May 28, 1982

NOTE: C. L. Yarbro, Jr.
Energy Research and Technical Services Branch
Energy Programs and Support Division, ORO

RASCA - Soil Samples - Bayside, New York

Submitted as per your request are the results of analysis of four soil samples from the former Sylvania Corning site, Bayside, New York. All samples were analyzed for ^{238}U content by neutron activation techniques and one sample, GTE-12, was analyzed for ^{226}Ra and ^{232}Th by GeLi gamma spectrometry. The results of these detailed analyses are as follows:

Sample Designation		Radionuclide Concentration, pCi/g		
ORNL	EML	^{238}U	^{226}Ra	^{232}Th
GTE-10	Bldg. 11, East	0.7	PA*	PA
GTE-11	Bldg. 11, North	0.6	PA	PA
GTE-12	Bldg. 14, East	0.6	0.3	0.5
GTE-13	Bldg. 14, North	0.6	PA	PA

*PA - Preliminary analyses only

In addition to the detailed analyses (results given above), all samples were given a preliminary analyses for ^{226}Ra and ^{232}Th by counting in a NaI well detector.

Based on the results of the preliminary analyses, all samples have ^{226}Ra and ^{232}Th concentrations in the range of background values, i.e. $\sim$1 pCi/g. The preliminary results for ^{226}Ra and ^{232}Th on samples GTE-10, GTE-11, and GTE-13 will be confirmed by GeLi gamma spectrometry as counter time becomes available, if you so desire.

If you have questions about this matter, please give me a call.

W. A. Goldsmith, Ph.D.
RASCA Program Manager, ORNL

WAG:WDC:ror

cc: W. D. Cottrell
P. S. Rohwer

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