

ORISE
OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

April 28, 2005

Mr. Gene Bonano
U.S. Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, IL 60532-4351

**SUBJECT: REVISION TO ANALYTICAL RESULTS FOR SOIL SAMPLES FROM THE JN-4
GROUNDS AT THE BATTELLE WEST JEFFERSON SITE, COLUMBUS, OHIO
[TAC NO. 070-00008/2005-001] (RFTA NO. 05-001)**

Dear Mr. Bonano:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received eleven soil samples on March 4, 2005 that were collected at the Battelle West Jefferson Site JN-4 Grounds in Columbus, Ohio between the dates of November 8, 2004 and February 23, 2005. The samples were analyzed by gamma spectroscopy for cesium-137, cobalt-60, the thorium series, and the uranium series (Procedure CP1, Revision 14). The gamma spectroscopy results are presented in Table 1.

This revision to the letter report of March 25, 2005, was made to address errors in the reported values. The errors were due to incorrect entry of uncertainties in the calibration certificate files. The certificate files have been updated and all efficiency files have been revised and verified. Gamma spectroscopy analysis was performed again for the samples using the corrected calibration files and the corrected data are presented in "REVISED ORISE TABLE 1". We have initiated a non-conformance report to address this issue. We apologize for any inconvenience it may have caused.

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

If you have any questions, please call me at (865) 241-3242 or Wade Ivey at (865) 576-9184.

Sincerely,

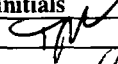



Dale Condra
Laboratory Manager
Environmental Survey and
Site Assessment Program

RDC:WPI:ar

Enclosure

cc: T. McLaughlin, NRC/NMSS/TWFN 7F27 E. Abelquist, ORISE/ESSAP File 1653
E. Knox-Davin, NRC/NMSS/TWFN T8A23 T. Vitkus, ORISE/ESSAP

Distribution approval and concurrence:	Initials
Technical Management Team Member	
Quality Manager	

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REVISED ORISE TABLE 1

CONCENTRATIONS OF SELECTED GAMMA EMITTING RADIONUCLIDES
 IN SOIL SAMPLES
 BY GAMMA SPECTROSCOPY
 CPI, REVISION 14
 BATTELLE JN-4
 COLUMBUS, OHIO

ESSAP Sample ID	NRC Region III Sample ID	Radionuclide Concentrations (pCi/g dry weight) ^a					
		Co-60	Cs-137	Th-228 by Pb-212	Th-232 by Ac-228	U-235	U-238 by Th-234
1653S0001	NRC-1	0.05 ± 0.06 ^b	0.23 ± 0.03	0.84 ± 0.07	1.05 ± 0.18	0.07 ± 0.12	1.70 ± 0.58
1653S0002	NRC-2	0.00 ^c ± 0.03	0.20 ± 0.04	0.82 ± 0.07	1.05 ± 0.19	0.16 ± 0.14	1.65 ± 0.58
1653S0003	NRC-3	0.00 ± 0.02	0.01 ± 0.02	0.26 ± 0.04	0.24 ± 0.08	0.08 ± 0.08	0.92 ± 0.34
1653S0004	NRC-4	0.01 ± 0.01	0.11 ± 0.02	0.24 ± 0.03	0.25 ± 0.09	0.08 ± 0.10	0.58 ± 0.42
1653S0005	NRC-5	0.00 ± 0.04	0.19 ± 0.05	0.98 ± 0.09	1.22 ± 0.22	0.21 ± 0.19	1.60 ± 0.85
1653S0006	NRC-6	-0.01 ± 0.02	0.00 ± 0.02	0.72 ± 0.06	0.79 ± 0.12	0.05 ± 0.07	0.76 ± 0.40
1653S0007	NRC-7	-0.01 ± 0.03	0.02 ± 0.03	0.55 ± 0.05	0.42 ± 0.13	0.08 ± 0.08	0.76 ± 0.47
1653S0008	NRC-8	0.01 ± 0.03	-0.01 ± 0.02	0.47 ± 0.05	0.56 ± 0.14	0.02 ± 0.08	1.08 ± 0.48
1653S0009	NRC-9	0.00 ± 0.02	0.04 ± 0.02	0.74 ± 0.06	0.82 ± 0.14	0.11 ± 0.10	1.24 ± 0.46
1653S0010	NRC-10	-0.03 ± 0.03	0.07 ± 0.03	0.87 ± 0.08	0.97 ± 0.18	0.12 ± 0.10	1.17 ± 0.61
1653S0011	NRC-11	0.01 ± 0.03	0.12 ± 0.05	0.86 ± 0.08	0.89 ± 0.22	0.05 ± 0.11	1.86 ± 0.58

^aThe average MDCs for a one hour count of soil in a 0.5L Marinelli for these data range from 0.03 pCi/g for Cs-137 to 0.54 pCi/g for U-238.

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

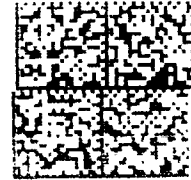
^cZero values are due to rounding.

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