

to Hooks



40-8903

FACSIMILE TRANSMITTAL FORM

URANIUM RECOVERY FIELD OFFICE
DENVER, COLORADO

Date: 1-11-94

To: Fred Craft
Name
505-287-9289
Fax Number

HMC
Bldg. Name or Region

Verification Number

2 Number of pages being sent (EXCLUDING THIS FORM)

From: Pete Garcia

U.S. Nuclear Regulatory Commission
Uranium Recovery Field Office
P.O. Box 25325
Denver, Colorado 80225

NRC
raw data
for IX
splits

Verification Number: FTS 8/303-231-5800/(303) 231-5800

Facsimile Number: FTS 8/303-231-5825/(303) 231-5825

Remarks:

NL05

1 day - CIPU

LL-17123 Page 1

Gak Ridge National Laboratory
Analytical Services Organisation
Results of Analysis
Low Level Radiochemical Analysis

Customer Name: KUNVINSKI
Request Number: LL17123
Project Number:
Date Received: 25-May-1993 14:11
Charge Number: 23000676
Dept Number: 2390
Date of Report: 19-AUG-93

Approved by: Na Zand
Date: 8/19/93

Customer ID: ACD Number: Date Sampled:
Sample Matrix: Frequency: Series:
Sample Description:

100% BACKGROUND 930525-079
SOIL

RA-226	URANIUM, TOT
20	200
4/- 21	4/- 10
EQ/KG	EQ/KG
EPA-903.0	2 31923

$Ra-226 = 28 \times 27 \div 1000 = 2.376 \text{ pCi/g}$
 $U-Nat = 200 \times 27 \div 1000 = 5.4 \text{ pCi/g}$

1X-NEW-1
SOIL

RA-226	URANIUM, TOT
20	2100
4/- 180	4/- 100
EQ/KG	EQ/KG
EPA-903.0	2 31923

$Ra-226 = 350 \text{ Bq/Kg} \times 27 \text{ pCi/Bq} = \frac{9450}{1000 \text{ g/Kg}} = 9.45 \text{ pCi/g}$
 $U-Nat = \frac{2100 \text{ Bq/Kg} \times 27 \text{ pCi/Bq}}{1000 \text{ g/Kg}} = \frac{56700}{1000} = 56.7 \text{ pCi/g}$

1X-NEW-2
SOIL

RA-226	URANIUM, TOT
20	89
4/- 11	4/- 9
EQ/KG	EQ/KG
EPA-903.0	2 31923

$Ra-226 = 29 \times 27 \div 1000 = .783 \text{ pCi/g}$
 $U-Nat = 69 \times 27 \div 1000 = 1.86 \text{ pCi/g}$

1X-OLD-8
SOIL

RA-226	URANIUM, TOT
10	150
4/- 6	4/- 10
EQ/KG	EQ/KG
EPA-903.0	2 31923

$Ra-226 = 16 \times 27 \div 1000 = 0.432 \text{ pCi/g}$
 $U-Nat = 190 \times 27 \div 1000 = 5.13 \text{ pCi/g}$

1X-PCND-4
SOIL

RA-226	URANIUM, TOT
55	72
4/- 12	4/- 6
EQ/KG	EQ/KG
EPA-903.0	2 31923

$Ra-226 = 35 \times 27 \div 1000 = 0.945 \text{ pCi/g}$
 $U-Nat = 73 \times 27 \div 1000 = 1.971 \text{ pCi/g}$

1 BQ = 27pG

Customer ID AGE Number Date Sampled
Sample Matrix Frequency Series
Material Description

930525-084

RA-225	URANIUM, TOT
270	120
+/- 50	+/- 10
BQ/KG	BQ/KG
EPA-903.0	12 31923

$Ra-226 = 270 \times 27 \div 1000 = 7.29 \text{ pCi/g}$

$U-Nat = 120 \times 27 \div 1000 = 3.24 \text{ pCi/g}$

930525-085

RA-225	URANIUM, TOT
1800	1400
+/- 300	+/- 100
BQ/KG	BQ/KG
EPA-903.0	12 31923

$Ra-226 = 1800 \times 27 \div 1000 = 48.60 \text{ pCi/g}$

$U-Nat = 1400 \times 27 \div 1000 = 37.80 \text{ pCi/g}$

930525-086

RA-225	URANIUM, TOT
1600	1700
+/- 200	+/- 100
BQ/KG	BQ/KG
EPA-903.0	12 31923

$Ra-226 = 1600 \times 27 \div 1000 = 43.2 \text{ pCi/g}$

$U-Nat = 1700 \times 27 \div 1000 = 45.9 \text{ pCi/g}$

930525-087

RA-225	URANIUM, TOT
2500	2000
+/- 500	+/- 100
BQ/KG	BQ/KG
EPA-903.0	12 31923

$Ra-226 = 2500 \times 27 \div 1000 = 67.5 \text{ pCi/g}$

$U-Nat = 2000 \times 27 \div 1000 = 54 \text{ pCi/g}$