

Docket 040-08027
License SUB-1010

December 7, 2012

Ms. Linda M. Gersey
U.S. Nuclear Regulatory Commission, Region IV
1600 East Lamar Boulevard
Arlington, TX 76011

SUBJECT: ORISE CONTRACT NO. DE-AC05-06OR23100
LETTER REPORT FOR ANALYTICAL RESULTS FOR SEVEN SOIL
SAMPLES ASSOCIATED WITH THE SEQUOYAH FUELS CORPORATION IN
GORE, OKLAHOMA
[INSPECTION REPORT NO. 04008027/2012003] (RFTA NO. 13-001)
DCN: 5206-LR-01-0

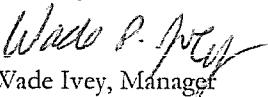
Dear Ms. Gersey:

Oak Ridge Associated Universities (ORAU), under the Oak Ridge Institute for Science and Education (ORISE) contract, received seven soil samples on November 14, 2012 from the Sequoyah Fuels Corporation in Gore, Oklahoma. The samples were analyzed for gamma emitting radionuclides by gamma spectroscopy. The samples were received with a NRC Form 303. The sample identification numbers are presented in Table 1 and the gamma spectroscopy data are presented in Table 2. The pertinent procedure reference is included with the data table.

ORAU's Quality Control (QC) requirements were met for these analyses. The QC files are available for your review upon request.

My contact information is listed below. You may also contact Forrest Smith at 865.574.9802 with any questions or comments.

Sincerely,


Wade Ivey, Manager
Laboratory
WPI:WFS:km

Enclosures

c: T. Carter, NRC/FSME/DWMEP T-8F5
S. Nesmith, NRC/FSME/PBPA/TWFFN 8A23

Electronic: S. Roberts, ORAU T. Vitkus, ORAU File 5206

Distribution approval and concurrence:	Initials
Technical Review	DAK
Quality Review	LB
Group Manager Review	WPI

TABLE 1

**SAMPLE IDENTIFICATIONS
AND COLLECTION DATA
SEQUOYAH FUELS CORPORATION
GORE, OKLAHOMA**

ORAU/ORISE Sample ID	NRC Sample ID	Collection Date	Collection Time
5206S0001	NRC-1	11/08/12	10:20
5206S0002	NRC-3	11/08/12	10:50
5206S0003	NRC-4	11/08/12	10:55
5206S0004	NRC-5	11/08/12	11:03
5206S0005	NRC-6	11/08/12	11:12
5206S0006	NRC-7	11/08/12	11:22
5206S0007	NRC-8	11/08/12	11:32

TABLE 2

**CONCENTRATIONS OF SELECTED GAMMA EMITTERS
IN SOIL SAMPLES
BY GAMMA SPECTROSCOPY
CP1, REVISION 17
SEQUOYAH FUELS CORPORATION
GORE, OKLAHOMA**

ORAU/ORISE Sample ID	NRC Sample ID	Radionuclide Concentrations, TPU ^a , and MDCs ^b (pCi/g)		
		U-238 by Th-234	U-235	Total U ^c
5206S0001	NRC-1	52.9 ± 3.5 , 1.3	2.42 ± 0.20 , 0.24	108.2 ± 7.0
5206S0002	NRC-3	10.42 ± 0.90 , 1.10	0.44 ± 0.10 , 0.20	21.3 ± 1.8
5206S0003	NRC-4	3.53 ± 0.52 , 0.96	0.12 ± 0.10 , 0.23	7.2 ± 1.0
5206S0004	NRC-5	5.07 ± 0.65 , 1.10	0.27 ± 0.10 , 0.22	10.4 ± 1.3
5206S0005	NRC-6	1.73 ± 0.38 , 0.79	0.11 ± 0.09 , 0.22	3.57 ± 0.77
5206S0006	NRC-7	17.3 ± 1.3 , 1.1	0.81 ± 0.12 , 0.20	35.4 ± 2.6
5206S0007	NRC-8	7.87 ± 0.75 , 1.10	0.43 ± 0.10 , 0.19	16.2 ± 1.5

^aUncertainties represent the 95% confidence level, based on total propagated uncertainties.

^bThe MDCs are after the comma.

^cTotal uranium is calculated using either U-238*2 + U-235 for natural uranium or U-238 + U-235 + U-235*(21.7) for enriched uranium.