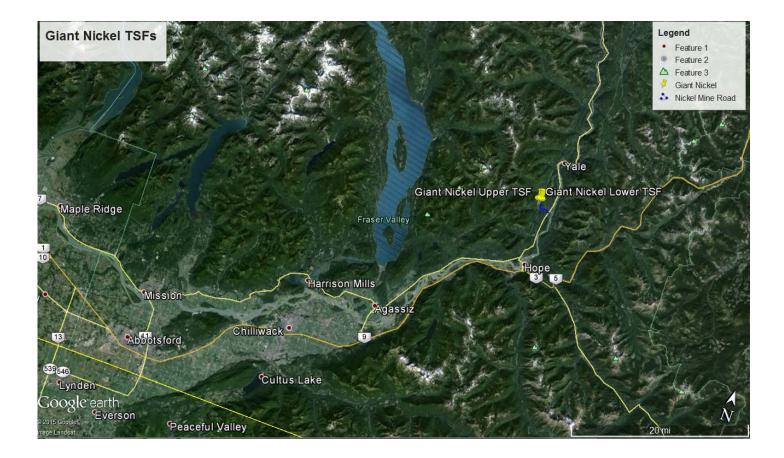
## **APPENDIX B**

Operation and Surveillance Plan (OMS)

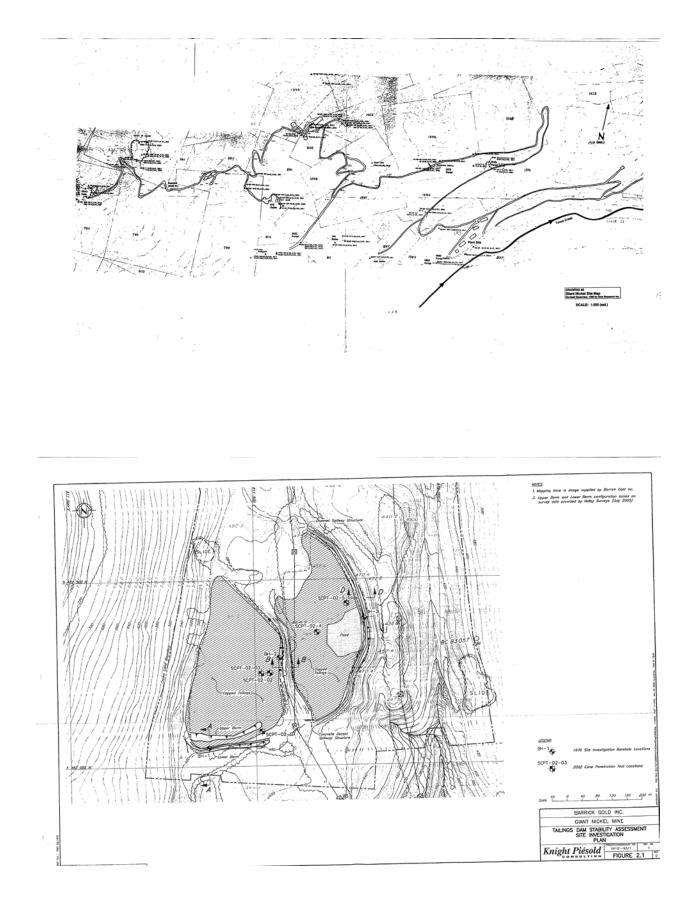
## **OPERATION, MAINTENANCE & SURVEILLANCE PLAN**

Dam Name: Giant Nickel Tailings Storage FacilityWater Licence No.: N/AOwner's Name: Barrick Gold Inc.Phone #: (250) 292-8295Stream Name: Texas Creek Reservoir Name: Giant Nickel Tailings Storage FacilityDam Location: Latitude: 49°29'01.19"N Longitude: 121°27'24.65"W





Location of the Giant Nickel Tailings Storage facilities





Giant Nickel Upper and Lower Tailings Storage Facilities

## LIST INDIVIDUALS WHO ARE RESPONSIBLE FOR:

<u>Name</u>	<u>Title</u>	<u>Phone #</u>	
Operation: Robbin Harmati	BC Properties Closure Manger	(604)575-4049	
Maintenance: Gary Douglas	Operations Manager	(250)292-8294	
Inspections: As Above 4 times/Year		as above	
Instrumentation: not applicable			
PHYSICAL DESCRIPTION:			
Dyke 1(one) Upper tailings			
Height: <u>17 meters</u> Dam Type: <u>Cross Valley Earthen Embankment</u>			
Length: 700 meters Crest Width:			
Dyke 2 (two) Lower tailings			
Height: <u>13 meters</u> Dam Type: <u>Cross Valley Earthen Embankment</u>			
Length: <u>675 meters</u> Crest Width:			
Reservoir Capacity: <u>184653 m3</u> Reservoir Area: <u>14.25 Ha</u>		5 Ha	
Spillway Capacity: <u>Open Channel</u> Design Flood Inflow: <u>623 mm</u>			
Watershed Area: <u>Dogwood V</u>	alley Purpose of Dam: <u>Tail</u>	Purpose of Dam: <u>Tailings Containment</u>	
Consequence Classification: Very High			

**ACCESS TO DAM:** (describe road access to dam from nearest center, attach map to this *Plan*)

<u>The property can be accessed by travelling north from Hope, BC, along Highway</u> <u>1 to Nickelmine Road. Travel is then by gravel road 4.5 km to the tailings area.</u>

**LIST SIGNIFICANT STRUCTURES DOWNSTREAM OF DAM:** (i.e., access road, railroad, subdivision etc.)

40 structures

Highway 1

CNR Bridge and rail line

LIST ALL HYDRAULIC WORKS: (i.e., spillway, outlet, stoplogs, gates, valves etc.

(include capacity, dimensions, locations etc.))

Channel Spillway

**LIST PROCEDURES FOR RESERVOIR OPERATION:** (i.e., how reservoir level is controlled? what is the anticipated reservoir level for any given time of year? when are the drawdown and filling periods? what are the operation procedures during floods?)

Currently the reservoir of the upper and lower TSF are being mechanically dewatered to permanently remove any ponding. It is expected that the dewatering will be complete by the end of July.

**LIST ALL ITEMS REQUIRING ROUTINE MAINTENANCE:** (include type of maintenance to be performed, scheduling of maintenance, record keeping, etc.)

Removal of brush is completed as required.

LIST ALL INSTRUMENTATION, FREQUENCY OF MONITORING, AND METHOD OF RECORD KEEPING: (i.e., seepage measurement weir, reservoir level gauge, piezometers, etc.)

Water samples collected 4 times per year

**LIST OF EQUIPMENT TO BE PERIODICALLY TEST OPERATED:** (i.e., gates, valves, hoists, etc. include frequency of test operation)

Not Applicable

LIST ALL COMPONENTS REQUIRING ROUTINE VISUAL INSPECTIONS:

(include schedule) (e.g. weekly, monthly, quarterly, annually etc.)

Spillway and slopes surrounding storage facility are visually inspected a least 4

times per year.

- 1) Late April/Early May
- 2) <u>June</u>
- 3) Late July/Early August
- 4) Late September/Early October

**ANNUAL FORMAL INSPECTIONS BY OWNER:** (include; time of year when performed, special items to be examined, reviewed, and/or test operated)

Formal Inspections are completed every one (1) year and Formal Dam Safety Reviews are complete every five (5) years by a qualified Engineer Inspections take place usually in the early fall months

## ATTACH THE FOLLOWING INFORMATION TO THIS PLAN:

- All dam design plans including as-built, if available.
- A location map showing the dam location relative to major roads and/or communities.
- All past inspection reports.
- An inspection checklist.
- A log showing repairs done and operating problems.