

Mon 13/02

Steph. Leach

Διεύθυνση: P.O. Box 2379 Cambridge Bay, NT / EKALUKTUTIAK, NUNATAMI XOE OCO • Τηλέφωνο / NIVAYAOTA: (867) 983-2593 • Φαξ / FAX-KOT: (867) 983-2594

Reasons for Decision:

NIRB's decision is based on specific considerations that reflect the primary objectives of the Land Claims Agreement. Our considerations in making this decision included:

- the impact of drilling activities on the ecosystem;
- disposal of drill cuttings and waste water;
- impact to water quality, aquatic habitat and wildlife and fish populations from chemicals, drill waste, drill fluids and potential fuel spills;
- storage and disposal of chemicals, fuel, garbage, sewage, and gray water, and impact of these on the ecosystem;
- the impact of noise from drilling activities and their disturbance to wildlife and traditional users of area;
- the impact of campsite and equipment on terrain;
- the impact of exploration activities on archaeological sites or cultural landmarks in the area; and
- clean up/restoration of the camp site and drilling locations upon abandonment.

Terms and Conditions:

That the terms and conditions attached to this screening report will apply.

Drill Sites

1. The Licensee shall not conduct any land based drilling within thirty-one (31) metres of the normal high water mark of a water body.
2. The Licensee shall conduct any the lake-based winter drilling, in accordance with the Interim Guidelines for On-Ice drilling.
3. The Licensee shall ensure that all drill cuttings are removed from ice surfaces.
4. The Licensee shall not use drilling muds or additives in connection with drill holes unless they are recirculated or contained such that they do not enter the water, or are certified to be non-toxic.
5. The Licensee shall ensure that any drill cuttings and waste water that cannot be re-circulated be disposed of in a properly constructed sump or an appropriate natural depression that does not drain into a waterbody.
6. The Licensee shall ensure that drilling wastes do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over non-biodegradable types.
7. The Permittee shall not establish any stockpiles within thirty-one (31) metres of the normal high water mark of a water body.
8. The Lessee shall ensure that the release of total suspended solids in the receiving environment shall be in compliance with *Guidelines for Total Suspended Solids* contained in the *Canadian Council of Ministers for the Environment's (CCME) Canadian Water Quality Guidelines, Chapter 3 - Freshwater Aquatic Life* (i.e. 10mg/L for lakes with background level under 100mg/L, or 10% for those above 100mg/L).

9. The Licensee shall ensure that the sump/depression capacity is sufficient to accommodate the volume of waste water and any fines that are produced so that there will be no additional impacts.
10. The Licensee shall not locate any sump within thirty-one (31) metres of the normal high water mark of any water body.
11. The Licensee shall ensure that disturbance of vegetation from deposit of drill fluids/cuttings is restricted to the area of the sump and the ground prepared for revegetation upon abandonment.
12. The Licensee shall not use mechanized clearing within 30 meters of the normal high water mark of a watercourse in order to maintain a vegetative mat for bank stabilization.
13. The Licensee shall, where flowing water from bore holes is encountered, plug the bore hole in such a manner as to permanently prevent any further outflow of water. The occurrence shall be reported to the Nunavut Water Board and Land Use Inspector within 48 hours.

Water

14. The Licensee shall ensure that all water intake hoses are equipped with a screen with an appropriate mesh size to ensure that there is no entrapment of fish.

Fuel and Chemical Storage

15. The Licensee shall ensure that fuel storage containers are not located within thirty-one (31) metres of the ordinary high water mark of any body of water.
16. The Licensee shall ensure that any chemicals, fuels or wastes associated with the project do not spread to the surrounding lands or enter into any water body.
17. The Licensee shall construct an impermeable dyke around each stationary fuel container or group of stationary fuel containers where one container has the capacity exceeding 4,000 litres.
18. The Licensee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
19. The Licensee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
20. The Licensee shall seal all container outlets except the outlet currently in use.
21. The Licensee shall mark all fuel containers with the Licensee's name.
22. The Licensee shall dispose of all combustible waste petroleum products by incineration and removal from the site.
23. The Licensee shall have an approved emergency response and spill contingency plans in place prior to the commencement of the operation.
24. The Licensee shall immediately report all spills of petroleum and hazardous chemicals to the twenty-four (24) hour spill report line at (867) 920-8130.

Waste Disposal

25. The Licensee shall not discharge or deposit any refuse substances or other waste materials in any body of water, or on the banks thereof, which will impair the quality of the waters of the natural environment.
26. The Licensee shall not locate any sumps or areas designated for waste disposal within thirty-one (31) metres of the ordinary high water mark of any body of water, and be sufficiently bermed or otherwise contained to ensure that these substances do not enter a waterway unless otherwise authorized.
27. The Licensee, prior to the discharge of fluids from any sump, shall carry out an analysis of the fluid in a manner prescribed by the NWB.
28. The Licensee shall treat greywater and sewage according to the terms and conditions outlined in the NWB approval.
29. The Licensee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the license.
30. The Licensee shall incinerate all combustible and food wastes daily. The Licensee shall use as a minimum incineration method a 45 gallon drum modified to form a more efficient incinerator.
31. The Licensee shall keep all garbage and debris in a covered metal container until disposed of.
32. The Licensee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
33. The Licensee shall deposit all scrap metal, discarded machinery and parts, barrels and kegs, at an approved disposal site.

Wildlife

34. The Licensee shall ensure that there is no damage to wildlife habitat in conducting this operation.
35. The Licensee shall not feed wildlife.
36. The Licensee use the latest bear detection and deterrent techniques to minimize man-bear interactions and shall report any Man-Bear Interactions to the nearest Renewable Resource Officer.
37. The Licensee shall ensure that the drill sites avoid known environmentally sensitive areas (denning, nesting etc.) by a minimum of 250 metres.
38. The Licensee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
39. The Licensee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys or movement of equipment, drilling activities until the caribou and their calves have vacated the area.
40. The Licensee shall not conduct any activity associated with the land use operation during critical periods of wildlife cycles (eg. caribou migration, calving, fish spawning or raptor nesting).
41. That the Licensee shall ensure that there is no hunting by employees of the company or any contractors hired.

42. That the Licensee remove any carcasses along the roadway to prevent attraction by scavengers, preventing further road kills.
43. The Licensee shall ensure that aircraft pilots adhere to recommended flight altitudes of greater than 300 m above ground level as to not disturb wildlife. Raptor nesting sites and concentrations of nesting or molting waterfowl should be avoided by aircraft at all times.
44. The Licensee shall ensure compliance with Section 36 of the Fisheries Act which requires that no person shall deposit or permit the deposit of a deleterious substance on any type in water frequented by fish or in any place under any conditions where the deleterious substance may enter such a water body.
45. The harmful alteration, disruption or destruction of fish habitat is prohibited under Section 35 of the Fisheries Act. No construction or disturbance of any stream/lake bed or banks of any definable watercourse is permitted unless authorized by DFO.
46. The Licensee shall not detonate explosives within fifteen (15) metres of any body of water which is not completely frozen to the bottom.

Environmental

47. The Licensee shall ensure that the land use area is kept clean and tidy at all times.
48. The Licensee shall prepare the site in such a manner as to prevent rutting of the ground surface.
49. The Licensee shall not do anything that will cause erosion of the banks of any body of water on or adjacent to the land and shall provide necessary controls to prevent such erosion.
50. The Licensee shall be required to undertake any corrective measures in the event of any damage to the land or water as a result of the Licensee's operation.
51. The Licensee shall not remove any material from below the ordinary high water mark of any waterbody.
52. The Licensee shall adopt such measures as required to control erosion by surface disturbance.
53. The Licensee shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.
54. The Licensee shall suspend overland travel of equipment or vehicles if rutting occurs.

Structure & Storage Facilities

55. The Licensee shall not erect structures or store material on the surface ice of lakes or streams.
56. The Licensee shall locate all structures and storage facilities on gravel, sand or other durable land.
57. The Licensee shall use existing housing and operational facilities.

Archaeological Sites

58. The Permittee shall follow all terms and conditions for the protection and restoration of archaeological resources as outlined by the Department of Culture, Language, Elders and Youths (CLEY) in attached letter.

Attachments

59. The Permittee shall refer to the attached Fisheries and Oceans letter of advice addressed to the Permittee.

Reclamation

60. The Licensee shall remove all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material upon abandonment.
61. The Licensee shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.
62. The Licensee shall undertake ongoing restoration for any land or improvements which are no longer required for the Licensee's operation on the land.
63. The Licensee shall plug or cap all bore holes and cut off any drill casings that remain above ground to ground level upon abandonment of the operation.

Other Recommendations

1. NIRB would like to encourage the proponent to hire local people and services, to the extent possible.
2. NIRB strongly advises proponents to consult with local residents regarding their activities in the region, and do community consultation on the project to keep the communities informed.
3. Any amendment requests deemed by NIRB to be outside the original scope of the project will be considered a new project.
4. The Environmental Protection Branch (DEB), Department of Fisheries and Oceans (DFO), Nunavut Impact Review Board (NIRB), and the Nunavut Water Board (NWB) should be advised of any material changes to plans or operating conditions associated with the project.

Validity of Land Claims Agreement**Section 2.12.2**

Where there is any inconsistency or conflict between any federal, territorial and local government laws, and the Agreement, the Agreement shall prevail to the extent of the inconsistency or conflict.

Dated Mar 11/02 at Arviat, NU


Elizabeth Copland, Chairperson



Fisheries
and Oceans

Pêches
et Océans

Fish Habitat Management
P.O. Box 358
Iqaluit, Nunavut
X0A 0H0

Our file / Notre référence
NU00477

February 8, 2002

John Bokich
Kinross Gold Corporation
802 E. Winchester, Suite 100
Murray, Utah 84107
USA
Tel: (801)-290-1112
Fax: (801)-290-1102

RE: NWB File #NWB1G000104

Dear Mr. Bokich,

This letter is to advise that The Department of Fisheries and Oceans, Fish Habitat Management (DFO-FHM) received the Goose Lake Exploration Project request for authorization for camp expansion submitted on your behalf by the Nunavut Water Board. The project is proposed to commence late February or early March; the proposed completion date of the project was not indicated in the report. The DFO-FHM's assessment takes into consideration primarily fish and fish habitat related concerns. I have reviewed the plans for the proposed work.

Operations in or near water may result in the harmful alteration, disruption or destruction of fish habitat, which is prohibited under Section 35 of the *Fisheries Act*. The following mitigation measures, along with mitigation measures indicated in the project proposal, are intended to prevent any potentially harmful impacts to fish and fish habitat:

- All proposed work on land must take place thirty (30) metres from the normal high water mark of any water body to minimize potential impacts on fish habitat due to fuel oil spills and erosion.
- All disturbed areas should be stabilized as required, upon completion of work, and restored to a pre-disturbed state.
- If artesian flow is encountered, drill holes should be plugged and permanently sealed upon the completion of the project.
- When using explosives, please follow the Guidelines for the use of explosives in or near water (DFO, 1998) available on request. If, for any reasons these guidelines cannot be followed, please contact DFO, an Authorization may be required.

Canada

- If the drilling requires water in sufficient volume that the source waterbody may be drawn down please submit details (volume required, size of waterbody, etc.) to DFO-FHIM for review. DFO-FHIM does not recommend the use of streams as a water source.
- Winter lake/stream crossings should be located to minimize approach grades. Cutting or filling of crossing approaches below the normal high water mark will require review and approval by DFO-FHIM.
- All winter crossings should be removed prior to spring break-up.
- No material should be left on the ice when there is the potential for material to enter the water (i.e. spring break up).
- The use of material other than ice or snow to construct a temporary crossing over any ice-covered watercourse is prohibited by regulations under Fisheries Act unless authorized by a Fishery Officer.

Depositing deleterious substances into fish bearing waters is prohibited as stated under Subsection 36(3) of the *Fisheries Act*. The following are additional measures to mitigate habitat disturbance or loss as well as the deposition of deleterious substances.

- Sediment and erosion control measures should be implemented prior to, and maintained during the work to prevent sediment entry into the water during a spring thaw.
- The use of material, other than clean ice or snow to construct a temporary crossing over any ice-covered watercourse is prohibited by regulations under the *Fisheries Act*.
- All wastes, drill cuttings, sewage containments, and fuel caches should be located a minimum of thirty (30) metres from the normal high water mark of any water body, and be sufficiently bermed or otherwise contained to ensure that these substances do not enter any water body.
- Drill cuttings should be disposed of in a sump such that they do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over non-biodegradable types.
- All winter crossings should be removed prior to spring break up.
- All spills of oil, fuel, or other deleterious material should be reported immediately to the 24-Hour Spill Line at (867) 920-8130.

If the proposed work is carried out as described in the plans provided to DFO-FHIM and if the additional mitigation measures specified above are implemented, the proposed work will not be considered as contravening Subsection 35(1) of the *Fisheries Act* which reads:

"No person shall carry on any work or undertaking that results in the harmful alteration, disruption or destruction of fish habitat."

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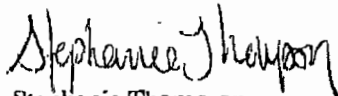
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Therefore, an authorization under Subsection 35(2) of the *Fisheries Act* will not be necessary. If a harmful alteration, disruption or destruction of fish habitat and/or the deposition of deleterious substances into fish bearing waters occurs as a result of a change in the plans for the proposed works or failure to implement the additional mitigation measures specified above, prosecution under Subsection 35(1) and/or Subsection 36(3) of the *Fisheries Act* may be initiated.

If you have any questions concerning the mitigation measures or should there be any changes to the proposed work, please contact me at (867) 979-8011 or Jordan DeGroot (867) 979-8007 or by fax at (867) 979-8039.

Sincerely,



Stephanie Thompson
Area Habitat Biologist
Fish Habitat Management
Eastern Arctic Area

c.c. Jordan DeGroot-Habitat Management Biologist
Philippe di Pizzo-Nunavut Water Board
Blair Needham-Project Geologist
Gladys Joudrey -Nunavut Impact Review Board
Winston Fillatre-A/C&P Supervisor/Fishery Officer



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Water Resources Division
Qimugjuk Building
P.O. Box 2200
Iqaluit, Nunavut
X0A 0H0

February 5, 2002

Rita Becker
Licence Administrator
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NT X0E 1J0

Dear Ms. Becker:

RE: Water Licence Renewal, George Lake Project

The Water Resources Division has reviewed the water licence application for the above-mentioned undertaking. In general, water-related aspects have been adequately addressed in the application and the current licence. Past inspections and annual reports have not noted any non-compliance issues at the site although camp activities have declined in recent years.

The application states that the camp will be used by 25-50 people, as a base camp for additional environmental studies. A site visit by DIAND personnel in the summer of 2001 revealed that clean up activities are required at this site as several waste fuel drums had accumulated, and some of the camp structures were in a state of disrepair. Therefore, we support the renewal of this licence and the applicant's plans to conduct remedial activities in 2002.

Should you have any questions or comments, please do not hesitate to contact me at (867) 975-4548 or by e-mail at johnsonmi@inac.gc.ca.

Sincerely,
Original signed by:

Michelle Johnson
Kitikmeot/Kivalliq Regional Coordinator

Canada

Your file - Votre référence

NWB2GEO9702

Our file - Notre référence



February 05 2002

Gladys Joudrey
Environmental Assessment Officer
NIRB -- Cambridge Bay

Renewal - George Lake Project Water License

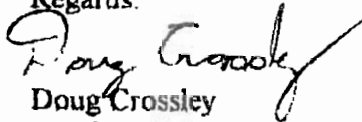
Perhaps the most intriguing part of this application came when the proponent identified that they would carry out as part of the 2002 work planned, a clean up of past activities and practices at the George Lake camp. This in itself is encouraging; however leaves me to wonder if perhaps the proponent was in non-compliance with previous licensing expectations, perhaps allowing a build-up of discarded materials and the like that they had indicated would be back hauled during earlier works.

This ongoing "Clean Camp" part of their responsibilities for 2002 has to be re-inforced with them and inspected by the regulatory authorities. Noted ongoing improvement must be made if they are to remain in compliance with their Water Use permit.

Otherwise, I feel the approach they indicate in their application and have carried out successfully elsewhere should meet the environmental needs to minimize impacts on the main water source here; that being George Lake.

This company has a good history of using local labour from the surrounding communities, most recently at their Goose Lake operation. Hopefully, this will be encouraged by all parties with Kinross as they seek their 2002 workforce.

Regards:


Doug Crossley
Special Advisor
CG&T -- Cambridge Bay

 Nunavut

 NUNAVUT KAVAMAT • GOVERNMENT OF NUNAVUT • GOUVERNEMENT DU NUNAVUT

COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Renewal George Lake Project
 Proponent: Kinross Gold Corporation
 Location: George Lake Area, NIRB#: 02ER013
 Comments Due By: Tuesday February 26, 2002

Indicate your concerns about the project proposal below:

- | | |
|---|---|
| <input type="checkbox"/> no concerns | <input type="checkbox"/> traditional uses of land |
| <input type="checkbox"/> water quality | <input type="checkbox"/> Inuit harvesting activities |
| <input type="checkbox"/> terrain | <input type="checkbox"/> community involvement and consultation |
| <input type="checkbox"/> air quality | <input type="checkbox"/> local development in the area |
| <input type="checkbox"/> wildlife and their habitat | <input type="checkbox"/> tourism in the area |
| <input type="checkbox"/> marine mammals and their habitat | <input type="checkbox"/> human health issues |
| <input type="checkbox"/> birds and their habitat | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> fish and their habitat | |
| <input type="checkbox"/> heritage resources in area | |

Please describe the concerns indicated above:

Part Camp Clean up Practices.

Do you have any suggestions or recommendations for this application?

Ensure a thorough 2002 Clean Up.

Do you support the project proposal? YES ☒ NO ☐

Any additional comments?

Name of person commenting: Doug Crussley of Cambridge Bay
 Position: Special Advisor Organisation: CG+T
 Signature: Doug Crussley Date: Feb 26, 02



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Coast Guard

Garde côtière

Central & Arctic Region

Région du Centre et de l'Arctique

201 N. Front Street, Suite 703
Sarnia, Ontario
N7T 8B1

Your file Votre référence

Our file Notre référence
1675-9-9

February 7, 2002

Gladys Joudrey
Nunavut Impact Review Board
PO Box 2379
Cambridge Bay, NT X0E 0C0

Dear Madam:

Thank you for your submission with regard to NIRB # 02ER013, Renewal George Lake Project, Kinross Gold Corporation, George Lake Area, Nunavut.

The information will be reviewed by this office and our response will be forwarded to DFO Fish Habitat in Iqaluit. They in turn will prepare a Departmental response encompassing both the Navigable Waters Protection Act and the Fisheries Act.

Yours truly,

Barry Putt
A/Inspections Supervisor
Navigable Waters Protection

BP/kab

cc: FHM

Canada

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| <input type="checkbox"/> wildlife and their habitat | <input type="checkbox"/> tourism in the area |
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| <input type="checkbox"/> birds and their habitat | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> fish and their habitat | |
| <input type="checkbox"/> heritage resources in area | |

Please describe the concerns indicated above:

- past inspections by DIAND have not noted compliance issues at the site

Do you have any suggestions or recommendations for this application?

- site visit by DIAND staff in summer 2001 noted that several empty fuel barrels had accumulated and buildings are dilapidated.
- accumulation of barrels may result in soil contamination and possible impacts on nearby waters

Do you support the project proposal? YES ☒ NO ☐

Any additional comments?

- DIAND encourages remediation activities at this site including proper removal of fuel barrels, contaminated soils and dilapidated buildings and other redundant equipment
- please see attached letter to NWS, dated Feb 5/02

Name of person commenting: Michelle Johnson **of** DIAND local
Position: Regional Coordinator **Organisation:** Water Management
Signature: [Signature] **Date:** Feb 11/02



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Fax: (867) 983-2594

Phone: (867) 983-2593

Date: March 12, 2002

To: Rita Becker

Jack Kantak

Fax #: _____

From: _____ **Stephanie Briscoe**
Executive Director
e-mail: sbriscoe@polarnet.ca

Linda Burles
Executive Secretary
e-mail: lburles@polarnet.ca

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Total # of Pages including this page: 17

☐ Urgent ☐ Reply ASAP ☐ Please Comment ☐ Please Review ☒ For Your Info

Comments:

CLFV comments will be sent when received.

Thanks
Glady's.

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