

Rio Algom Mining LLC

August 4, 2010

CERTIFIED MAIL (7009 0960 0000 8421 3009)

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

Re: **Discharge Plan - 169**
1st Half 2010 Report

Dear Mr. Shore:

Please find attached Rio Algom Mining LLC's groundwater monitoring report for the 1st half of 2010 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.

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

xc: NRC (MD) – License SUA-1473, Docket No. 40-8905
K. Black
File

NMSSD/
NMSS

RIO ALGOM MINING LLC
DISCHARGE PLAN DP-169 - - - 1ST HALF 2010 ANALYTICAL RESULTS

Monitor	Depth To	Total	Specific	Temp.		Chloride	Nitrate	Sulfate	TDS	
<u>Well</u>	<u>Date</u>	<u>Water</u>	<u>Depth</u>	<u>Cond.</u>	<u>(C)</u>	<u>pH</u>	<u>(mg/l)</u>	<u>(mg/l)</u>	<u>(mg/l)</u>	<u>(mg/l)</u>
30-03	26-Jan-10	Dry	17.87							
30-04	26-Jan-10	Dry	22.56							
30-46	26-Jan-10	Dry	38.23							
30-47	25-Jan-10	39.51	77.81	4730	10.0	6.22	670	-0.02	1810	3780
30-48	25-Jan-10	47.85	73.27	4690	11.1	6.17	810	-0.02	1850	3920
30-49	25-Jan-10	57.06	67.61	5450	12.2	7.05	690	0.19	2250	4540
30-53	26-Jan-10	Dry	49.86							
30-68	26-Jan-10	Dry	63.17							
31-05	26-Jan-10	40.49	63.81	6020	11.5	7.20	540	-0.02	3100	5350
31-61	09-Mar-10	13.16	29.38	12980	12.6	6.47	2430	4.17	6000	13000
31-61	04-May-10	13.46	29.35	12380	12.7	6.54	2300	5	4700	13400
31-65	09-Mar-10	14.95	46.04	10830	12.0	6.55	1730	1.41	4700	10800
31-65	04-May-10	15.27	46.00	10590	12.9	6.53	1680	0.99	4400	11400
31-70	26-Jan-10	26.63	31.20	7270	12.0	6.61	500	9.0	3100	6480
31-71	25-Jan-10	36.35	62.98	5430	12.3	7.44	610	6.79	2480	4770
32-01	26-Jan-10	13.63	51.71	2470	11.1	7.12	120	0.59	1290	2120
32-02 #	25-Jan-10	44.70	52.96	1705	11.5	7.11	221	-0.02	770	1460
32-41	26-Jan-10	34.81	60.36	5210	11.6	8.19	1110	-0.02	1380	3500
32-42	26-Jan-10	Dry	21.73							
32-43N	19-Jan-10	20.98	76.16	9240	12.3	6.82	1570	6.5	3190	8130
32-51	18-Jan-10	29.92	74.65	5460	11.8	7.44	360	16.3	2970	5120
32-52	18-Jan-10	29.79	66.20	3410	11.9	8.89	240	0.14	1310	2430
32-56	18-Jan-10	Dry	57.22							
32-57	18-Jan-10	42.35	53.18	6230	12.2	7.03	460	11.9	3050	5380
32-58	18-Jan-10	13.26	34.32	7780	11.0	6.73	1760	15.5	1800	6300
32-59	09-Mar-10	16.11	27.90	4960	11.5	7.31	590	0.03	2100	4080
32-59	04-May-10	16.51	27.95	4910	14.0	7.35	580	0.04	2000	4200
32-60	19-Jan-10	12.03	27.44	10540	12.4	6.62	1550	2.96	4600	9950
32-69	19-Jan-10	47.04	78.23	4970	11.1	7.21	570	1.22	2070	4120
32-72	19-Jan-10	16.57	39.99	6470	12.5	6.93	840	6.41	2770	5530
5-01	18-Jan-10	24.77	44.31	4410	12.3	9.09	330	0.06	2400	3880
5-02	18-Jan-10	22.18	38.20	1816	11.7	7.76	370	0.14	40	880
5-03	09-Mar-10	22.01	41.39	4400	12.0	7.42	500	0.03	1900	3490
5-03	04-May-10	22.51	41.50	4360	13.8	6.78	480	-0.02	1760	3500
5-04	09-Mar-10	19.21	64.11	5090	12.1	6.81	680	-0.02	2500	4550
5-04	04-May-10	19.41	64.11	5660	13.2	7.08	1100	0.26	1750	4530
5-08	09-Mar-10	29.28	87.32	4090	12.4	6.59	480	0.02	1900	3420
5-08	04-May-10	29.27	87.32	4170	14.0	6.52	460	0.02	1820	3460
5-73	04-May-10	14.52	31.42	5870	12.1	7.06	710	0.07	2700	5090
AW-1	25-Jan-10	48.88	81.10	5740	11.8	6.95	620	2.45	2900	5280
AW-2	19-Jan-10	31.42	85.45	5190	12.3	7.41	290	1.79	2710	4840
MW-24	09-Mar-10	Dry	50.13							
MW-24	04-May-10	Dry	50.14							
S-12	19-Jan-10	11.37	27.82	10630	12.4	7.06	1650	0.07	4250	9720
S-9	19-Jan-10	10.10	24.57	11210	11.7	8.78	2350	0.08	3960	10200

As reported to NMED on July 8, 2010, this well's casing integrity has been compromised and a new well will be drilled to replace the old one. Rio Algom Mining is currently reviewing the integrity of all DP-169 wells and will report the results to NMED and NRC.