

Also enclosed are copies of pages from the published Livermore report, UCRL-52853, Part 4. There is a discrepancy between this and the preliminary draft, the Pu value of 4 pCi/gram for Arbar did not appear in the published report.

With best regards,


W.J. Barr, Ph.D.
Manager
Life Sciences Center

WJB:taz

REPOSITORY P.N.N.L.
COLLECTION Marshall Islands
BOX NO. 5689
FOLDER T4 Marshall Islands

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by R. Schulte Date 5/1/97

COLOR CODING USED ON MAPS

The color coding used on the maps in "The Meaning of Radiation for Those Atolls in the Northern Part of the Marshall Islands that Were Survey in 1978" was based on the concentration of radionuclides (mainly Cs and Sr) in the top 5 cm of soil. These values were taken from a preliminary draft of the report by Dr. Bill Robison, Lawrence Livermore National Laboratory. The following are the soil values and the color codes for Rongelap. The color code used was:

| | (pCi/g dry wt) | |
|-----------------------------|----------------|----------------|
| | <u>Cs + Sr</u> | <u>Pu + Am</u> |
| 4 (darkest intensity color) | > 100 | > 50 |
| 3 | 20-100 | 15-50 |
| 2 | 2-20 | 1-15 |
| 1 (lighted intensity color) | < 1 | < 1 |

The values for Rongelap follow:

| | <u>Cs</u> | <u>Sr</u> | <u>Cs + Sr</u> | <u>Code</u> | <u>Pu</u> | <u>Am</u> | <u>Pu + Am</u> | <u>Code</u> |
|-----------|-----------|-----------|----------------|-------------|-----------|-----------|----------------|-------------|
| Boruk | 36 | 17 | 53 | 3 | 7.2 | 2.6 | 9.8 | 2 |
| Namen | 40 | 46 | 86 | 3 | 14 | 6.7 | 20.7 | 3 |
| Eneaeetok | 7 | 9.5 | 16.5 | 2 | 2 | .71 | 2.71 | 2 |
| Lomwilal | 36 | 95 | 131 | 4 | 19 | 5 | 24 | 3 |
| Ekoj | 170 | 46 | 216 | 4 | 14.91 | 6.5 | 21.41 | 3 |
| Rongelap | 15 | 6.9 | 21.9 | 3 | 3.2 | 1 | 4.2 | 2 |
| Mellu | 71 | 45 | 116 | 4 | 14 | 5.8 | 19.8 | 3 |
| Arbar | 12 | - | 12 | 2 | 4 | 3.8 | 7.8 | 2 |
| Naen | 95 | 150 | 245 | 4 | 29 | 13 | 42 | 3 |

Table B-1. Average ^{137}Cs soil concentrations from the Northern Marshall Islands survey.

| Atoll and island | Number of samples | ^{137}Cs (pCi/g dry weight of soil) | | | | |
|-------------------------|-------------------------|--|---------------|---------------|---------------|---------------|
| | | 0 to 5 cm | 0 to 10 cm | 0 to 15 cm | 0 to 25 cm | 0 to 40 cm |
| Likiep (L) ^a | | | | | | |
| Agony (45) ^b | 3 | 1 | 0.79 | 0.6 | 0.39 | 0.26 |
| Kapenor (55) | 6 | 0.65 | 0.43 | 0.32 | 0.21 | 0.15 |
| Jeltonet (13) | 3 | 0.34 | 0.24 | 0.18 | 0.12 | 0.088 |
| Likiep (37) | 12 | 0.65 | 0.45 | 0.35 | 0.24 | 0.17 |
| Rikuraru (2) | 12 | 1 | 0.68 | 0.5 | 0.34 | 0.24 |
| Etoile (47) | 4 | 0.43 | 0.39 | 0.33 | 0.26 | 0.19 |
| Mejit (R) | | | | | | |
| Mejit (1) | 8 | 0.56 | 0.41 | 0.33 | 0.22 | 0.15 |
| Ailuk (A) | | | | | | |
| Enijabro (2) | 4 | 0.64 | 0.46 | 0.37 | 0.25 | 0.18 |
| Enejelar (4) | 5 | 0.98 | 0.76 | 0.57 | 0.38 | 0.26 |
| Bigen (7) | 4 | 0.48 | 0.33 | 0.26 | 0.17 | 0.11 |
| Agulue (53) | 7 | 0.63 | 0.44 | 0.34 | 0.22 | 0.15 |
| Aliet (20) | 4 | 1.3 | 0.97 | 0.75 | 0.48 | 0.31 |
| Ailuk (51) | 13 | 0.6 | 0.44 | 0.35 | 0.25 | 0.18 |
| Bererjao (33) | 4 | 0.7 | 0.78 | 0.32 | 0.21 | 0.14 |
| Kapen (1) | 4 | 0.7 | 0.45 | 0.32 | 0.21 | 0.14 |
| Utirik (I) | | | | | | |
| Aon (8) | 10 | 2.6 | 1.9 | 1.5 | 0.99 | 0.65 |
| Pigowak (3) | 8 | 4.4 | 3.3 | 2.7 | 1.8 | 1.1 |
| Utirik (6) | 28 | 2.4 | 1.8 | 1.4 | 0.96 | 0.66 |
| Wotho (M) | | | | | | |
| Medyeron (1) | 8 | 1.4 | 0.86 | 0.62 | 0.4 | 0.29 |
| Wotho (4) | 15 | 0.37 | 0.29 | 0.25 | 0.17 | 0.12 |
| Kabben (17) | 6 | 0.16 | 0.16 | 0.14 | 0.11 | 0.079 |
| Ujelang (J) | | | | | | |
| Ennimenetto (23) | 5 | 0.44 | 0.44 | 0.43 | 0.39 | 0.42 |
| Burle (20) | 3 | 0.8 | 0.67 | 0.51 | 0.37 | 0.30 |
| Eimnlapp (22) | 4 | 0.9 | 0.73 | 0.58 | 0.42 | 0.29 |

| | | | | | | |
|------------------|----|------|------|------|-------|--------|
| Eniwetok (11) | 11 | 6.5 | 5.2 | 4.2 | 3 | 2.2 |
| Bigonattam (5) | 2 | 8.6 | 6.6 | 5.1 | 3.4 | 2.2 |
| Jedibberdib (1) | 1 | 7 | 6.9 | 5.6 | 3.9 | 2.5 |
| Latoback (2) | 4 | 16 | 13 | 9.8 | 6.4 | 4.3 |
| Bock (12) | 2 | 1.8 | 2.1 | 2.2 | 1.9 | 1.3 |
| Rongerik (6) | 7 | 33 | 23 | 17 | 11 | 7.2 |
| Bikar (D) | | | | | | |
| Jaboerukku (1) | 4 | 0.35 | 0.22 | 0.19 | 0.16 | 0.11 |
| Arumenii (2) | 1 | 0.23 | 0.23 | 0.17 | <0.10 | <0.083 |
| Bikar (4) | 2 | 0.43 | 0.44 | 0.43 | 0.44 | 0.33 |

Table B-1. (Continued)

| 0 to 40 cm | Atoll and island | Number of samples | ¹³⁷ Cs (pCi/g dry weight of soil) | | | | |
|-----------------|--------------------------------------|-------------------------|--|---------------|---------------|---------------|---------------|
| | | | 0 to 5 cm | 0 to 10 cm | 0 to 15 cm | 0 to 25 cm | 0 to 40 cm |
| Jemo (S) | | | | | | | |
| 0.14 | Jemo (I) | 3 | 0.33 | 0.31 | <0.27 | <0.18 | <0.11 |
| 0.084 | Ailinginae (C) | | | | | | |
| 0.069 | Ucchuwanen (15) | 2 | 11 | 7 | 5.4 | 3.6 | 2.6 |
| 0.2 | Knox (10) | 3 | 17 | 12 | 9 | 5.8 | 3.8 |
| 0.39 | Mogiri (24) | 6 | 6.1 | 5.4 | 4.4 | 3.2 | 2.3 |
| <0.10 | Sifo (27) | 6 | 1.4 | 1.4 | 1.2 | 0.82 | 0.56 |
| 7.3 | Ribinouri (19) | 4 | 5.4 | 4.3 | 3.8 | 2.6 | 1.8 |
| 11 | Enibuk (17) | 9 | 4.4 | 3.5 | 2.9 | 2.2 | 1.7 |
| 4.3 | Manchinikson (25) | 3 | 6.1 | 7.7 | 7 | 5.3 | 3.5 |
| 22 | Kuobuen (18) | 3 | 6 | 4.5 | 3.9 | 2.7 | 1.8 |
| 30 | Majokoryaan (8) | 2 | 3.4 | 2 | 1.7 | 1.3 | 0.94 |
| 5 | ^a Code letter for atoll. | | | | | | |
| 24 | ^b Code number for island. | | | | | | |
| 5 | | | | | | | |
| 29 | | | | | | | |
| 2.2 | | | | | | | |
| 2.2 | | | | | | | |
| 2.5 | | | | | | | |
| 4.3 | | | | | | | |
| 1.3 | | | | | | | |
| 7.2 | | | | | | | |
| 0.11 | | | | | | | |
| <0.083 | | | | | | | |
| 0.33 | | | | | | | |

Objectives

| | | | | | | |
|------------------|---|------|------|----|----|----|
| Ennimenetto (23) | 5 | 0.24 | 0.28 | -- | -- | -- |
| Burle (20) | 3 | 0.2 | 0.2 | -- | -- | -- |
| Eimnlapp (22) | 4 | 0.44 | 0.37 | -- | -- | -- |

Table B-2. (Continued)

| 0 to 40 cm | Atoll and island | Number of samples | 90Sr (pCi/g dry weight of soil) | | | | |
|--------------------------------|------------------|-------------------------|---------------------------------|---------------|---------------|---------------|---------------|
| | | | 0 to 5 cm | 0 to 10 cm | 0 to 15 cm | 0 to 25 cm | 0 to 40 cm |
| Ujelang (J) (continued) | | | | | | | |
| 0.14 | Kalo (25) | 5 | 0.12 | 0.13 | 0.14 | 0.12 | 0.096 |
| 0.085 | Daisu (17) | 6 | 0.12 | -- | -- | -- | -- |
| -- | Pokon (5) | 3 | 0.12 | -- | -- | -- | -- |
| 0.11 | Ujelang (18) | 23 | 0.2 | 0.19 | 0.16 | 0.14 | 0.11 |
| -- | Taka (H) | | | | | | |
| 0.11 | Taka (4) | 8 | 1.19 | 1.0 | 0.85 | 0.58 | 0.43 |
| -- | Eluk (5) | 1 | 0.21 | 0.74 | -- | -- | -- |
| 0.18 | Rongelap (F) | | | | | | |
| -- | Borukka (49) | 3 | 17 | 14 | 12 | -- | -- |
| -- | Kabelle (13) | 5 | 46 | 32 | 29 | 24 | 17 |
| -- | Eniaetok (33) | 6 | 9.5 | 11 | 10 | 8.2 | 8.3 |
| -- | Lomuilal (7) | 4 | 95 | 81 | 66 | 49 | 35 |
| 0.13 | Yugui (5) | 1 | 46 | 38 | 30 | 20 | 14 |
| 0.20 | Rongelap (42) | 20 | 6.9 | 7.3 | 7.1 | 6.1 | 4.6 |
| 0.18 | Mellu (23) | 4 | 45 | 39 | 36 | 27 | 21 |
| 0.15 | Arbar (43) | -- | -- | -- | -- | -- | -- |
| -- | Naen (1) | 7 | 150 | 134 | 110 | 77 | 53 |
| Rongerik (G) | | | | | | | |
| -- | Eniwetak (11) | 8 | 5.8 | 6.5 | 5.2 | 3.8 | -- |
| -- | Bigonattam (5) | -- | -- | -- | -- | -- | -- |
| 0.59 | Jedibberdib (1) | -- | -- | -- | -- | -- | -- |
| -- | Latoback (2) | -- | -- | -- | -- | -- | -- |
| 0.35 | Bock (12) | 1 | 4.6 | 4.3 | 4.7 | 4.2 | 3.3 |
| 0.057 | Rongerik (6) | 2 | 30 | 20 | 17 | 12 | 8.5 |
| 0.06 | Bikar (D) | | | | | | |
| -- | Jaboerukku (1) | 4 | 6.8 | 5.3 | -- | -- | -- |
| -- | Arumenii (2) | 1 | 2.2 | 3.1 | -- | -- | -- |
| -- | Bikar (4) | 2 | 0.87 | 0.84 | -- | -- | -- |

a Code letter for atoll.
b Code number for island.

Table B-3. Average $^{239+240}\text{Pu}$ soil concentrations from the Northern Marshall Islands survey.

| Atoll and island | Number of samples | 239+240Pu (pCi/g dry weight of soil) | | | | |
|--------------------|-------------------------|--------------------------------------|---------------|---------------|---------------|---------------|
| | | 0 to 5 cm | 0 to 10 cm | 0 to 15 cm | 0 to 25 cm | 0 to 40 cm |
| Likiep (L) | | | | | | |
| Agony (45) | 3 | 0.041 | 0.036 | 0.029 | 0.019 | 0.012 |
| Kapenor (55) | -- | -- | -- | -- | -- | -- |
| Jeltonet (13) | -- | -- | -- | -- | -- | -- |
| Likiep (37) | 5 | 0.054 | 0.043 | 0.033 | 0.022 | 0.014 |
| Rikuraru (2) | -- | -- | -- | -- | -- | -- |
| Etoile (47) | 3 | 0.034 | 0.034 | 0.029 | 0.022 | 0.015 |
| Mejit (R) | | | | | | |
| Mejit (1) | 8 | 0.059 | 0.043 | 0.035 | 0.025 | 0.017 |
| Ailuk (A) | | | | | | |
| Enijabro (2) | 1 | -- | -- | -- | -- | -- |
| Enejelar (4) | 5 | -- | -- | -- | -- | -- |
| Bigen (7) | 3 | -- | -- | -- | -- | -- |
| Agulue (53) | 7 | 0.069 | 0.048 | 0.036 | 0.023 | 0.014 |
| Aliet (20) | 1 | 0.17 | 0.11 | 0.074 | 0.045 | 0.029 |
| Ailuk (51) | 13 | 0.098 | 0.081 | 0.059 | 0.038 | 0.024 |
| Bererjao (33) | 4 | 0.12 | 0.095 | 0.067 | 0.041 | 0.027 |
| Kapen (1) | -- | -- | -- | -- | -- | -- |
| Utirik (I) | | | | | | |
| Aon (8) | -- | -- | -- | -- | -- | -- |
| Pigowak (3) | -- | -- | -- | -- | -- | -- |
| Utirik (6) | 16 | 0.51 | 0.39 | 0.3 | 0.18 | 0.12 |
| Wotho (M) | | | | | | |
| Medyeron (1) | 8 | 0.072 | 0.049 | 0.035 | 0.023 | 0.015 |
| Wotho (4) | 9 | 0.031 | 0.022 | 0.016 | 0.010 | 0.0066 |
| Kabben (17) | 5 | 0.011 | 0.011 | 0.010 | 0.0073 | 0.0050 |
| Ujelang (J) | | | | | | |
| Ennimenetto (23) | -- | -- | -- | -- | -- | -- |
| Burle (20) | -- | -- | -- | -- | -- | -- |
| Eimnlapp (22) | -- | -- | -- | -- | -- | -- |

Table B-3. (Continued)

| Atoll and island | Number of samples | 239+240Pu (pCi/g dry weight of soil) | | | | |
|--------------------------------|-------------------------|--------------------------------------|---------------|---------------|---------------|---------------|
| | | 0 to 5 cm | 0 to 10 cm | 0 to 15 cm | 0 to 25 cm | 0 to 40 cm |
| Ujelang (J) (continued) | | | | | | |
| Kalo (25) | 5 | 0.032 | 0.029 | 0.035 | 0.027 | 0.019 |
| Daisu (17) | -- | -- | -- | -- | -- | -- |
| Pokon (5) | -- | -- | -- | -- | -- | -- |
| Ujelang (18) | 14 | 0.04 | 0.033 | 0.028 | 0.019 | 0.013 |
| Taka (H) | | | | | | |
| Taka (4) | 8 | 0.12 | 0.078 | 0.067 | 0.044 | 0.029 |
| Eluk (5) | 1 | 0.098 | 0.074 | -- | -- | -- |
| Rongelap (F) | | | | | | |
| Borukka (49) | 3 | 7.2 | 4.0 | 2.8 | -- | -- |
| Kabelle (13) | 5 | 14 | 8.6 | 6.95 | 5.31 | 3.59 |
| Eniaetok (33) | 6 | 2 | 2.6 | 2.6 | 2.3 | 1.4 |
| Lomuilal (7) | 4 | 19 | 16 | 13 | 8.6 | 5.5 |
| Yugui (5) | 1 | 15 | 8.6 | 5.9 | 3.7 | 2.3 |
| Rongelap (42) | 18 | 3.2 | 2.6 | 2.1 | 1.4 | 0.89 |
| Mellu (23) | 4 | 14 | 9.9 | 7.0 | 4.4 | 3.5 |
| Arbar (43) | 43 | -- | -- | -- | -- | -- |
| Naen (1) | 7 | 29 | 25 | 20 | 13 | 8.4 |
| Rongerik (G) | | | | | | |
| Eniwetak (11) | 8 | 2.5 | 1.9 | 1.4 | 0.87 | -- |
| Bigonattam (5) | -- | -- | -- | -- | -- | -- |
| Jedibberdib (1) | -- | -- | -- | -- | -- | -- |
| Latoback (2) | -- | -- | -- | -- | -- | -- |
| Bock (12) | 1 | 0.49 | 0.54 | 0.66 | 0.66 | 0.44 |
| Rongerik (6) | 2 | 2.3 | 1.4 | 1.2 | 0.8 | 0.51 |
| Bikar (D) | | | | | | |
| Jaboerukku (1) | 4 | 5.1 | 3.1 | -- | -- | -- |
| Arumenii (2) | 1 | 2.1 | 2.6 | -- | -- | -- |
| Bikar (4) | 2 | 0.045 | 0.054 | -- | -- | -- |

Table B-3. (Continued)

| Atoll and island | Number of samples | 239+240Pu (pCi/g dry weight of soil) | | | | |
|-----------------------|-------------------------|--------------------------------------|---------------|---------------|---------------|---------------|
| | | 0 to 5 cm | 0 to 10 cm | 0 to 15 cm | 0 to 25 cm | 0 to 40 cm |
| Jemo (S) | | | | | | |
| Jemo (I) | -- | -- | -- | -- | -- | -- |
| Ailinginae (C) | | | | | | |
| Ucchuwanen (15) | 2 | 4.5 | 2.5 | -- | -- | -- |
| Knox (10) | 3 | 2.7 | 1.7 | -- | -- | -- |
| Mogiri (24) | 6 | 0.98 | 0.75 | 0.55 | 0.35 | 0.23 |
| Sifo (27) | 6 | 0.39 | 0.36 | -- | -- | -- |
| Ribinouri (19) | 4 | 0.79 | 0.66 | 0.82 | 0.54 | 0.35 |
| Enibuk (23) | 9 | 2.4 | 1.4 | -- | -- | -- |
| Manchinikson (25) | 3 | 1.1 | 1.0 | -- | -- | -- |
| Kuobuen (18) | 3 | 1.3 | 0.70 | -- | -- | -- |
| Majokoryaan (8) | 2 | 3.7 | 2.0 | -- | -- | -- |

^a Code letter for atoll.^b Code number for island.

Table B-4. Average ^{241}Am soil concentrations from the Northern Marshall Islands survey.

| Atoll and island | Number of samples | ^{241}Am (pCi/g dry weight of soil) | | | | |
|-------------------------------|-------------------------|--|---------------|---------------|---------------|---------------|
| | | 0 to 5 cm | 0 to 10 cm | 0 to 15 cm | 0 to 25 cm | 0 to 40 cm |
| Likiep (L)^a | | | | | | |
| Agony (45) ^b | 3 | 0.019 | 0.017 | 0.013 | 0.0088 | 0.0056 |
| Kapenor (55) | 1 | 0.017 | 0.012 | 0.0081 | 0.0052 | 0.0034 |
| Jeltonet (13) | 3 | -- | -- | -- | -- | -- |
| Likiep (37) | 5 | 0.031 | 0.025 | 0.019 | 0.013 | 0.0084 |
| Rikuraru (2) | 3 | <0.021 | <0.037 | <0.040 | <0.037 | <0.037 |
| Etoile (47) | 3 | 0.016 | 0.014 | 0.011 | 0.0075 | 0.0047 |
| Mejit (R) | | | | | | |
| Mejit (1) | 6 | 0.036 | 0.026 | 0.021 | 0.014 | 0.0095 |
| Ailuk (A) | | | | | | |
| Enijabro (2) | 1 | <0.021 | <0.019 | 0.010 | 0.0059 | 0.0023 |
| Enejelar (4) | 5 | 0.039 | 0.026 | 0.032 | 0.021 | 0.014 |
| Bigen (7) | 4 | <0.023 | <0.025 | <0.020 | <0.014 | <0.014 |
| Agulue (53) | 7 | 0.033 | 0.024 | 0.018 | 0.012 | 0.0074 |
| Aliet (20) | 2 | <0.014 | 0.014 | 0.012 | 0.0078 | 0.005 |
| Ailuk (51) | 12 | 0.060 | 0.036 | 0.028 | 0.018 | 0.012 |
| Bererjao (33) | 2 | 0.068 | 0.058 | 0.042 | 0.026 | 0.016 |
| Kapen (1) | 4 | 0.063 | 0.032 | 0.023 | 0.014 | 0.0090 |
| Utirik (I) | | | | | | |
| Aon (8) | 1 | 0.25 | 0.17 | <0.12 | <0.17 | <0.14 |
| Pigowak (3) | 1 | 0.12 | 0.17 | 0.086 | 0.06 | -- |
| Utirik (6) | 26 | 0.24 | 0.18 | 0.13 | 0.083 | 0.059 |
| Wotho (M) | | | | | | |
| Medyeron (1) | 4 | 0.061 | 0.038 | 0.039 | 0.034 | 0.022 |
| Wotho (4) | 10 | 0.037 | 0.028 | 0.034 | 0.044 | 0.042 |
| Kabben (17) | 5 | 0.0067 | 0.0080 | 0.007 | 0.0053 | 0.0036 |
| Ujelang (J) | | | | | | |
| Ennimenetto (23) | 4 | 0.047 | 0.030 | <0.04 | <0.042 | <0.036 |
| Burle (20) | 2 | 0.019 | 0.015 | <0.033 | <0.071 | <0.058 |
| Eimnlapp (22) | 3 | 0.069 | 0.043 | <0.048 | <0.043 | <0.043 |

Table B-4. (Continued)

| 0 to 40 cm | Atoll and island | Number of samples | ^{241}Am (pCi/g dry weight of soil) | | | | |
|-------------------------|------------------|-------------------------|--|---------------|---------------|---------------|---------------|
| | | | 0 to 5 cm | 0 to 10 cm | 0 to 15 cm | 0 to 25 cm | 0 to 40 cm |
| Ujelang (J) (continued) | | | | | | | |
| 0.0056 | Kalo (25) | 5 | 0.011 | 0.010 | 0.0091 | 0.0080 | -- |
| 0.0034 | Daisu (17) | 6 | 0.031 | 0.0099 | 0.045 | 0.052 | 0.055 |
| -- | Pokon (5) | 2 | 0.0087 | 0.039 | <0.041 | <0.053 | <0.078 |
| 0.0084 | Ujelang (18) | 18 | 0.013 | 0.012 | 0.0095 | 0.028 | 0.018 |
| <0.037 | | | | | | | |
| 0.0047 | Taka (H) | 8 | 0.12 | 0.096 | 0.071 | 0.044 | 0.029 |
| | Eluk (5) | 1 | 0.15 | 0.09 | -- | -- | -- |
| 0.0095 | Rongelap (F) | | | | | | |
| | Borukka (49) | 3 | 2.6 | 1.5 | 1.1 | -- | -- |
| 0.0023 | Kabelle (13) | 2 | 6.7 | 5.7 | 2.5 | 1.7 | 1.2 |
| 0.014 | Eniaetok (33) | 5 | 0.71 | 1.2 | 1.1 | 0.74 | 0.47 |
| <0.014 | Lomuilal (7) | 2 | 5 | 7 | 6.6 | 4.8 | 3.1 |
| 0.0074 | Yugui (5) | 1 | 6.5 | 4.0 | 2.8 | 1.7 | 1.1 |
| 0.005 | Rongelap (42) | 17 | 1 | 0.89 | 0.73 | 0.51 | 0.35 |
| 0.012 | Mellu (23) | 2 | 5.8 | 4.2 | 3.1 | 2 | 1.4 |
| 0.016 | Arbar (43) | 1 | 3.8 | -- | -- | -- | -- |
| 0.0090 | Naen (1) | 6 | 13 | 11 | 8.7 | 5.6 | 3.7 |
| Rongerik (G) | | | | | | | |
| <0.14 | Eniwetak (11) | 4 | 1.2 | 1.3 | -- | -- | -- |
| -- | Bigonattam (5) | -- | -- | -- | -- | -- | -- |
| 0.059 | Jedibberdib (1) | 1 | 1.9 | -- | -- | -- | -- |
| | Latoback (2) | 2 | 1.5 | 1.1 | 0.74 | 0.48 | -- |
| 0.022 | Bock (12) | 1 | 0.44 | 0.40 | -- | -- | -- |
| 0.042 | Rongerik (6) | 2 | 4.9 | 2.8 | 2 | 1.2 | 0.77 |
| 0.0036 | Bikar (D) | | | | | | |
| | Jaboerukku (1) | 4 | 0.78 | 0.47 | 0.32 | -- | -- |
| <0.036 | Arumenii (2) | 1 | 0.34 | 0.44 | <0.30 | <0.19 | <0.13 |
| <0.058 | Bikar (4) | 2 | 0.094 | 0.067 | 0.069 | 0.082 | <0.061 |
| <0.043 | | | | | | | |

Table B-4. (Continued)

| Atoll and island | Number of samples | ^{241}Am (pCi/g dry weight of soil) | | | | |
|-----------------------|-------------------------|--|---------------|---------------|---------------|---------------|
| | | 0 to 5 cm | 0 to 10 cm | 0 to 15 cm | 0 to 25 cm | 0 to 40 cm |
| Jemo (S) | | | | | | |
| Jemo (1) | 1 | 0.011 | 0.0093 | <0.016 | <0.016 | <0.018 |
| Ailinginae (C) | | | | | | |
| Ucchuwanen (15) | -- | -- | -- | -- | -- | -- |
| Knox (10) | 1 | 0.63 | 0.35 | <0.25 | <0.18 | <0.13 |
| Mogiri (24) | 4 | 0.39 | 0.31 | 0.23 | 0.15 | 0.098 |
| Sifo (27) | 6 | 0.18 | 0.19 | 0.18 | 0.13 | -- |
| Ribinouri (19) | 3 | 0.43 | 0.34 | 0.33 | 0.22 | 0.14 |
| Enibuk (23) | 4 | 2.1 | 1.1 | <0.75 | <0.46 | <0.32 |
| Manchinikson (25) | 3 | 0.41 | 0.44 | 0.34 | 0.25 | 0.16 |
| Kuobuen (18) | 3 | 0.45 | 0.27 | 0.19 | 0.13 | 0.08 |
| Majokoryaan (8) | 2 | 0.94 | 0.54 | 0.48 | 0.50 | 0.34 |

^a Code letter for atoll.^b Code number for atoll.