NRC FORM 304
(8-1997)

U. S. NUCLEAR REGULATORY COMMISSION

SAMPLE RECORD SHEET

LABORATORY – ☒ REGION I ☐ REGION III

LABORATORY CONTROL NUMBER: 301932

ROUTINE / URGENT — DATE REQUIRED:

SAMPLE LOCATION: SECOR

DATE ANALYSIS BEGAN: | DATE COMPLETED:

ANALYZED BY: | DATE:

COLLECTED BY: J. WRIGHT | DIVISION: | TELEPHONE:

CONTACT NOTIFIED: | DATE:

APPROVED BY: JVL | DATE: 1-23-98

SAMPLE NO.	DATE	HOUR	DESCRIPTION	ANALYZE FOR	INSTRUMENT USED	QUANTITY USED grams	DATE COUNTED	COUNT TIME seconds	GROSS COUNT	BACK-GROUND	NET COUNT	Radio-nuclide	RESULT* pCi/g (dry wt.)
1	9/24	1200	SOIL #1	γ scan	#2	405.2	10/6	60,000				Ra-226	3.2±0.4
2	9/24	1030	SOIL #2	γ scan	#1	402.9	10/5	60,000				Ra-226	1.0±0.8
3	9/24	1032	SOIL #3	γ scan	#2	363.9	10/2	60,000				Ra-226	0.4±0.4
4	9/24	1050	SOIL #4	γ scan	#2	373.3	10/5	60,000				Ra-226	11.8±0.9
5	9/24	1100	SOIL #5	γ scan	#1	399.8	10/2	60,000				Ra-226	0.2±0.3
6	9/24	1110	SOIL #6	γ scan	#1	444.2	10/1	60,000				Ra-226	1.1±0.4
7	9/24	1020	WATER-FILTERED	γ scan	#1	250ml	10/8	60,000					0.12±0.12 pCi/ml

*Random uncertainties as reported: ☒ ±1 σ, ☐ ±2 σ. Small negative and other results ≤ 2 σ are interpreted as including "zero" or as not detected. If appropriate, estimates of possible systematic errors are reported in parentheses.

NRC FORM 304 (8-1997)

INSPECTION

8/33

NRC FORM 304
(8-1997)

U. S. NUCLEAR REGULATORY COMMISSION

SAMPLE RECORD SHEET

LABORATORY -- ☒ REGION I ☐ REGION III

LABORATORY CONTROL NUMBER: 301932

☒ ROUTINE ☐ URGENT

DATE REQUIRED:

SAMPLE LOCATION: SE COR.

DATE ANALYSIS BEGAN:

DATE COMPLETED: 10-9-97

ANALYZED BY:

DATE:

COLLECTED BY: J. WRAY

DIVISION: DNMS

TELEPHONE: 5268

CONTACT NOTIFIED:

DATE:

APPROVED BY: TMC

DATE: 10-9-97

SAMPLE NO.	DATE	HOUR	DESCRIPTION	ANALYZE FOR	INSTRUMENT USED	QUANTITY USED grams	DATE COUNTED	COUNT TIME seconds	GROSS COUNT	BACK-GROUND	NET COUNT	Radio-nuclide	RESULT* pCi/g (dry wt.)
1	9/24	1200	SOIL # 1	γ scan	#2	405.2	10/6	60,000				Pa-234m	51.2 ± 0.9
												U-235	2.34 ± 0.03
2	9/24	1030	SOIL # 2	γ scan	# 1	402.9	10/5	60,000				Pa-234m	93.6 ± 1.5
												U-235	4.20 ± 0.06
3	9/24	1032	SOIL # 3	γ scan	# 2	363.9	10/2	60,000				Pa-234m	13.2 ± 0.8
												U-235	0.58 ± 0.03
4	9/24	1050	SOIL # 4	γ scan	# 2	373.3	10/5	60,000				Pa-234m	317 ± 2
												U-235	9.78 ± 0.06
5	9/24	1100	SOIL # 5	γ scan	# 1	399.8	10/2	60,000				Pa-234m	5.6 ± 0.7
												U-235	0.25 ± 0.02
6	9/24	1110	SOIL # 6	γ scan	# 1	444.2	10/1	60,000				Pa-234m	13.0 ± 0.7
												U-235	0.54 ± 0.03

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* Random uncertainties as reported: ☒ ± 1 σ, ☐ ± 2 σ. Small negative and other results ≤ 2 σ are interpreted as including "zero" or as not detected. If appropriate, estimates of possible systematic errors are reported in parentheses.

INSPECTION

Region I FORM 303
(1-88)

U.S. NUCLEAR REGULATORY COMMISSION

REQUEST FOR ANALYSIS
Region I Laboratory

LABORATORY USE ONLY

CONTROL NUMBER 301932

SAMPLE LOCATION (LICENSEE)	LICENSE NO.	DOCKET NO.
SECOR [illegible]		

SAMPLES SUBMITTED

#(TOTAL)	TYPE	VOLUME	WEIGHT
1	[illegible]		
1	Soils		

DATE SAMPLES SUBMITTED	PRIORITY	
9/24/92	X	ROUTINE
		URGENT ***

SAMPLE COLLECTION INTERVAL

	MONTH	DAY	YEAR	TIME
START	9	24	92	1015
STOP	9	24	92	1115

INSPECTOR RESPONSIBLE

PHONE EXT.

	ANALYSIS TO BE PERFORMED	LIST DESIRED LLD *(Optional)*		OTHER TYPE OF ANALYSIS *(Specify)*	LIST DESIRED LLD *(Optional)*
	GROSS ALPHA				
	GROSS BETA				
X	GAMMA SPEC				
	TRITIUM				
	CARBON-14				
	IODINE-125				

REMARKS

*Please [illegible] as [illegible] to [illegible] for [illegible]

NOTE: Samples will be discarded after analysis unless reasons are noted above in Remarks.

*** **FOR URGENT USE ONLY**— Signature Blocks below must be filled out by the Inspector's appropriate Section Chief and by the Chief, Effluents Radiation Protection Section BEFORE submitting this form to the Region I Laboratory.

SIGNATURE – APPROPRIATE NUCLEAR MATERIALS SAFETY SECTION CHIEF | DATE

SIGNATURE – CHIEF, EFFLUENTS RADIATION PROTECTION SECTION | DATE

(yellow) 3. LOG

Tenneco

Soil SAMPLE	U^{238}	RA^{226}	RATIO
1	51.2	3.2	16 ~ 14
2	93.6	1.0	93.6
3	13.2	0.4	34
4	317	11.8	27 30
5	5.6	0.2	28
6	13.0	1.1	12 ~ 14

≈ 36

6) 214

18

34

Ratio NOT 1:1, with U^{238} being significantly higher. Therefore NOT natural Uranium. The limit for this processed U can be taken as Depleted Uranium Limit