

HERITAGE MINERALS, INC.

interoffice memorandum

To John F. Lord Date May 9, 1989

From Max M. El Tawil

Subject Analysis of Ground Water for Radioactivity

Copies To

As requested during the Manchester Township meeting of March 23, 1989, four ground water samples were analyzed for gross alpha radiation counts. These measurements are used to detect the presence of radioactive contamination in the ground water. The analyses were performed by Teledyne Isotope Laboratories of Westwood, New Jersey which is a state-certified laboratory with a great deal of experience and credibility in this field. The following is a summary of the results:

<u>Sample Description</u>	<u>Gross Alpha (Pci/l)</u>
Plant Upstream	less than 1
Shallow Well	less than 1
Deep Well	less than 1
Plant Downstream	1.1

It should be noted that the state guidelines for safe drinking water call for an activity limit of 15 pci/l.

These results show clearly that no radioactive contamination of ground water occurs as a result of the operations at Heritage Minerals' plant.



Max M. El Tawil, PhD
Consulting Engineer

MET:ljc

cc: R. Schott, NJDEP
J. Eng, NJDEP
L.A. Pollitt, ASARCO
R. Rizzolo, Manchester
H. Van Sciver, NJDEP
L. Friedman, USNRC

Peter Taylor, NJDEP
M. Zdepski, ASARCO
Bruce Cranmer, Manchester Twp.
F. Magee, OC Health Dept.
Al Larson, FR&A

B-18