Island                       | Plant, marine, water, soil, coral and plankton specimens     |

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Additional Specimens Obtained During Second  
Resurvey

| <u>Island</u> | <u>Specimens</u>        |
|---------------|-------------------------|
| Rongelap      | Algae, coral, rat, bird |
| Gejen         | Coral, bird             |
| Kabelle       | Algae, bird, egg        |
| Eniaetok      | Coral, plankton, bird   |
| Eniwetak      | Bird                    |
| Sifoo         | Plankton, bird, egg     |
| Utirik        | Coral, urine            |
| Likiep        | Coral, urine, plankton  |

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