

ARGONNE NATIONAL LABORATORY

9700 SOUTH CASS AVENUE, ARGONNE, ILLINOIS 60439

Telephone 312/972-

September 2, 1982

Ms. Nora Nicholson
U. S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Ms. Nicholson:

Analysis of the five water samples, NRC-82-355 to NRC-82-359, for total alpha, total beta, and gamma-ray spectrometry has been completed. The results are given below:

Sample Number	Alpha	Concentrations in (pCi/l)	
		Beta	^{228}Th - ^{228}Ac - ^{228}Ra
NRC-82-355	275 ± 3	120 ± 4	49 ± 2
NRC-82-356	14 ± 1	23 ± 1	< 10
NRC-82-357	70 ± 1	47 ± 2	10 ± 1
NRC-82-358	108 ± 3	78 ± 1	10 ± 1
NRC-82-359	15 ± 1	16 ± 1	< 10

If you have any questions, please call.

Sincerely yours,

Norbert Golchert

Norbert W. Golchert
Occupational Health Safety

NWG:reb

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