



State of New Jersey

Department of Environmental Protection

James E. McGreevey
Governor

Bradley M. Campbell
Commissioner

January 22, 2004

Marie Miller, Senior Health Physicist
United States Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

SMB-743
04007102

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RECEIVED
REGION 1

Re: Ground Water Data
Shieldalloy Metallurgical Corporation
Newfield Borough, Gloucester County, New Jersey

Dear Ms. Miller:

Pursuant to our conversation on January 15, 2004, enclosed please find summary tables of ground water data collected from the Shieldalloy Metallurgical Corporation (SMC) site. The tables contain quarterly data from collected between 1989 and 1992 for the following radioactive parameters: gross alpha, gross alpha, Ra-226, Th-228, Th-230, Th-232, U-234, U-235, and U-238. The sampling and analysis is required in the October 5, 1988 Administrative Consent Order between SMC and the New Jersey Department of Environmental Protection.

Originally presented in quarterly reports submitted by SMC, I tabulated the data in 1994 using Quattro-Pro software. The formatting errors in the printed copies are due to the conversion to Microsoft Excel which is now in use. At your request, I emailed the tables to you on January 21, 2004 in their original format. If you would copies of the complete quarterly reports please let me know.

If you have any questions regarding this letter, please contact me at (609) 633-1494.

Sincerely,

Donna L. Gaffigan, Case Manager
Bureau of Case Management

Enclosure: 9 Data tables

C: Nancy Stanley, BER
Kenneth Kalman, USNRC

Gross Alpha (pCi/l)

| DATE | A | SC11S | SC11S(R) | SC12S |
|------|---------|--------------|----------|---------------|
| 4Q88 | | | . | |
| 1Q89 | <2/<2 | 4+2.6/<2 | . | <3;<3/4.5+2 |
| 2Q89 | <2/<2 | ?/<1;5.5+1.3 | . | 4.4+1.4/4+1.6 |
| 3Q89 | <5/<4 | 5.4+3.7/<5 | . | <9/<5 |
| 4Q89 | <3/<3 | ?/? | . | <9/<9 |
| 1Q90 | <2/<4 | <5/<3 | . | <7/<6 |
| 2Q90 | <2/<2 | 2.1+1/<0.9 | . | 10+7/<9 |
| 3Q90 | <5/<5 | <3/<2 | . | <10/<10 |
| 4Q90 | <3/<3 | <2/<2 | . | 76+8/27+4 |
| 1Q91 | | | . | |
| 2Q91 | <7/<5 | <3/<3 | . | <9/<8 |
| 3Q91 | 8.6+4.3 | 0.64+1.18 | . | 8.9+5.1 |
| 4Q91 | <3;<3 | <2 | . | <4 |
| 1Q92 | <9 | . | . | <20 |
| 2Q92 | <9 | . | . | <10 |
| 3Q92 | <6 | . | <3 | <5;<5 |
| 4Q92 | | . | | |
| 1Q93 | | . | | |
| 2Q93 | | . | | |
| 3Q93 | | . | | |

"." not analyzed

duplicate sample

";" duplicate sample

cored sample

"/" unfiltered sample / Filtered Sample

SDWA MCLs: Gross alpha 15 pCi/l (detection limit 3 pCi/l) including Ra226, excluding Rn and U
 Ra226 + Ra228 5 pCi/l (detection limit 1 pCi/l)