

Lupin Mine, Nunavut
Phone (780) 890-7000
Fax (780) 890-8766



9818 International Airport
Edmonton, Alberta
T5J 2T2

ECHO BAY MINES LTD.

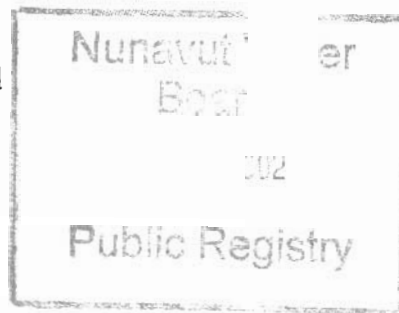
August 19, 2002

Our File: NWB1LUP0008-Monthly02

Your File: Water Register

NWB1LUP0008

Executive Director
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
X0B 1J0



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Dear Sir:

**RE: Echo Bay Mines Ltd., Lupin Gold Mine, Contwoyto Lake, NU.; Water Licence
NWB1LUP0008; Surveillance Network Program Monthly Report**

As required by Part A, Item 6 of the Surveillance Network Program (Schedule 1) of the Water Licence, please find attached a copy of our **July, 2002** monthly report.

Monthly Water Use and Mill Production

The monthly water use and mill production data are included in the attached report for your review.

Sewage Lakes Discharge

The Lupin Sewage Lakes discharge continued through the month of July with the use of the 8" syphon. There was one sampling requirement for the Sewage Lakes discharge with the results included in the attached tables. The monthly flow for July was 95,242 m³.

During July, the water level within the second lake had lowered to below the culvert opening. The 8" syphon line was started up on July 27, 2002 to assist the flow and lower the lake level beyond the culvert, increasing capacity for the following winter/spring season.

Tailings Containment Area Discharge

Prior to discharge being initiated, on July 8, 2002 a sample of the TCA Pond No.2 was submitted to Environment Canada's Ecotoxicology Laboratory in Edmonton for toxicity testing as required



by Schedule 1, Table 1 of the Licence. The results indicated 0% mortality/immobile for both the Daphnia and rainbow trout bioassays. This report, issued August 2, 2002 is included in the attached information. A second bioassay is to be completed just prior to termination of decant (approximately the end of August).

The Tailings Containment Area discharge for 2002 began on July 15, 2002 at approximately 2:00 p.m. with the operation of one syphon flowing at 21.4 m³/min. The second syphon would not prime and the third available syphon was checked, primed and began operating at approximately 3:00 p.m. with a flowrate of approximately 14.0 m³/min. The table included shows the daily flowrates, total daily flows and monthly total. The summary includes flows at each syphon indicating the change of syphons once problems were fixed (the spare syphon was not set up for the permanent flow meter use, therefor flows for this syphon during the initial decant were calculated using a portable flow meter).

The total volume discharged for July was 1,041,440 m³ with an average daily total flow of 65,090 m³/day. The flowrate on the second syphon required daily adjustment to maintain total daily flows within the maximum 70,000 m³ set in the Licence. After the first two weeks the water level in Pond No.2 is such that the syphons can both be allowed to flow at their maximum and remain within the limits of the Licence. Overall water elevation in Pond No.2 has been lowered approximately 1.14 metres with an estimated 0.5 metres remaining before the syphons will stop operating on their own. The discharge is currently being supplemented by transfer of water from the Pond No.1 with an estimated termination of discharge at approximately the end of August.

Analytical results are included in the tables for all SNP sampling requirements prior to and during discharge of the TCA for the month of July. Quality Control sample results are also included in the tables which include replicate samples and a field blank submitted to the lab with each sample set. The Norwest Labs Ltd. laboratory Quality Control Reports for each sample set are included in the attached.

Should you have any questions or comments regarding this report, please feel free to contact the undersigned at (780) 890-8794, Lupin.

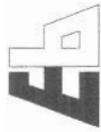
Yours truly,



D. Hohnstein
Environmental Coordinator, Lupin

Attach.

cc B. Danyluk
 H. Ducasse
 Mill Operations



ECHO BAY MINES LTD.

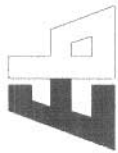
LUPIN GOLD MINE, Nunavut

Licence NWBILUP008

July SNP Sampling Report - Water Quality Results

Log No.	Date	Station	Routine Analysis			Total As (mg/L)	Total CN (mg/L)	Total Metals (mg/L)					Alk. (mg/L)	NH ₄ (mg/L)	Hard. (mg/L)
			Temp (C)	pH	Cond (us)			Zn	Cu	Pb	Ni	Cd			
20014	7/3/2002	W 925-22	18.2	6.49	13.78	<1	0.0008	0.010	0.002	0.0001	0.0010	0.00002	<5	<0.05	4.5
20015	7/3/2002	W 925-24	11.6	6.34	14.09	2	0.0007	0.002	0.003	<0.0001	0.0011	<0.00001	<5	<0.05	4.5
20016	7/3/2002	W 925-25	8.4	6.33	14.07	1	0.0008	0.010	0.003	<0.0001	0.0011	<0.00001	<5	<0.05	4.5
20018	7/5/2002	M 925-14	16.3	6.96	14.2	<1	0.0094	0.030	0.004	0.0002	0.0128	0.00004	10	5.54	529
20037	7/9/2002	W 925-22	14.6	6.51	13.83	---	0.0007	<0.002	0.004	<0.0001	0.0006	<0.00001	---	<0.05	<7
20038	7/9/2002	W 925-24	9.67	6.39	14.13	---	0.0008	0.006	0.004	0.0002	0.0011	0.00001	---	<0.05	3.4
20039	7/9/2002	W 925-25	8.17	6.39	14.13	---	0.0007	0.004	<0.001	<0.0001	0.0007	<0.00001	---	<0.05	6.4
20046	7/15/2002	D 925-10	14.7	7.01	358	<1	0.0149	0.004	0.191	0.012	0.0005	0.0807	20	1.08	245
20047	7/16/2002	W 925-20	14.7	6.45	163	4	0.0084	<0.002	0.022	<0.0001	0.0228	0.00004	9	<0.05	50.3
20048	7/16/2002	W 925-21	14.3	6.26	12.4	<1	0.0004	<0.002	<0.001	0.002	0.0005	<0.00001	<5	<0.05	4.6
20049	7/16/2002	W 925-22-1	14.4	6.27	13.5	1	0.0007	<0.002	0.001	<0.0001	0.0009	<0.00001	<5	<0.05	4.7
20052	7/16/2002	W 925-24	13.4	6.26	13.4	<1	0.0007	<0.002	0.004	<0.0001	0.0008	<0.00001	<5	<0.05	4.4
20053	7/16/2002	W 925-25	9.5	6.24	13.3	1	0.0006	<0.002	0.003	0.0001	0.0007	<0.00001	<5	<0.05	3.7
20055	7/16/2002	D 925-10	14.2	6.68	---	<1	0.0075	<0.002	0.194	0.007	---	---	---	---	---
20068	7/17/2002	D 925-10	13.4	6.97	---	1	0.0087	0.006	0.206	0.014	---	---	---	---	---
20069	7/18/2002	D 925-10	13.3	7.17	353	<1	0.0070	0.008	0.007	---	---	---	---	---	---
20070	7/19/2002	D 925-10-1	14.2	7.12	351	<1	0.0071	0.012	0.185	0.007	---	---	---	---	---
20073	7/20/2002	D 925-10	14.4	7.19	380	<1	0.0111	0.022	0.225	0.010	---	---	---	---	---
20074	7/21/2002	D 925-10	15.6	7.00	866	<1	0.0071	0.018	0.190	0.007	---	---	---	---	---
20075	7/22/2002	W 925-10	15.6	7.20	878	<1	0.0069	0.014	0.186	0.007	0.0775	0.00017	10	1.06	233
20077	7/23/2002	D 925-10	16.2	6.90	855	<1	0.0074	0.098	0.196	0.007	---	---	---	---	---
20078	7/23/2002	W 925-20	21.1	6.34	802	<1	0.0038	0.046	0.131	0.003	0.0775	0.00019	<5	0.56	217
20079	7/23/2002	W 925-21	20.8	6.50	11.9	<1	0.0005	0.002	0.001	0.002	0.0007	<0.00001	<5	<0.05	5.1
20080	7/23/2002	W 925-22-1	20.4	6.43	179	<1	0.0011	0.014	0.021	<0.0001	0.0134	0.00002	<5	<0.05	45.1
20083	7/23/2002	W 925-24	15.4	6.56	53.7	<1	0.0008	0.004	0.011	0.002	<0.0001	<0.00001	<5	<0.05	14.2
20084	7/23/2002	W 925-25	11.2	6.43	12.9	<1	0.0006	0.002	0.002	<0.0001	0.0011	<0.00001	<5	<0.05	4.3
20086	7/24/2002	D 925-10	16.7	6.93	853	<1	0.0073	0.104	0.194	0.007	---	---	---	---	---
20089	7/25/2002	D 925-10	17.9	7.05	843	<1	0.0078	0.096	0.201	0.007	---	---	---	---	---
20091	7/26/2002	D 925-10	18.1	7.16	852	<1	0.0076	0.076	0.205	0.008	---	---	---	---	---
20092	7/27/2002	D 925-10	15.8	7.14	846	<1	0.0079	0.014	0.213	0.007	---	---	---	---	---
20093	7/28/2002	D 925-10	15.1	7.14	847	<1	0.0085	0.108	0.209	0.007	---	---	---	---	---
20094	7/29/2002	W 925-10-1	12.8	7.10	---	2	0.0121	0.020	0.209	0.007	0.0866	0.00022	13	1.32	243
20098	7/30/2002	D 925-10	11.6	6.91	---	5	0.0109	0.092	0.207	0.007	---	---	---	---	---
20099	7/31/2002	D 925-10	10.8	6.79	---	2	0.0800	0.080	0.206	0.006	---	---	---	---	---

"D-Daily "W-Weekly "M-Monthly			Nutrient Analysis							
Log No.	Date	Station	Total Nitrate (mg/L)	Total N (mg/L)	Total Nitrite (mg/L)	Total OrthoP (mg/L)	Total Phosphorus (mg/L)	Faecal Coliform (CFU/100mL)	G/O Sheen (mg/L)	BOD (mg/L)
20018	7/5/2002	M 925-14	9.5	5.93	<0.002	<0.05	0.15	<1	5	<4



ECHO BAY MINES LTD.

LUPIN GOLD MINE, Nunavut

Licence NWBILUP008

July SNP Sampling Quality Control

Log No.	Date	Station	Routine Analysis				Total As (mg/L)	Total CN (mg/L)	Total Metals (mg/L)					Alk. (mg/L)	NH ₄ (mg/L)	Hard. (mg/L)
			Temp (C)	pH	Cond (us)	TSS (mg/L)			Zn	Cu	Pb	Ni	Cd			
20017	7/4/2002	W Blank	---	5.40	---	<1	<0.0002	<0.002	0.002	0.006	0.0008	<0.0005	<0.00001	<5	<0.05	<0.7
20030	7/9/2002	W Blank	----	----	----	----	<0.0002	<0.002	0.004	0.003	0.0002	<0.0005	<0.00001	----	<0.05	3.9
20054	7/16/2002	W Blank		7.14	1.2	1	<0.0002	<0.002	0.002	0.001	<0.0001	<0.0005	<0.00001	9	<0.05	<0.7
20076	7/22/2002	W Blank		5.33	2.3	<1	<0.0002	0.004	0.002	0.004	0.0003	<0.0005	<0.00001	<5	<0.05	1.3
20085	7/23/2002	W Blank		5.31	1.1	<1	<0.0002	0.002	0.003	0.002	0.0002	<0.0005	<0.00001	<5	<0.05	<0.7
20097	7/29/2002	W Blank	---	4.91	1.3	<1	<0.0002	<0.002	0.002	0.005	0.0002	<0.0005	<0.00001	<5	<0.05	1.7
20070	7/19/2002	W 925-10-1	14.2	7.12	851	<1	0.0071	0.012	0.185	0.007	---	---	---	---	---	---
20071	7/19/2002	W 925-10-2	14.2	7.18	851	<1	0.0070	0.014	0.187	0.007	---	---	---	---	---	---
20072	7/19/2002	W 925-10-3	14.1	7.19	844	<1	0.0069	0.012	0.184	0.007	---	---	---	---	---	---
20084	7/29/2002	W 925-10-1	12.8	7.10	840	2	0.0121	0.020	0.209	0.007	0.0003	0.0866	0.00022	13	1.32	243
20085	7/29/2002	W 925-10-2	12.7	7.06	841	2	0.0105	0.086	0.205	0.006	0.0002	0.0851	0.00021	10	1.30	245
20096	7/29/2002	W 925-10-3	12.8	7.00	849	<1	0.0112	0.114	0.213	0.007	0.0003	0.0877	0.00024	9	1.29	245
20049	7/16/2002	W 925-22-1	14.4	6.27	13.5	1	0.0007	<0.002	0.001	0.002	<0.0001	0.0009	<0.00001	<5	<0.05	4.7
20050	7/16/2002	W 925-22-2	14.4	6.26	13.7	<1	0.0008	<0.002	<0.001	0.003	<0.0001	0.0008	<0.00001	<5	<0.05	4.7
20051	7/16/2002	W 925-22-3	14.4	6.26	14.1	<1	0.0008	<0.002	<0.001	0.001	<0.0001	0.0012	<0.00001	<5	<0.05	4.5
20080	7/23/2002	W 925-22-1	20.4	6.43	179	<1	0.0011	0.014	0.021	0.001	<0.0001	0.0134	0.00002	<5	<0.05	45.1
20081	7/23/2002	W 925-22-2	20.7	6.46	178	<1	0.0012	0.010	0.021	0.002	<0.0001	0.0130	0.00003	<5	<0.05	45.1
20082	7/23/2002	W 925-22-3	20.3	6.42	178	<1	0.0012	0.010	0.019	0.001	<0.0001	0.0125	0.00003	5	0.11	44.5



ECHO BAY MINES LTD.

LUPIN GOLD MINE, Nunavut
Licence NWBILUP008

July 2002 Discharge Flow Monitoring from Pond No.2

Date	Time	Hours of Flow	Syphon No.1(4)		Daily Flow	Syphon No.2(3)		Daily Flow	Spare Syphon*		Daily Flow	Total Daily		Cumulative		Daily Water	Cumulative	
			Meter Reading	m ³ / Minute	m ³ /day	Meter Reading	m ³ / Minute	m ³ /day	Meter Reading	m ³ / Minute	m ³ /day	Discharge (m ³)	m ³ /day	Discharge (m ³)	m ³	Drop (cm)	Discharge (m ³)	Water Drop
7/15/2002	3:00 PM	0.0	1689	21.4	0	3992474	0.0	0	----	14.0	0	0	0	0	0	0	0	0
7/16/2002	9:30 AM	18.5	25107	20.7	25107	3992474	0.0	0	----	25.0	21845	45011	21845	45011	45011	6	45011	6
7/17/2002	7:00 AM	21.5	47719	21.0	22612	3992474	0.0	0	----	24.0	31505	58502	31505	58502	103512	6	103512	12
7/18/2002	6:45 AM	23.8	77456	20.2	29737	3992474	0.0	0	----	24.5	34556	63911	34556	63911	167423	7	167423	19
7/19/2002	6:45 AM	24.0	106951	20.0	29495	3992474	0.0	0	----	24.5	35280	64224	35280	64224	231647	8	231647	27
7/20/2002	6:30 AM	24.0	142977	25.4	36026	4015319	19.8	22845	----	0.0	0	58871	0	58871	290518	7	290518	34
7/21/2002	8:00 AM	25.5	184055	25.5	41078	4045920	19.9	30601	----	0.0	0	71679	0	71679	362197	7	362197	41
7/22/2002	6:30 AM	22.5	218278	25.5	34224	4074967	19.9	29047	----	0.0	0	63271	0	63271	425468	9	425468	50
7/23/2002	6:30 AM	24.0	255565	25.5	37287	4106734	22.2	31767	----	0.0	0	69054	0	69054	494522	5	494522	55
7/24/2002	6:30 AM	24.0	292158	26.5	36592	4137909	21.8	31175	----	0.0	0	67767	0	67767	562289	7	562289	62
7/25/2002	6:30 AM	24.0	328982	25.0	36824	4169245	21.4	31337	----	0.0	0	68161	0	68161	630450	7	630450	69
7/26/2002	6:30 AM	24.0	364939	25.1	35957	4199667	21.9	30422	----	0.0	0	66379	0	66379	696829	7	696829	76
7/27/2002	6:30 AM	24.0	401074	25.7	36134	4231461	22.2	31794	----	0.0	0	67928	0	67928	764757	7	764757	83
7/28/2002	6:30 AM	24.0	437026	24.1	35952	4264441	23.6	32980	----	0.0	0	68932	0	68932	833689	8	833689	91
7/29/2002	6:30 AM	24.0	472673	24.1	35647	4298523	23.8	34082	----	0.0	0	69729	0	69729	903418	6	903418	97
7/30/2002	6:30 AM	24.0	508629	24.5	35956	4333229	23.5	34707	----	0.0	0	70662	0	70662	974081	9	974081	106
7/31/2002	6:30 AM	24.0	542436	23.1	33807	4351946	23.1	18717	----	0.0	0	67359	0	67359	1041440	8	1041440	114
July Totals/Averages			640747	23.7	33902	369472	21.9	29956	---	22.4	30772	66090	30772	66090	1041440	7	1041440	114

*Spare syphon discharge was calculated based on flow rate (m³/min) and hours of flow using the following formula:
 Daily Flow (m³/day) = flow rate (m³/min) x (60min/hour) x hours of flow

July 2002 Discharge from Sewage Pond:

Culvert total	87678.305 m3	July 1-29
Syphon Total	7563.9 m3	July 27-31
Total discharge for July	95242.205 m3	July 1-31