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NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN

## WATER LICENCE APPLICATION FORM

Application for: (check one)			
X New Amendment Renew	valAssignment		
LICENCE NO: (for NWB use only)			
1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)		
Echo Bay Mines Ltd. 9818 Edmonton Int'l Airport Edmonton, AB T5J 2T2	Kinross Gold Corporation 52 <sup>nd</sup> Floor, Scotia Plaza 40 King Street West Toronto, ON M5H 3Y2		
Phone: 780-890-8797 Fax: 780-890-8814 e-mail: mike.tansey@kinross.com	Phone:		
3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)			
Lupin Mine, Nunavut. Located on the west shore of Contwoyto Lake, approximately 285 km S.E. of the community of Kugluktuk, Nunavut.			
Latitude: 65° 46'05''N Longitude: 111° 14'45''W NTS Map No. 76E/14 Scale			
4. <b>DESCRIPTION OF UNDERTAKING</b> (attach p	lans and drawings)		
This application is for cancellation of the current Type "A" water licence, to be replaced by a Type "B" water licence, which will be sufficient for reduced water use at the mine during the reclamation activities in progress.			
<b>5. TYPE OF PRIMARY UNDERTAKING</b> (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in " <b>bold</b> ")			
X Industrial	_ Agricultural		
	_ Conservation		
Municipal (includes camps/lodges)	_ Recreational		
Power	_ Miscellaneous (includes exploration/drilling) (describe):		
Reclamation of tailings disposal area, demolition of all mine infrastructure, waste disposal.			
See Schedule II of Northwest Territories Waters Regulations for Description of Undertakings			

6. WATER USE		
	To divert a watercourse Flood control Other (describe):	
7. QUANTITY OF WATER INVOLVED (cubic metres returned to source)	per day including both quantity to be used and quality to be	
Water use will be limited to 109,500 cubic metres per year or lesstorage methods required to reduce contaminant levels associate		
<b>8. WASTE</b> (for each type of waste describe: composition, disposal, etc.)	quantity (cubic metres per day), methods of treatment and	
<u>X</u> Sewage (109,500 cu.m. per year)	Waste oil	
Solid Waste	Greywater	
Hazardous	Sludges	
Bulky Items/Scrap Metal X O	ther (describe): Remediation of tailings containment area	
Sewage waste effluent will be deposited in sewage containment ponds and released to the environment during the summer, as per prior practice. Approximately 1240 cubic metres of solid waste recovered from tailings containment area (tailings pipe, structures, etc) will be transported to Lupin minesite and disposed of in current mine landfill.		
9. PERSONS OR PROPERTIES AFFECTED BY THIs location; attach if necessary)	S UNDERTAKING (give name, mailing address and	
Land Use Permit		
DIAND <b>Lease 76E 14-1-9 X</b> Yes No If no, or	date expected	
Regional Inuit Association Yes No If no, o	date expected	
Commissioner Yes No If no, of	date expected	
10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)		
Refer to "2005 Abandonment and Restoration Plan, Lupin Tailin June 29, 2005. It is believed that there will be no adverse environment and Restoration Plan, Lupin Tailin June 29, 2005. It is believed that there will be no adverse environment and Restoration Plan, Lupin Tailin June 29, 2005.		
NIRB Screening Yes <b>X</b> N than 300 cubic metres per day (109,500 cu.m. per annum).	To If no, date expected: Not necessary. Water use less	
11. INUIT WATER RIGHTS		
Will the project or activity substantially affect the quality, quant and the rights of Inuit under Article 20 of the Nunavut Land Cla		
If yes, has the applicant entered into an agreement with the Desig damage that may be caused by the alteration. If no compensation determined?		

## 12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

- BGC Engineering, 840 7th Avenue SW, Calgary, AB T2P 3G2 Ph: (403) 250-5185 Attn: Jim Cassie Geotechnical inspections of tailings containment dams.
- Holubec Consulting, 1117 Notley Crescent, Oakville, ON L6M 1H4 Ph: (905) 825-8793 Attn: Igor Holubec Design of containment dams; design of saturated granular zone cover for tailings remediation.
- Golder Associates, 1000, 940 6th Avenue S.W. Calgary, AB T2P 3T1 Ph: (403) 299 5600 Attn: Bill Liu Assessment of gravel material properties for tailings cover; Thermal analyses of covered tails and interaction between ponds and cells; Assessment of pore water expulsion potential of covered tailings; Climate and hydrology study Lupin TCA.
- Golder Associates, 1000, 940 6th Avenue S.W. Calgary, AB T2P 3T1 Ph: (403) 299 5600 Attn: Cindy Robinson Ecological risk assessment of covered tailings.
- Robinsons Enterprises Ltd., 350 Old Airport Road, Yellowknife, NT X1A 2P4 Ph: (867) 873-6271 Attn: Marvin Robinson
  - Load, haul and place esker gravel on exposed tailings cells

## 13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

Studies provided to Nunavut Water Board during the term of this licence:

- 2005 Abandonment and Restoration Plan, Lupin Tailings Containment Area, Kinross Gold Corporation, June 2005; including:
  - Golder Assoc.; Studies Related to Water Licence Requirements and in Support of Reclamation Planning (Lupin Mine); Dec 2004a;
  - o Golder Assoc., Ecological Risk Assessment for Lupin Mine Tailings Containment Area; Dec 2004b;
  - o Golder Assoc.; 2004 Dam Safety Review, Perimeter Tailings Dams; Dec 2004c
  - o Holubec Consulting; Lupin Operation Closure Plan for Tailings Containment Area; Jan 2005;
- Golder Assoc.; Lupin Gold Mine Environmental Effects Monitoring Study Design, Dec 2004
- Golder Assoc.; Lupin Gold Mine Environmental Effects Monitoring Program Historical Information Report; Dec 2003;
- BGC Engineering; Annual Geotechnical Inspections of tailings dams (2000 to 2004);
- Monthly and Annual Lupin Surveillance Network Program Reports.

14. THE FOLLO REGULATORY PRO	WING DOCUMENTS <u>MUST</u> BE II CESS TO BEGIN	NCLUDED WITH THE AI	PPLICATION FOR THE	
Supplementary Question	nnaire (where applicable: see section	5) Yes <u><b>X</b></u> No If no, o	late expected: only if requested	
Inuktitut/English Summ	nary of Project	Yes _ <b>X</b> _No If no	, date expected <u>Aug 30, 2005</u>	
Application fee \$30.00	(Payee Receiver General for Canada)	Yes <b>X</b> _No If no	, date expected Aug 30, 2005	
Water Use fee (see Section 9 of the NWT Waters Regulations; Payee Receiver General for Canada)				
`	o o	· ·	date expected Aug 30, 2005	
15. PROPOSED TIME SCHEDULE				
Annual (or) X Multi Year Refer to 2005 Lupin TCA A&R Plan for project schedule.				
Start Date: Ongoing	Completion Date: September 2011			
		Michael Tanon		
Michael Tansey	Reclamation Manager, Lupin	Michael Tansey	Aug 9, 2005	
Name (Print)	Title (Print)	Signature	Date	

For Nunavut Water Board use only			
APPLICATION FEE	Amount: \$	Pay ID No.:	
WATER USE DEPOSIT	Amount: \$	Pay ID No.:	