

40-8905

QUIVIRA MINING COMPANY

POST OFFICE BOX 218 • GRANTS, NEW MEXICO 87020

February 1, 1997

Certified Mail

Return Receipt Requested (P 268 360 591)

Mr. Richard Ohrbom
Groundwater Section
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

Re: Discharge Plan - 169
2nd Half 1996

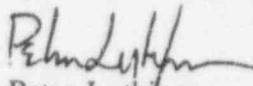
Dear Mr. Ohrbom,

Pursuant to Discharge Plan - 169, approved on November 15, 1995, attached is the semi-annual groundwater monitoring report for the Ambrosia Lake mill facility for the period covering the 2nd half of 1996.

If you have any questions or need additional information, please call me at 287-8851.

Regards,

QUIVIRA MINING COMPANY



Peter Luthiger
Supervisor, Radiation Safety
and Environmental Affairs

Attachments: As stated

xc: T. Fletcher
M. Freeman
J. Holonich (NRC-MD)
NRC (Arlington)
file

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PDR ADOCK 04008905
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HYDROLOGICAL MONITORING REPORT
AMBROSIA LAKE, N.M.

ALLUVIAL WELLS
2nd Half, 1996

Well ID	Date	Depth To Water (ft)	Total Depth (ft)	Spec. Cond.	Temp. (c)	pH	SO4 (mg/L)	Cl (mg/L)	NO3 (mg/L)
=====									
+ 30-03	03-Jul-96	19.8	19.9						
+ 30-03	07-Aug-96	19.6	19.9						
+ 30-03	09-Sep-96	19.4	19.9						
+ 30-03	22-Oct-96	19.0	19.9						
+ 30-03	12-Nov-96	19.0	19.9						
+ 30-03	12-Dec-96	19.0	19.9						
30-04	09-Sep-96	33.2	87.5	5500	10.8	9.4	2330	1570	<0.1
* 30-46	11-Sep-96		38.6						
30-47	09-Sep-96	25.0	79.8	2900	12.0	7.2	2080	499	0.6
30-48	09-Sep-96	28.6	80.0	2000	12.2	9.5	1370	176	<0.1
30-49	09-Sep-96	44.0	69.2	3025	12.5	7.4	2060	336	0.3
* 30-53	11-Sep-96		50.5						
* 30-68	11-Sep-96		62.7						
31-05	11-Sep-96	30.4	79.2	8100	11.8	9.6	4350	1950	<0.1
31-61	20-Aug-96	18.8	27.1	5500	13.0	6.9	4000	535	1.0
31-63	12-Sep-96	19.9	30.1	9800	14.3	5.6	7130	2630	0.8
31-65	12-Sep-96	16.8	46.2	7700	11.3	7.1	4580	1570	11.0
31-70	12-Sep-96	16.6	34.8	9000	11.8	6.8	5740	1680	2.1
31-71	12-Sep-96	13.8	65.3	3120	12.5	7.4	1980	415	3.4
32-01	10-Sep-96	16.6	52.8	3775	11.7	9.8	1730	818	0.2
32-02	10-Sep-96	28.9	77.8	6800	13.5	9.2	3730	1140	0.1
32-41	10-Sep-96	20.3	58.8	3575	11.9	7.4	2790	431	0.3
32-42	10-Sep-96	22.3	29.4	3000	12.1	7.8	1780	349	0.1
32-43	10-Sep-96	16.5	55.8	5800	13.7	7.9	3000	631	210.0
32-50	10-Sep-96	34.0	93.4	3400	12.7	7.6	2440	353	0.3
32-51	10-Sep-96	24.0	76.8	3850	12.2	8.0	3200	179	9.7
32-52	10-Sep-96	24.1	66.9	2650	12.5	8.5	2080	167	<0.1
* 32-56	11-Sep-96		57.8						
32-57	10-Sep-96	36.2	54.7	6000	12.7	7.6	4650	200	0.3
32-58	10-Sep-96	7.2	34.4	5025	14.7	6.9	1760	1150	1.0
32-59	11-Sep-96	8.1	39.4	3400	14.0	7.1	1890	403	3.2
32-60	12-Sep-96	17.5	24.8	5200	14.2	7.2	4080	673	11.9
32-69	10-Sep-96	22.4	67.2	2900	13.0	7.8	1350	507	0.3
32-72	12-Sep-96	7.8	40.1	3700	15.5	7.2	1900	533	0.1
5-01	10-Sep-96	16.8	45.3	3175	13.3	8.4	2230	374	<0.1
5-02	10-Sep-96	14.9	35.0	6200	13.3	7.6	2140	1940	0.9
5-03	20-Aug-96	9.3	45.7	2500	13.8	8.7	1250	457	0.2
5-04	10-Sep-96	3.3	65.4	3625	17.7	7.4	2180	461	<0.1
5-08	10-Sep-96	21.9	85.3	2400	13.0	9.4	1490	340	<0.1
5-73	10-Sep-96	6.0	31.6	3375	11.7	7.6	1710	342	<0.1
AW-1	10-Sep-96	33.3	81.2	3900	12.8	7.9	1990	597	5.3
AW-2	10-Sep-96	25.8	85.6	3000	12.8	7.7	2160	225	0.9
* C-3	11-Sep-96		12.3						
D-4	12-Sep-96	21.5	23.0	10300	11.8	6.4	39	5050	6.0
E-5	12-Sep-96	13.0	16.3	10800	14.5	7.0	7020	2400	1.0
+ MW-24	11-Sep-96	49.4	50.3						
S-12	12-Sep-96	14.6	26.8	8000	12.0	6.7	4980	1470	<0.1
S-9	12-Sep-96	9.5	23.8	9800	14.5	7.4	5150	2430	0.3

"*" - DRY WELL, "+" - INSUFF. H2O FOR SAMPLE COLLECTION