



Rio Algom

Quivira Mining Company
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New Mexico 87020

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October 1, 2001

Certified Mail
Return Receipt (7099 3400 0014 5548 6494)

Mr. Melvyn Leach, Chief
Fuel Cycle Licensing Branch, NMSS
Mail Stop T-8-A-33
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20850

Re: **License SUA-1473**
Docket No. 40-8905
Semiannual Effluent Report – 1st Half 2001 – Supplemental Report

Dear Mr. Leach,

In accordance with license condition #19 of the above referenced source material license and the NRC approved *Health Physics and Environmental Programs Manual*, please find attached the first half 2001 Semiannual Report for the Ambrosia Lake facility. This supplemental report was necessary due to Quivira not receiving complete analytical results for the vegetation sampling program by the time of initial report submission.

If you have any questions or need additional information, please do not hesitate to call me at (505) 287-8851, extension 205.

Regards,

Peter Luthiger
Supervisor, Radiation Safety
and Environmental Affairs

Attachment

xc: T. Fletcher
P. Goranson
NRC (TX)
file

NMSS01 Public



QUIVIRA MINING COMPANY
Ambrosia Lake Facility

License SUA-1473 Docket No. 40-8905

EFFLUENT
REPORT
1st HALF 2001

SUPPLEMENTAL REPORT

October 1, 2001

Vegetation

Location: Substation Date: June 2001 Sample Media: Vegetation				Location: Mill Diversion Date: June 2001 Sample Media: Vegetation			
Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)	Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)
U-nat	6.1E-05	7.9E-06	6.8E-06	U-nat	6.2E-04	8.0E-05	6.8E-06
Th-230	< 1.7E-04	1.3E-03	2.1E-03	Th-230	3.6E-03	2.2E-03	2.7E-03
Ra-226	2.5E-04	7.0E-04	2.3E-03	Ra-226	2.6E-03	1.0E-03	2.2E-03
Pb-210	1.1E-01	2.0E-02	8.3E-02	Pb-210	5.1E-02	1.5E-02	7.3E-02

Location: Section 30 West VH6 Date: June 2001 Sample Media: Vegetation				Location: North Fence Date: June 2001 Sample Media: . Vegetation			
Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)	Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)
U-nat	7.7E-04	1.0E-04	6.8E-06	U-nat	4.7E-05	6.1E-06	6.8E-06
Th-230	5.0E-04	1.0E-03	1.4E-03	Th-230	1.8E-01	1.0E-02	3.0E-03
Ra-226	1.2E-03	8.0E-04	2.2E-03	Ra-226	2.6E-03	1.0E-03	2.3E-03
Pb-210	1.6E-02	2.5E-02	8.4E-02	Pb-210	1.3E-02	9.9E-03	3.2E-02

Quivira Mining Company
Ambrosia Lake Facility

License SUA-1473
Docket Number 40-8905

Vegetation

Location: Section 17 VH 4
Date: June 2001
Sample Media: Vegetation

Nuclide	Conc. (uCi/kg)	Error (uCi/kg)	LLD (uCi/kg)
U-nat	3.4E-05	4.4E-06	6.8E-06
Th-230	6.6E-03	2.2E-03	2.3E-03
Ra-226	3.5E-04	6.0E-04	2.1E-03
Pb-210	0.0E+00	6.2E-03	2.2E-02