

PROFILE SAMPLES

409841

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WORDS OF WISDOM + WARNING:

1. THE "10" AND "20" cm SAMPLES ARE VERY APPROXIMATELY ~~AND~~ AT THOSE DEPTHS, AND WERE TAKEN VERY CRUELY.
2. SUGGEST YOU KEEP IN MIND NOT ONLY THE % AS A MEASURE OF CHANGE WITH DEPTH, BUT ALSO THE ABSOLUTE NUMBERS (I.E., PLACES THAT ARE LOW AT THE SURFACE TEND TO SHOW LITTLE DROPOFF WITH DEPTH).
3. QUESTIONABLE DATA VALUES ARE USUALLY THOSE THAT HAD MORE Am THAN Pu-239, 240.
4. SOME OF THE MISSING VALUES WERE TAKEN, BUT WE DON'T HAVE THE DATA. THOSE ON ~~WATER~~ AOMON WEREN'T TAKEN BECAUSE OF SHALLOW SOIL. (BEACH ROCK IS HARD TO SCOOP UP!)
5. TRU = Am-241 + Pu-238 + 239 + 240.
Pu = Pu-238 + 239 + 240.

REPOSITORY PNNL
COLLECTION Marshall Islands
BOX No. 5685
FOLDER Soil IMP Data

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by P. K. Schwab Date 4/29/97

6. THERE ARE SOME DATA POINTS ON BELLE (BOKOMBAKO) AND CLARA (KIRUNU) WHERE WE SUSPECT APPARENTLY ANOMALOUS DEPTH GRADIENTS TO BE DUE TO THE SAMPLING CANS OR LABELS BEING MIXED UP IN THE FIELD. THE POSSIBILITY WILL BE CHECKED OUT WITH ENEWETAK; WE MAY ~~DECIDE~~ DECIDE TO REQUEST RESAMPLING.

Pu 238, 239, 240

SOIL DATA, ISLAND: TILDA (BIJIRE)

| LOCATION/COMPOSITE | 0 cm (SURFACE) | | 10 cm | | 20 cm | |
|---|----------------|----|----------|-----------|----------|-----------|
| | pCi/g Pu | Pu | pCi/g Pu | % of 0 cm | pCi/g Pu | % of 0 cm |
| 2-BL-0 A | 2.72 | | 0.63 | 23.2 | 1.01 | 37.1 |
| B | 1.76 | | 0.75 | 42.6 | 0.75 | 42.6 |
| 6-N-4 A | 5.32 | | 7.15 | 134.4 | 5.00 | 94.0 |
| B | 5.93 | | 4.09 | 69.0 | 1.53 | 25.8 |
| 8-S-4 A | 5.97 | | 2.97 | 49.7 | 0.42 | 7.0 |
| B | 5.95 | | 0.65 | 10.9 | 0.55 | 9.2 |
| 12-S-12 A | 5.03 | | <MDA | - | 6.19 | 123.1 |
| B | 4.88 | | 3.82 | 78.3 | 1.96 | 40.2 |
| 14-N-4 A | 1.23 | | * | - | 0.98 | 79.7 |
| B | 2.25 | | * | - | 1.22 | 54.2 |
| 14.25-S-2 A | 4.68 | | * | - | 1.08 | 23.1 |
| B | 9.30 | | * | - | 0.60 | 6.5 |
| * HAVE NOT RECEIVED DATA AS OF 8 MAY 78 | | | | | | |
| MDA - MINIMUM DETECTABLE ACTIVITY | | | | | | |

Pu 238, 239, 240

SOIL DATA, ISLAND: RUBY (ELELERON)

| LOCATION/COMPOSITE | 0 cm (SURFACE) | 10 cm | | 20 cm | |
|--|----------------|----------|-----------|----------|-----------|
| | pCi/g Pu | pCi/g Pu | % of 0 cm | pCi/g Pu | % of 0 cm |
| 1-BL-0 A | 3.19 | * | - | 5.88 | 184.3 |
| B | 3.39 | * | - | 4.40 | 129.8 |
| 3-BL-0 A | 5.96 | * | - | 4.80 | 80.5 |
| B | 5.90 | * | - | 4.55 | 77.1 |
| 4-BL-0 A | 5.25 | * | - | 7.54 | 143.6 |
| B | 5.90 | * | - | 6.26 | 106.1 |
| 5-BL-0 A | 3.58 | * | - | 4.40 | 122.9 |
| B | 4.14 | * | - | 4.23 | 102.2 |
| * * HAVE NOT RECEIVED DATA AS OF 8 MAY 78. | | | | | |

Pu 238, 239, 240

SOIL DATA, ISLAND: WILMA (BILLAE)

| LOCATION/COMPOSITE | 0 cm (SURFACE) | | 10 cm | | 20 cm | |
|--|----------------|------|-------|----|-------|-------|
| | pCi/g | Pu | pCi/g | Pu | pCi/g | Pu |
| 0-S-4 | A | 0.58 | * | - | 0.36 | 62.1 |
| | B | 0.57 | * | - | 0.47 | 82.5 |
| 2-N-2 | A | 3.41 | * | - | 3.60 | 105.6 |
| | B | 6.03 | * | - | 8.20 | 136.0 |
| 4-N-6 | A | 3.12 | * | - | 0.69 | 22.1 |
| | B | 1.57 | * | - | 1.42 | 90.4 |
| 8-N-8 | A | 4.63 | * | - | 1.26 | 27.2 |
| | B | 4.97 | * | - | 3.03 | 61.0 |
| * HAVE NOT RECEIVED DATA AS OF 8 MAY 78. | | | | | | |

Pu-238, 239, 240

SOIL DATA, ISLAND: IRENE (BOKEN)

| LOCATION/COMPOSITE | 0cm (SURFACE) | | 10 cm | | 20 cm | |
|--------------------|---------------|---------------------------|----------|-----------|----------|-----------|
| | pCi/g Pu | Pu ^{238,239,240} | pCi/g Pu | % of 0 cm | pCi/g Pu | % of 0 cm |
| 3-BL-0 A | 6.8 | | 7.03 | 104.1 | 3.19 | 120.4 |
| B | 7.18 | | 6.85 | 95.4 | 3.03 | 111.8 |
| 7-S-3 A | 14.8 | | 26.45 | 178.7 | 10.94 | 73.9 |
| B | 52.9 | | 28.22 | 53.3 | 53.5 | 101.1 |
| 8-N-1 A | 20.85 | | 22.5 | 107.9 | 42.01 | 201.5 |
| B | 23.14 | | 30.71 | 132.7 | 35.62 | 153.9 |
| 10-S-4 A | 17.68 | | 40.67 | 230.0 | 60.4 | 341.6 |
| B | 12.82 | | 67.5 | 526.5 | 52.5 | 409.5 |
| 13-N-2 A | 41.71 | | 46.1 | 110.5 | 26.3 | 63.1 |
| B | 66.9 | | 50.2 | 75.0 | 51.2 | 76.5 |
| 1-BL-0 A | 3.53 | | 3.91 | 109.2 | 3.54 | 98.9 |
| B | 3.63 | | 4.47 | 123.1 | 4.15 | 114.3 |
| 5-N-1 A | 14.55 | | 11.57 | 79.5 | 2.2 | 15.1 |
| B | 12.87 | | 8.32 | 64.6 | 8.18 | 63.6 |
| 6-N-1 A | 14.85 | | 16.16 | 108.8 | 18.28 | 123.1 |
| B | 14.95 | | 11.95 | 79.9 | 12.11 | 81.0 |
| 10-N-2 A | 24.87 | | 28.15 | 113.2 | 18.08 | 72.7 |
| B | 24.57 | | 24.45 | 99.5 | 24.34 | 99.1 |
| 8-S-1 A | 27.36 | | 46.38 | 169.5 | 36.07 | 131.8 |
| B | 76.36 | | 140.84 | 184.4 | 139.93 | 183.3 |

Pu 238, 239, 240

SOIL DATA, ISLAND: MARY (BOKENELAS)

| LOCATION/COMPOSITE | 0 cm (SURFACE) | | 10 cm | | 20 cm | |
|--|----------------|----|----------|-----------|----------|-----------|
| | pCi/g | Pu | pCi/g Pu | % OF 0 cm | pCi/g Pu | % OF 0 cm |
| 0-BL-0 A | 15.86 | | * | - | 3.42 | 21.6 |
| B | 7.27 | | * | - | 5.70 | 78.4 |
| 2-N-2 A | 19.15 | | * | - | 3.69 | 19.3 |
| B | 16.72 | | * | - | 11.70 | 70.0 |
| 6-BL-0 A | 4.05 | | * | - | 3.22 | 79.5 |
| B | 4.05 | | * | - | 3.93 | 97.0 |
| 10-BL-0 A | * | | * | - | 6.26 | - |
| B | 3.10 | | * | - | 2.22 | 71.6 |
| 12-S-2 A | * | | 9.32 | - | 3.84 | - |
| B | 5.06 | | 12.28 | 242.7 | 4.92 | 97.2 |
| * HAVE NOT RECEIVED DATA AS OF 8 MAY 78. | | | | | | |

