



**U.S. Department of Energy**

Grand Junction Office  
2597 B ¾ Road  
Grand Junction, CO 81503  
July 16, 2003

Ms. Susan Frant, Chief  
Fuel Cycle Facilities Branch, NMSS  
U.S. Nuclear Regulatory Commission  
Mail Stop T8A33  
Washington, D.C. 20555-0001

Subject: Transmittal of the Update for 2003 to the *Verification Monitoring Report for the Riverton, Wyoming, UMTRA Project Site - WM-60*

Dear Ms. Frant:

Enclosed is a copy of the Update for 2003 to the *Verification Monitoring Report for the Riverton, Wyoming, UMTRA Project Site (GJO-2001-255-TAR, issued in September 2001)*. This update is based on results of the annual ground water and surface water sampling event performed during May 2003.

Analytical results from the 2003 sampling event indicate that concentrations of molybdenum in ground water in the shallow unconfined aquifer are decreasing as predicted, but concentrations of uranium have increased slightly in the centroid of the plume. This variation is expected because of the complexities of the alluvial system. The overall indication is that natural flushing is still occurring in the surficial aquifer. In addition to the routine sampling, fish were caught in the Oxbow Lake for tissue analysis for uranium and molybdenum, and more surface water sampling locations were added along the west side of the Oxbow Lake in conjunction with the fish collection effort. Updated figures, along with analytical results from this sampling event, are included in this report.

If you have any questions, please call me at 970/248-7612.

Sincerely,

A handwritten signature in black ink, appearing to read "Donald R. Metzler", is written over the typed name.

Donald R. Metzler  
Program Manager

Enclosure

cc w/enclosure:

D. Aragon, WREQC

J. Erickson, WYDEQ

Riverton Branch Library

cc w/o enclosure:

R. Von Till, NRC

R. Heydenburg, Stoller

S. Marutzky, Stoller

Project File GWGRN 2.0 (Thru S. Morris)

DRMRivertonVerifMonRpt