

January 31, 2006

Ms. Laurie Kauffman
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

**SUBJECT: REPORT FOR ANALYSIS OF SAMPLES FROM ABB PROSPECTS,
WINDSOR, CONNECTICUT
[INSPECTION REPORT NO. 030-03754/2005-001] [RFTA NO. 06-001]**

Dear Ms. Kauffman:

The Oak Ridge Institute for Science and Education (ORISE) received 14 soil samples on December 6, 2005 from ABB Prospects in Windsor, Connecticut. The sample identifications and collection dates are in Table 1. The samples were analyzed by sample preparation (Procedure SP3, Revision 4) and gamma spectroscopy (GS) (Procedure CP1, Revision 15). The GS results are presented in Table 2.

ORISE's Quality Control (QC) requirements were met for this analysis. The QC files are available for your review upon request.

My contact information is listed below or you can contact Wade Ivey at 865.576.9184 should you have any questions.

Sincerely,



Dale Condra
Laboratory Manager

RDC:WPI:ar

Enclosures

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TABLE 1

**SAMPLE IDENTIFICATIONS
AND COLLECTION DATES
ABB PROSPECTS
WINDSOR, CONNECTICUT**

ORISE Sample ID	NRC Region I Sample ID	Collection Date
1669S0001	B17-0504-105	04/26/05
1669S0002	B17-0505-17	05/11/05
1669S0003	B17-0505-30	05/11/05
1669S0004	B17-0505-38	05/11/05
1669S0005	B5-0502-17	02/28/05
1669S0006	B5-0504-07	04/01/05
1669S0007	B5-0504-126	04/27/05
1669S0008	B5-0504-13	04/01/05
1669S0009	B5-0504-35	04/04/05
1669S0010	B5-0504-72	04/21/05
1669S0011	B5-0504-84	04/21/05
1669S0012	MAC-0510-46	10/20/05
1669S0013	MAC-0510-58	10/20/05
1669S0014	MAC-0510-73	10/20/05

TABLE 2

CONCENTRATIONS OF SELECTED
GAMMA EMITTING RADIONUCLIDES
IN SOIL SAMPLES

BY SAMPLE PREPARATION SP3, REVISION 4 AND
GAMMA SPECTROSCOPY CP1, REVISION 15
ABB PROSPECTS
WINDSOR, CONNECTICUT

ORISE Sample ID	NRC Region I Sample ID	Radionuclide Concentrations ^a (pCi/g)			
		Co-60	Cs-137	U-238 by Th-234	U-235
1669S0001	B17-0504-105	-0.02 ± 0.03 ^b	0.00 ^c ± 0.02	1.36 ± 0.63	0.11 ± 0.14
1669S0002	B17-0505-17	0.00 ± 0.02	0.01 ± 0.02	0.91 ± 0.37	0.04 ± 0.07
1669S0003	B17-0505-30	-0.02 ± 0.03	-0.02 ± 0.04	0.91 ± 0.44	0.12 ± 0.11
1669S0004	B17-0505-38	0.01 ± 0.03	0.00 ± 0.02	1.63 ± 0.59	0.17 ± 0.10
1669S0005	B5-0502-17	0.01 ± 0.02	-0.01 ± 0.02	0.89 ± 0.42	0.06 ± 0.07
1669S0006	B5-0504-07	0.00 ± 0.02	0.00 ± 0.01	0.62 ± 0.31	0.02 ± 0.06
1669S0007	B5-0504-126	0.01 ± 0.03	0.05 ± 0.03	0.53 ± 0.41	-0.04 ± 0.07
1669S0008	B5-0504-13	-0.02 ± 0.03	0.00 ± 0.03	0.69 ± 0.38	0.09 ± 0.08
1669S0009	B5-0504-35	0.00 ± 0.01	0.00 ± 0.01	0.39 ± 0.20	0.04 ± 0.04
1669S0010	B5-0504-72	0.05 ± 0.03	0.00 ± 0.02	1.28 ± 0.64	0.26 ± 0.15
1669S0011	B5-0504-84	-0.01 ± 0.03	-0.01 ± 0.02	0.58 ± 0.46	0.03 ± 0.08
1669S0012	MAC-0510-46	0.01 ± 0.02	-0.01 ± 0.02	6.61 ± 0.63	0.99 ± 0.19
1669S0013	MAC-0510-58	0.03 ± 0.03	0.00 ± 0.02	1.06 ± 0.62	0.05 ± 0.10
1669S0014	MAC-0510-73	-0.02 ± 0.02	-0.01 ± 0.02	0.75 ± 0.47	0.07 ± 0.11

^aThe range of the MDCs for the selected radionuclides is 0.01 pCi/g to 0.69 pCi/g.

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

^cZero values are due to rounding.