

# Rio Algom Mining LLC

February 7, 2012

CERTIFIED MAIL (7010 1870 0000 3702 9429)

Mr. David L. Mayerson  
New Mexico Environment Department  
1190 St Francis Dr.  
P.O. Box 5469  
Santa Fe, NM 87502

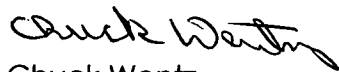
Re: **Discharge Plan - 169**  
**2nd Half 2011 Report**

Dear Mr. Mayerson:

Please find attached Rio Algom Mining LLC's groundwater monitoring report for the 2nd half of 2011 for the above referenced discharge permit. This permit requires the monitoring and reporting of well data for the alluvium in the vicinity of the tailings area. A CD copy of the analytical results is included under cover of this letter (NMED copy only).

If you have any questions or need additional information, please call me at 505-287-8851, ext 15.

Regards,



Chuck Wentz  
Environmental Department Supervisor/RSO

Attachment: As stated

cc: NRC (MD) – License SUA-1473, Docket No. 40-8905  
K. Black  
D. Murray

FSME20

**RIO ALGOM MINING LLC**  
**DISCHARGE PLAN DP-169 - - - 2nd HALF 2011 ANALYTICAL RESULTS**

Monitor Well	Date	Depth to Water	Total Depth	Specific Cond.	Temp. (C)	pH	Chloride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)
30-03	11-Jul-11	Dry	17.84							
30-04	11-Jul-11	Bad Casing	22.06							
30-46	12-Jul-11	Dry	38.26							
30-47	12-Jul-11	47.47	77.78	4940	13.5	8.81	690	0.18	2100	4530
30-48	12-Jul-11	50.34	73.27	4680	13.7	7.24	800	0.09	1700	4160
30-49	12-Jul-11	59.59	67.54	5400	14.1	6.87	770	0.2	2300	5100
30-53	12-Jul-11	Dry	49.84							
30-68	12-Jul-11	Dry	63.19							
31-05	12-Jul-11	43.43	63.81	7990	13.0	8.02	50	<0.02	180	480
31-61	15-Nov-11	14.13	29.25	12430	13.1	6.30	2500	1.7	5900	12900
31-61	13-Sep-11	13.86	29.25	14250	14.1	6.24	2370	2.71	6200	14200
31-65	14-Nov-11	16.19	46.00	11670	12.1	6.33	2300	0.02	5500	13000
31-65	13-Sep-11	15.81	46.01	13000	12.8	6.24	2210	0.09	5800	13500
31-70	12-Jul-11	27.83	31.15	7890	14.5	6.74	650	10.8	3800	7700
31-71	12-Jul-11	41.78	62.95	5240	15.2	7.07	590	0.57	2300	4920
32-01	11-Jul-11	Bad Casing								
32-02	11-Jul-11	Bad Casing								
32-41	12-Jul-11	34.13	60.30	4470	12.8	8.41	1010	<0.02	970	3150
32-42	12-Jul-11	Dry	21.72							
32-43N	12-Jul-11	22.88	76.16	9680	13.4	6.92	1760	4.25	2700	8530
32-51	12-Jul-11	31.76	74.34	5370	12.9	7.58	390	9.7	2700	5190
32-52	12-Jul-11	31.13	66.20	3370	12.8	8.70	240	<0.02	1460	2630
32-56	12-Jul-11	Dry	57.20							
32-57	12-Jul-11	43.81	53.18	6090	14.3	7.14	480	16.2	2800	5170
32-58	11-Jul-11	15.09	34.26	10250	13.2	6.63	2470		1900	8630
32-59	15-Nov-11	18.54	28.02	4910	12.0	7.23	610	0.36	2200	4590
32-59	13-Sep-11	18.28	28.02	5400	13.3	7.03	590	0.38	2600	4770
32-60	11-Jul-11	13.02	27.46	10950	15.1	6.50	1590	2.65	4100	10200
32-69	12-Jul-11	37.28	78.23	5560	12.6	8.23	750	0.8	2130	4880
32-72	11-Jul-11	18.21	39.90	6310	14.2	6.99	840	4.6	2500	5610
5-01	11-Jul-11	26.41	44.18	4110	14.6	8.85	250	0.72	2200	3850
5-02	11-Jul-11	24.56	38.20	3810	14.3	7.98	790	2.29	270	2320
5-03	15-Nov-11	24.75	41.45	4070	12.2	7.21	500	<0.02	1820	3300
5-03	13-Sep-11	24.37	41.45	4580	13.0	8.46	500	0.02	1850	3640
5-04	15-Nov-11	21.13	63.91	5040	12.9	6.87	810	0.06	2700	4790
5-04	13-Sep-11	20.99	63.95	5600	13.1	7.28	780	0.03	2800	4930
5-08	15-Nov-11	30.68	87.15	3720	11.7	6.44	430	0.11	1800	3340
5-08	13-Sep-11	30.61	87.15	4030	14.2	6.56	440	0.09	1810	3420
5-73	15-Nov-11	16.84	31.38	6190	12.2	7.17	1740	0.48	1700	5040
5-73	13-Sep-11	16.76	31.41	7070	12.6	7.01	1760	0.57	1700	5270
AW-1	11-Jul-11	51.83	81.10	6490	14.4	6.77	650	8.07	3200	6370
AW-2	12-Jul-11	32.96	85.70	5250	13.2	7.88	290	3.9	2800	5140
S-12	11-Jul-11	12.42	27.76	12450	14.4	6.61	2400		4200	11200
S-9	11-Jul-11	9.43	24.49	11750	14.3	8.09	2400	<0.02	3900	10900
MW-24	30-Oct-06	Dry	50.11							
MW-24	22-Aug-06	Dry	50.10							

Note: Rio Algom Mining LLC currently has a work plan to replace monitor wells with compromised casings.