

Rio Algom Mining LLC

AD-8905

May 20, 2011

Certified Mail (7010 1870 0000 3699 1086)

Mr. Tom McLaughlin
United States Nuclear Regulatory Commission
Mail Stop T-8F5
Washington, DC 28555

Subject: MW 36-06 KD and MW 31-02 TRA Gross Alpha Results – 1st Qtr 2011
RIO ALGOM MINING LLC, AMBROSIA LAKE FACILITY
Material License Number SUA-1473

Dear Mr. McLaughlin:

This letter represents the 1st Quarter 2011 report on the gross alpha analytical results for ACL monitor wells 36-06 KD and 31-02 TRA. Sampling is performed according to the requirements of License Condition 34 of SUA-1473.

Monthly sampling with quarterly reporting is being conducted because gross alpha results obtained during the November 2010 sampling event exceeded the Ground Water Protection Standards (GWPS) set for these two wells.

Monitor Well 36-06 KD is in the Dakota Formation with a GWPS value of 56 pCi/L gross alpha. The gross alpha value obtained in November 2010 was 68.4 pCi/L.

Monitor Well 31-02 TRB is in the Tres Hermonos B Formation with a GWPS value of 21 pCi/L gross alpha. The gross alpha value obtained in November 2010 was 40.8 pCi/L.

The results for the first quarter of 2011 are show in the table below.

Sample Date	31-02 TRB Gross Alpha pCi/L (Corr.)	36-06 KD Gross Alpha pCi/L (Corr.)
(GWPS Limit)	21	56
01/20/11	40.8	-13.9
02/11/11	102	166
03/09/11	-97.3	23.4

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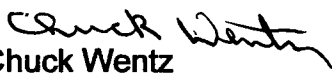
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The table shows that the gross alpha results are not consistent and do not represent a trend. Rio Algom Mining LLC has discussed this issue with the laboratory providing the analysis. A procedural requirement modification was made which should correct this situation.

Rio Algom Mining will continue to sample gross alpha in MWs 36-06KD and 31-02TRA on a monthly basis during the second quarter of 2011.

If you have comments or questions please contact me at 505-287-8851 ext 15.

Sincerely,


Chuck Wentz
Environmental Department Supervisor/RSO
Rio Algom Mining LLC
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cc: Document Control