

U. S. NAVAL RADIOLOGICAL DEFENSE LABORATORY  
SAN FRANCISCO 24, CALIFORNIA

IN REPLY REFER  
TO FILE:

3-923  
SHC:lt

6 MAR 1950

Dr. J. H. Harley  
Analytical Branch  
Manager of Operations  
U.S. AEC.  
P.O. Box 30, Ansonia Station  
New York 23, New York

Dear John:

I am enclosing a list with the names and numbers of the fish and marine samples recently collected. I hope that they all arrived in good shape. We do have duplicates on a number of the samples which will serve as cross checks. The plants, water and soil samples will be forwarded as soon as we can divide them. The urine samples which we are also forwarding represent the entire 24 hour volume collected from each individual. In addition we had planned to send a pooled urine sample to Martell and one to the Walter Reed group, but are forwarding these to you as per telephone conversation with Eisenbud.

Hope to see you in New York at the time of the Federation meetings - April 23, i believe.

Best regards,



STANTON H. COHN, PhD.  
Head, Internal Toxicity Branch

Enclosure:

(1) List of samples collected

| <u>NUMBER</u>         | <u>LOCATION</u>    | <u>DESCRIPTION</u>                    |
|-----------------------|--------------------|---------------------------------------|
| <u>FISH:</u>          |                    |                                       |
| <u>RONGELAP ATOLL</u> |                    |                                       |
| 33341508              | Rongelap Is. H-4   | Unicorn (Naso Unicornus)              |
| 3335 69               | " -                | Mullet - (Ocean side)                 |
| 33361519              | " L-4              | Surgeon (Acanthurus triostegus)       |
| 33371512              | " G-4              | Damsel (Pomacentrus nigracans)        |
| 33381521              | " L-4              | Sea Cucumber                          |
| <u>CRAB:</u>          |                    |                                       |
| 33391520              | " L-4              | Langouste <sup>5</sup> Crab (Small)   |
| 33401503              | " F-4              | Red eye                               |
| 33411529              | " H-4              | Grapsus                               |
| <u>CLAM:</u>          |                    |                                       |
| 33 <del>37</del> 1509 | " G-4              |                                       |
| 33431513              | " G-4              |                                       |
| <u>SNAIL:</u>         |                    |                                       |
| 33441530              | " G-4              | Spider                                |
| 33451504              | " F-4              | Ass't - (Small)                       |
| <u>CORAL:</u>         |                    |                                       |
| 33461522              | " G-4              |                                       |
| <u>FISH:</u>          |                    |                                       |
| 33471009              | <u>Kabelle</u> A-3 | Black tip shark (Eulamia melanoptera) |
| 33481536              | " A-4              | Trigger - (Balistes)                  |
| 33491537              | " A-4              | Siganus                               |
| 33501541              | " A-4              | Butterfly                             |
| 33511542              | " A-4              | Damsel - (Pomacentrus)                |

NUMBER      LOCATION      DESCRIPTION

SNAIL:

~~3352 737 Kabelle Is. Helmet (1/2) (not rec'd) analyzed at NRDL \*~~

FISH:

3353 1620 Gegen Is. A-4 Snapper - (Lethrinus)

3354 1622 " A-4 Surgeon

3355 1623 " B-4 Squirrel (2)

CRAB:

3356 1632 " Red eye

SNAIL:

|                |   |          |                                  |  |
|----------------|---|----------|----------------------------------|--|
| 3326 3357 1636 | " | Spider   | (Total/<br>wet wt. (gms)<br>91.4 | (These samples ashed and diluted to 250 ml. with dil. HCl.- your sample is 100/250 of the total) |
| 3327 3358 1637 | " | "        | 90                               |  |
| 3328 3359 1638 | " | Scorpion | 56                               |  |
| 3329 3360 1639 | " | "        | 40                               |  |

CORAL:

3357 1635 "

3358 1634 " (not listed) snail

FISH:

3358 1525B ENiaetok Is. A-4 Scarus (Parrot)

~~3359 1523 " A-4 Angel sample marked 1623 analyzed at NRDL \*~~

3360 1525E " A-4 Goat (Parupenus)

3361 1525A " A-4 Scarus

CRAB:

3362 1026 " B-3 Crab & Snails (Assorted)

CORAL:

3363 1534 " A-4 Coral

5002371  
\* see letter from Cohn, NRDL, dated 7 3 May 1956

| <u>NUMBER</u>            | <u>LOCATION</u>     |     | <u>DESCRIPTION</u>             |
|--------------------------|---------------------|-----|--------------------------------|
| <u>FISH:</u> (Ailingnae) |                     |     |                                |
| 33641551B                | <u>Sifo Is.</u>     | F-4 | Snapper (Letharinus)           |
| 33651553                 | "                   | F-4 | Squirrel                       |
| 33661550                 | "                   | F-4 | Siganus                        |
| 33671552                 | "                   | F-4 | Angel                          |
| 33681551D                | "                   | F-4 | Sergeus ?                      |
| 33691555                 | "                   | F-4 | Butterfly                      |
| <u>CRABS:</u>            |                     |     |                                |
| 3370 661                 | "                   | B-1 | Hermit                         |
| 3371 670                 | "                   | B-1 | Hermit                         |
| 33721021                 | "                   | C-3 | Small Crabs & Snails (Grapsus) |
| <u>FISH:</u>             |                     |     |                                |
|                          | <u>RONGELIK</u>     |     |                                |
| 3373 1566                | <u>Eniwetak Is.</u> | A-4 | Snapper (Lutianus)             |
| 3374 1564                | "                   | A-4 | Damsel -(Kasmira)              |
| 3375 1559B               | "                   | A-4 | Unicorn (Naso Unicornus)       |
| 3376 1559C               | "                   | A-4 | Surgeon (Acanthurus achilles)  |
| <u>FISH:</u>             |                     |     |                                |
| 3377 1608                | <u>Likiep Is.</u>   | A-4 | Sea Bass (Plectropomus)        |
| 3378 1610                | "                   | B-4 | Siganus (Siganide)             |
| 3379 1606                | "                   | A-4 | Butterfly                      |
| 3380 1615                | "                   | B-4 | Damsel                         |
| <u>CORAL:</u>            |                     |     |                                |
| 3381 1617                | "                   | A-4 |                                |

220422Z

FISH:

NUMBER      LOCATION      DESCRIPTION

(Utirik)

FISH:

|          |            |     |  |
|----------|------------|-----|--|
| 33821579 | Utirik Is. | B-4 | Parrot (Scarus)                          |
| 33831593 | "          | D-4 | Stripped surgeon (Acanthurus triostegus) |
| 33841574 | "          | C-4 | Damsel (Pomacentrus nigricans)           |
| 33851577 | "          | C-4 | "  |
| 33861594 | "          | D-4 | Squirrel - (Holocentrus)                 |
| 33871572 | "          | C-4 | Surgeon (Acanthurus)                     |

CRAB:

|           |   |     |                                 |
|-----------|---|-----|---------------------------------|
| 3388 1595 | " | D-4 | Reef crab (Ca <sub>n</sub> cer) |
| 3389 1590 | " | D-4 | Sand                            |
| 3390 1600 | " | D-4 | Hermit                          |

SNAILS:

|           |   |     |              |
|-----------|---|-----|--------------|
| 3391/1598 | " | A-4 | Asst.        |
| 33921575  | " | A-4 | (Cone shell) |

CORAL:

|           |   |     |  |
|-----------|---|-----|--|
| 3393 1601 | " |     |  |
| 33941589  | " | B-4 |  |

Haul # 3603 1598 pky. 2"  
 3604 1998/3 " "

snails (not listed) from Utirik\*  
 starfish "

13

5002373  
 \* see letter from Cohn, NRDL, dated 2 May 1956

| #     | NRDL # | TYPE  | SOURCE       | WET WT (gr) | DIL VOL (ml)         |  |
|-------|--------|-------|--------------|-------------|----------------------|--|
| 3326  | 1636   | snail | spider       | Gejen       | 91.4                 | 250  |
| *3327 | 1637   | snail | spider       | Gejen       | 90                   | 250  |
| 3328  | 1638   | snail | scorpion     | Gejen       | 56                   | 250  |
| 3329  | 1639   | snail | scorpion     | Gejen       | 40                   | 250  |
| 3334  | 1508   | fish  | unicorn      | Rongelap    |                      |  |
| 3335  | 1569   | fish  | mullet       | Rongelap    |                      |  |
| 3338  | 1521   | fish  | sea cucumber | Rongelap    |                      |  |
| 3339  | 1520   | crab  | langousta    | Rongelap    |                      |  |
| 3340  | 1503   | crab  | red eye      | Rongelap    |                      |  |
| 3341  | 1529   | crab  | grapsus      | Rongelap    |                      |  |
| 3342  | 1509   | clam  |              | Rongelap    |                      |  |
| 3343  | 1513   | clam  |              | Rongelap    |                      |  |
| 3344  | 1530   | snail | spider       | Rongelap    |                      |  |
| 3345  | 1504   | snail | assorted     | Rongelap    |                      |  |
| 3347  | 1009   | fish  | shark        | Kabelle     |                      |  |
| 3348  | 1536   | fish  | trigger      | Kabelle     |                      |  |
| 3349  | 1537   | fish  | siganus      | Kabelle     | 560                  | 500  |
| 3352  | 737    | snail | helmet       | Kabelle     |                      |  |
| 3353  | 1620   | fish  | snapper      | Gejen       |                      |  |
| 3355  | 1623   | fish  | squirrel     | Gejen       | 410                  | 500  |
| 3356  | 1632   | crab  | red eye      | Gejen       |                      |  |
| 3358  | 1525B  | fish  | parrot       | Eniwetak    |                      |  |
| 3359  | 1523   | fish  | angel        | Eniaetok    | 99                   | 500  |
| 3360  | 1525E  | fish  | goatfish     | Eniaetok    |                      |  |
| 3361  | 1525A  | fish  | scarus       | Eniaetok    | 140                  | 500  |
| 3362  | 1026   | crab  | assorted     | Eniaetok    | 57 )<br>41 )<br>191) | crabs 500)<br>sea urchin 250)<br>shells 250) |
| 3364  | 1551   | fish  | snapper      | Sifo        | 650                  | 500  |
| 3365  | 1553   | fish  | squirrel     | Sifo        | 52                   | 250  |
| 3366  | 1550   | fish  | siganus      | Sifo        | 590                  | 500  |
| 3367  | 1552   | fish  | angel        | Sifo        | 147                  | 500  |
| 3368  | 1551D  | fish  | sergens      | Sifo        | 185                  | 500  |
| 3370  | 661    | crab  | hermit       | Sifo        | 55                   | 250  |
| 3371  | 670    | crab  | hermit       | Sifo        | 44                   | 250  |
| 3372  | 1021   | crab  | assorted     | Sifo        | 234<br>81            | crabs 500)<br>snails 500)                    |
| 3373  | 1566   | fish  | snapper      | Eniwetak    | 185                  | 500  |
| 3375  | 1559B  | fish  | unicorn      | Eniwetak    | 93                   | 250  |
| 3377  | 1608   | fish  | sea bass     | Likiep      | 457                  | 1000   |
| 3378  | 1610   | fish  | siganus      | Likiep      | 380                  | 500  |
| 3382  | 1579   | fish  | parrot       | Uterik      | 346                  | 500  |
| 3386  | 1594   | fish  | squirrel     | Uterik      |                      |  |
| 3388  | 1595   | crab  | reef         | Uterik      | 104                  | 500  |
| 3389  | 1590   | crab  | sand         | Uterik      | 46                   | 250  |

\*Represent  $\frac{100}{250}$

5002374

| HASL # | NRDL # | TYPE  | SOURCE     | WET WT<br>(gr) | DIL VOL<br>(ml) |                       |
|--------|--------|-------|------------|----------------|-----------------|-----------------------|
| 3390   | 1600   | crab  | hermit     | Uterik         | 17<br>18        | shell 250<br>crab 250 |
| 3391   | 1598   | snail | assorted   | Uterik         |                 |                       |
| 3392   | 1575   | snail | cone shell | Uterik         |                 |                       |

5002375