

KINROSS GOLD CORPORATION

GOOSE LAKE PROJECT

SPILL CONTINGENCY PLAN

Updated June 2001
Kinross Gold Corporation
Goose Lake Project

Contingency Spill Plan

INTRODUCTION

This contingency plan has been compiled to assist site personnel to respond in an appropriate and expeditious manner to an accidental spill at the Goose Lake exploration project. The plan follows the Northwest Territories Water Board "Guidelines for Contingency Planning" (1987) suggested format, and will be updated to be consistent with a Nunavut Territory Water Board Contingency Planning document, should it become available. The plan is divided into five sections:

- 1) Introduction – Purpose and background of plan.
- 2) Response Organization - lists the duties of personnel responsible for responding to spills.
- 3) Initial Action - lists steps to be taken immediately if a spill occurs
- 4) Reporting Procedure- details how to report a spill
- 5) Environmental Mapping- identifies the areas where fuel and other materials requiring management will be stored

Presently the only combustible materials stored on site consist of propane, acetylene, gasoline, jet B fuel and diesel fuel. Propane and acetylene are supplied in 100 lb. cylinders and one 500 lb tank. All other fuels are contained in 45 gallon (202 l) barrels. The propane and fuel will be transported from Yellowknife via Twin Otter, Hercules DC3 or similar aircraft to the ice strip at Goose Lake. Fuel barrels and propane tanks will be transferred by hand or by mechanical equipment from the aircraft to the designated storage area north of the camp. See Figure 1 of Application Camp Questionnaire.

During the exploration program, fuel drums and propane tanks may be transport around the site using a helicopter long-line, a front-end loader, a Bombardier, a skimmer towed by a snow machine and trailer, or manually. Sufficient fuel for up to 48 hours of operation will be available at each drill rig. There will also be sufficient fuel supplies adjacent to each building structure for day-to-day camp operations. There will be a limited amount of fuel at the Goose Lake airstrip for occasional use by fixed wing planes. Helicopter refueling will be done directly from barrels located at the storage area on the helicopter pad.

A supply of spill absorbent is readily available at the site. Absorbents consist of sawdust, peat moss and synthetic material. Empty barrels and a pump will be available at the fuel storage area to be used for the transfer of fuel from any leaking container should this occur.

It is the policy of Kinross Gold Corporation to comply fully with existing regulations to provide such protection to the environment as is technically feasible and economically practical.

1) **RESPONSE ORGANIZATION** - The Project Manager is ultimately responsible for all activities, including spill response at the Goose Lake camp. In his absence, his designee would assume responsibility. Crews handling fuel and propane are instructed in the proper and safe handling of these materials and in fire and explosion prevention, and will constitute the initial response team should a spill of fuel occur, or a propane tank leak. Propane and acetylene are gases at normal air temperatures and pressures and will not be treated further in this plan.

2) **INITIAL ACTION** - The initial action required depends on where the spill or leak is located.

- ***Spill from a barrel within the designated fuel storage areas:***

- If a barrel is leaking, transfer the fuel into a non-leaking empty drum in the fuel storage area by means of a pump.
- Spread absorbent material on the spilled area to soak up any pooled spilled fluid. When the absorbent material is saturated, or the spill material is soaked into the absorbent material as much as it will be, then collect the absorbent material and place into a suitable, non-leaking container.
- Transport the container with the absorbent material with the collected material to the incinerator, or to the fuel storage area for storage until the incinerator is next operated.
- Any soil or earth effected by the spilled material should also be dug out and incinerated to burn off any volatile materials. Soil or earthen materials that have been incinerated such that all volatiles have been combusted shall be placed back on the fuel storage area and spread out to form part of the fuel storage pad.
- If the leak or spill was significant, report the spill to the Project Manager and complete a Spill Report Form. The Project Manager will report the spill, and actions taken to address it, to the Nunavut Water Board (NWB) and the Kugluktuk Angoniatit Association (KIA) at the number listed under, "Reporting Procedure".
- Mark the defective barrel and return to supplier once emptied of fuel or other material, or use to contain non-liquid, non-hazardous material.

- ***Spill or leak from a barrel outside of the designated fuel storage areas:***

- If a barrel is leaking, make every effort to orient the barrel so as to stop the leakage. For instance, if a bung is leaking tip the barrel upright. If a seam is leaking, orient the barrel so that the seam is upright and above the fuel level.
- If practical, transfer fuel or other material into another, non-leaking barrel or container using a pump.
- If practical, move the barrel to an area of secondary containment or where any leaking material will not flow to a watercourse.
- Spread absorbent material on the spilled area to soak up any pooled spilled fluid. When the absorbent material is saturated, or the spill material is soaked into the absorbent material as much as it will be, then collect the absorbent material and place into a suitable, non-leaking container.
- Transport the container with the absorbent material with the collected material to the incinerator, or to the fuel storage area for storage until the incinerator is next operated.

- Any soil or earth effected by the spilled material should also be dug out and incinerated to burn off any volatile materials. Soil or earthen materials that have been incinerated such that all volatiles have been combusted shall be placed back on the fuel storage area and spread out to form part of the fuel storage pad.
- If the leak or spill was significant, report the spill to the Project Manager and complete a Spill Report Form. The Project Manager will report the spill, and actions taken to address it, to the Nunavut Water Board (NWB) and the Kitikmeot Inuit Association (KIA) at the number listed under, "Reporting Procedure".
- Mark the defective barrel and return to supplier once emptied of fuel or other material, or use to contain non-liquid, non-hazardous material.

3.) REPORTING PROCEDURES – All spills must be reported to the Project Manager, who will then determine whether the spill was significant. The determination will be based upon the amount of fuel spilled and the location of the spill. For instance, a small amount of fuel spilled which has leaked towards a stream or lake containing fish is more significant than a larger volume spill which is contained with the fuel storage area and where the fuel is recovered.

Significant spills must be reported to the 24-hour Spill Report Line and to Kinross Corporate Office in Salt Lake City to John Bokich at (801) 517-1064 (Direct Office Line), or (801) 557-8200 (cellular phone).

- 1) Complete a Spill Report Form.
- 2) Call the NWT 24-hour spill report number (867) 920-8130 in Yellowknife, and report the spill using the information on the Spill Report Form.
- 3) Forward a copy of the Spill Report Form to:

Government of the Northwest Territories
Pollution Control Division
Yellowknife, Northwest Territories X1A 2L9

John Bokich, Manager, Environmental Compliance
Kinross Gold Corporation
185 South State Street, Suite 820
Salt Lake City, Utah 84111

- 4) Additional information or assistance may be obtained from John Bokich or:
Environment Canada, Yellowknife: (867) 873-3456

4. ENVIRONMENTAL MAP Figure 1 in the Remote Camp Supplementary Questionnaire shows the location of the existing as well as the proposed fuel storage area, the incinerator and the camp in respect to Goose Lake. All fuels will be stored within this area, at a distance of more than 100 metres from Goose Lake.

There are no parks, game preserves, known resource harvesting areas fish spawning areas or other environmentally sensitive areas within the immediate area of the designated fuel storage area.

**KINROSS GOLD CORPORATION - GOOSE LAKE PROJECT
INITIAL/CORPORATE SPILL NOTIFICATION FORM**

Location of Spill: _____

Material Spilled: _____

Estimated Quantity: _____

Date and Time of Spill: _____

Source and/or Cause of Incident: _____

1ST PERSON NOTIFICATION:

Reported by: _____ Reported to: _____

Date: _____ Time: _____

ENVIRONMENTAL PERSONNEL NOTIFICATION:

Reported by: _____ Reported to: _____

Date: _____ Time: _____

MINE MANAGER NOTIFICATION:

Reported by: _____ Reported to: _____

Date: _____ Time: _____

MINISTRY OF ENVIRONMENT NOTIFICATION:

Reported by: _____ Reported to: _____

Date: _____ Time: _____

CORPORATE NOTIFICATION:

Reported by: _____ Reported to: _____

Date: _____ Time: _____

Containment Efforts: _____

Property Damage: _____

Medium Affected (soil, water, etc.): _____

Comments and/or Additional Information: _____

FIGURE 1 - KINROSS GOLD CORPORATION



