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November 30, 2018

Mackenzie Valley Land and Water Board

7<sup>th</sup> floor, 4922 48<sup>th</sup> Street, PO Box 2130

Yellowknife, NT, X1A 2P6

**Attention: Kierney Leach, Technical Regulatory Specialist**

Dear Kierney:

**Re: Submission of Type A Land Use and Type B Water License Applications for the Yellowknife City Gold Project (YCGP)**

TerraX Minerals Inc. is please to submit Type A Land Use Permit and Type B Water License Applications for its Yellowknife City Gold Project (YCGP). The YCGP is currently operating under two Land Use Permits, MV20140005 and MV20160038. These original two land use permits were sufficient when the YCGP covered approximately 225 square kilometers. However, through the staking of claims and completing the purchase or option of several properties from other owners the YCGP currently covers 782 square kilometers. This represents an increase in area of approximately 350%. In order to have the flexibility to conduct drilling on the expanded property it has become necessary for TerraX to acquire a single Type A Land Use Permit to cover the entire YCGP. In addition, the Type B Water License application will allow TerraX the flexibility to conduct more robust drill programs on the expanded property.

As part of this application please find enclosed:

- 1) MVLWB Type A Land Use Permit Application form
- 2) MVLWB Type B Water License Application forms
- 3) Yellowknife City Gold Project, NT, Exploration Plan
- 4) Yellowknife City Gold Project, NT, Spill Contingency Plan
- 5) Yellowknife City Gold Project, NT, MSDS Sheets
- 6) Yellowknife City Gold Project, NT, Waste Management Plan
- 7) Yellowknife City Gold Project, NT, Closure and Restoration Plan
- 8) Yellowknife City Gold Project, NT, Wildlife Management and Mitigation Plan
- 9) Yellowknife City Gold Project, NT, Chance Find Procedure for Archaeology
- 10) Yellowknife City Gold Project, NT, Forward Looking Engagement Plan
- 11) Yellowknife City Gold Project, NT, Community and Government Stakeholder Engagement Program

The YCGP is comprised of 164 mineral claims and 134 minerals leases. An additional four (4) mineral claims are currently part of the federally managed Giant Remediation Project, which TerraX does not have access to. These claims are Goodwin #1 (32956), Goodwin #10 (32959), Goodwin #11 (32960) and Goodwin #12 (32961). These claims are not part of this Type A Land Use Permit application. Once the federally managed Giant Remediation



Project has resolved the status of these four claims TerraX will amend the Type A Land Use Plan accordingly in regard to these four mineral claims.

TerraX requests that the new Type A Land Use Permit, if issued, contain all the activities that are currently authorized under Land Use Permits MV2014C0005 and MV2016C0038. Additionally, based on the experience gained while working under the current Type A Land Use Permit conditions TerraX would like to request consideration from the Board for the following modifications to the conditions of a new Land Use Permit, if issued:

- 1) The current Land Use Permits have a buffer from 30 metres (MV2014C0005) to 300 metres (MV2016C0038) when conducting any part of the land use operation near “any privately owned or leased land or structure.” TerraX would like to recommend modifying this buffer to “within 50 metres of any leased land or structure.” The duration of all activities, in particular drilling, is relatively short and ranges from a few days to a couple of weeks. The impacts observed by TerraX have been minimal. The best evidence for this has been the co-operation between TerraX and the cabin owners on Walsh Lake while completing summer drilling and winter ice road construction / drilling programs over the 2016 to 2018 period using the 30 metre condition of land use permit MV2014C0005.
- 2) The majority of the exploration activity, in particular, the drilling will be conducted in the areas covered by the current permits. In these areas all personnel are accommodated locally in Yellowknife and are transported to the exploration areas by truck, boat, helicopter, UTV or ATV. Therefore, no temporary or permanent camp facilities are required. However, temporary and permanent camp facilities will be required on the far northern portion of the property in the Quyta Lake to Clan Lake area. TerraX would like to request that the Board include in the scope of the land use permit, if issued, authorization to establish and use campsites. The details of any camp would be submitted to the Land Use Inspector and the Board well in advance of any camp construction and without requiring an amendment to the new Land Use Permit, if issued. Five (5) potential campsite (not to exceed 49 persons) locations were identified by TerraX personnel and the Land Use Inspector in September, 2018. It is important to note that not all or any of the five (5) campsites would be utilized at one time. The timing and requirement for any campsite will depend on successful exploration results throughout the claim block. The five (5) chosen potential campsite locations are all sandy ridges with good drainage adjacent to lakes with deep enough water for float planes to land safely. Additional details are expanded upon in the attached Exploration Plan. The timing for the requirement of a permanent camp will be dependant on results.
- 3) Notwithstanding 2) above TerraX continue to be allowed, as authorized under current Land Use Permits MV2014C0005 and MV2016C0038, to use temporary campsites of up to 200-person days on an annual basis. TerraX requests that these temporary campsites be considered separately from the larger, more permanent campsites that would not exceed 49 persons.

Based on the experience gained while working under the current Type A Land Use Permit conditions TerraX would like to request consideration from the Board that the following conditions be part of a new Type B Water License, if issued:

- 1) The Water Inspector be notified with the following information 48 hours prior to the commencement of the drill hole(s):
  - Lake name that is being used as a water source



- 
- Location of the drill hole(s)
  - Location of water pump
- 2) A monthly report on water usage report be provided to the Water Inspector that contains the following information:
- Lake name that is being used as a water source
  - Water pump locations
  - Water volume that was removed from each lake
  - Estimated volume of the lake being used as a water source

Based on the experience gained while working under the current Type A Land Use Permit conditions TerraX would like to request consideration from the Board for the following condition to remain unchanged in the new Land Use Permit, if issued:

- 1) Not operating any vehicle or equipment within 30 metres of a known or suspected historical or archaeological site or burial ground is a condition of land use permits MV2014C0005 and MV2016C0038.

TerraX has been in discussions with the GNWT regarding security related to the Type A Land Use Permit and Type B Water License applications. There have been face to face meetings on November 26<sup>th</sup> at an RDAG meeting and November 29<sup>th</sup> with Lands and Environment Departments. These discussions will continue during the week of December 3<sup>rd</sup> to December 7<sup>th</sup> with the goal of determining the amount of security. In addition, TerraX and the GNWT are also discussing how the security can be staged based on specific milestones. This would allow TerraX to post amounts relevant to the liabilities associated with the work activity related to the new Type A Land Use Permit and Type B Water License, if issued. The security would increase with the liability associated with each milestone.

On behalf of TerraX Minerals Inc. I would like to thank the Board for considering our Type A Land Use Permit and Type B Water License applications.

Regards,

Alan Sexton, M.Sc., P.Geol.

VP Exploration

TerraX Minerals Inc.



# Mackenzie Valley Land and Water Board

7th Floor - 4922 48th Street, PO Box 2130

Yellowknife, NT. X1A 2P6

☎ 867-669-0506

☎ 867-873-6610

🌐 mvlwb.com

## Water Licence Application Form

(Subsection 6(1) of the Northwest Territories Water Regulations)

APPLICATION/LICENCE NO: \_\_\_\_\_

(Amendment or Renewal only)

### 1. NAME AND MAILING ADDRESS OF APPLICANT

Applicant's Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

Community \_\_\_\_\_

Prov/Terr \_\_\_\_\_ Postal Code \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_ Other \_\_\_\_\_

### 2. ADDRESS OF HEAD OFFICE IN CANADA IF INCORPORATED

Mailing Address \_\_\_\_\_

Community \_\_\_\_\_

Prov/Terr \_\_\_\_\_ Postal Code \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

### 3. LOCATION OF UNDERTAKING

(Describe and attach a map, indicating watercourses and location of any proposed waste deposits)

Longitude \_\_\_\_\_ Latitude \_\_\_\_\_

**4. DESCRIPTION OF UNDERTAKING**

(Describe and attach plans)

**5. TYPES OF UNDERTAKING**

**6. WATER USE**

**7. QUANTITY OF WATER INVOLVED**

(Litres per second, litres per day or cubic metres per year, including both quantity to be used and quantity to be returned to source)

**8. WASTE DEPOSITED**

(Quantity, quality, treatment and disposal)

**9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING**

(Give name, mailing address and location; attach list if necessary)

**10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION**

**11. CONTRACTOR AND SUB-CONTRACTORS**

(Names, addresses and functions)

**12. STUDIES UNDERTAKEN TO DATE**

(Attach list if necessary)

**13. PROPOSED TIME SCHEDULE**

Start Date:

Completion Date:

\_\_\_\_\_  
Name (Print)

\_\_\_\_\_  
Title (Print)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

***FOR OFFICE USE ONLY***

Application Fee      Amount: \_\_\_\_\_      Receipt No.: \_\_\_\_\_

Water Use Deposit      Amount: \_\_\_\_\_      Receipt No.: \_\_\_\_\_

*Please make all cheques payable to the Receiver General for Canada.*

# Mining Exploration/Development Questionnaire to Accompany Water Licence Applications to the Mackenzie Valley Land and Water Board



**Mackenzie Valley Land and Water Board**  
**7th Floor - 4910 50th Avenue**  
**P.O. Box 2130**  
**YELLOWKNIFE NT X1A 2P6**  
**Phone (867) 669-0506**  
**FAX (867) 873-6610**

*Regulating the use of land and waters and the deposit of waste, and enabling residents to participate in the management of resources to provide optimum benefit to the residents of the settlement areas and of the Mackenzie Valley and to all Canadians.*

**October 2003**

## ***Mining Exploration and Development Questionnaire***

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The purpose of this questionnaire is to solicit supplemental information from an Applicant to support his/her application for a water licence (or renewal). It is anticipated that the completion of this questionnaire will reduce delays arising from the Board's having to solicit additional information after an application has already been submitted. This information will also be useful during the pre-screening of your application, which must be undertaken prior to development and approval of a water licence to determine if the project needs to be referred to the Environmental Impact Review Board.

The Applicant should complete the questionnaire to the best of his/her ability, recognizing that some questions may not be relevant to the project under consideration. For questions that do not relate to his/her operation, the applicant is requested to indicate "N/A" (Not Applicable).

If any questions arise while completing the questionnaire, the Applicant may wish to contact the Mackenzie Valley Land and Water Board at (867) 669-0506.

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# ***Mining Exploration and Development Questionnaire***

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Please Print Or Type Your Responses.

## **NOTES:**

If space is insufficient for any of the responses on this questionnaire, use the back of the sheet or an attachment.

A number of sections in the questionnaire solicit information on water quality and waste management which must be provided in accordance with specific policies and guidelines: the Board's *Water and Effluent Quality Management Policy*; the Board's *Guidelines for Developing a Waste Management Plan*; and INAC's *Guidelines for Spill Contingency Planning*. The Board's policies and guidelines are accessible at [www.mvlwb.com](http://www.mvlwb.com) or by calling the Board. INAC's *Guidelines for Spill Contingency Planning* are available at <http://www.ainc-inac.gc.ca/ai/scr/nt/pdf/SCP-EUD-eng.pdf>). Please provide separate plans and/or reports to address these information requirements as part of the completed application package. Reference the relevant title(s) of the plans and/or reports in the body of the questionnaire.

## **Section 1 -- General**

**Date: November 30, 2018**

**1.1 Applicant TerraX Minerals Inc. 604-689-1749**  
**(company, corporation, owner) (telephone number)**  
**1605-777 Dunsmuir St., Vancouver, BC, V7Y 1K4**  
**(postal address)**

**Project name: Yellowknife City Gold Project**

**Location: Immediately north, south and east of City of Yellowknife**

**Closest community: Yellowknife**

**Latitude/Longitude: 62 20' 00"N to 62 58' 00"N / 114 05' 00"W to 114 32' 00"W**

**1.2 Environmental Manager or Project Manager Alan Sexton**  
**(name)**  
**867-335-1880**  
**(telephone no.)**  
**VP Exploration**  
**(title)**

**1.3 Indicate the status of the exploration activity on the date of application. (Check the appropriate space.)**

Design \_\_\_\_\_

Under construction \_\_\_\_\_

In operation X\_\_\_\_\_

Suspended \_\_\_\_\_

## ***Mining Exploration and Development Questionnaire***

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Abandoned \_\_\_\_\_

- 1.4 If a change in the status of the exploration activity is expected, indicate the nature and anticipated date of such change.**

No significant change is expected

- 1.5 Indicate the present (or proposed) schedule for the exploration activity.**

hours per day 24\_\_\_\_\_

days per week 7\_\_\_\_\_

weeks per year 36\_\_\_\_\_

number of employees 25\_\_\_\_\_

- 1.6 Estimate the term (life) of the exploration activity.**

5 years (+ 2 year extension) (months/years)

- 1.7 Attach a detailed map drawn to scale showing the relative locations (or proposed locations) of the exploration activity, sewage and solid waste facilities, and containment areas. The plan should include the water intake and pumphouse, fuel and chemical storage facilities, ore and waste rock storage piles, piping distribution systems, and transportation access routes around the site. The map also should include elevation contours, water bodies and an indication of drainage patterns for the area. See attachments**

See attachments.

- 1.8 If applicable, provide a brief history of property development that took place before the present company gained control of the site. Include shafts, adits, mills (give rated capacity, etc.), waste dumps, chemical storage areas, tailings disposal areas and effluent discharge locations. Make references to the detailed map.**

This is still an exploration project for gold and base metals. There has been no mining or production infrastructure.

- 1.9 Give a short description of the proposed or current freshwater intake facility, the type and operating capacity of the pumps used, and the intakes screen size**

Fresh water will be required to operate exploration drill equipment. Drill pumps will use 1.5" diameter water lines feeding the drills directly in summer conditions and through coil stoves in winter conditions. The water consumption per drill per day in the summer will be 30 cubic meters and the water consumption per drill per day in the winter will be 40 cubic meters. The intake lines for the water pumps will be screened according to DFO recommendations. The DFO protocol for winter water withdrawal from ice-covered water bodies in the Northwest Territories will be followed during winter drilling from lakes.

## **Mining Exploration and Development Questionnaire**

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- 1.10 At the rate of intended water usage for the exploration activity, explain water balance inputs and outputs in terms of estimated maximum draw down and recharge capability of the water source from which fresh water will be drawn.**

The fresh water drawn will be utilized to support exploration drilling on the YCGP.

- 1.11 Will any work be done that penetrates regions of permafrost?**

There is limited permafrost on the YCGP. Local areas of discontinuous permafrost occur in the upper 3 to 5 metres of low-lying swampy areas. No drilling to date has intersected significant permafrost.

- 1.12 If "Yes" above, is the permafrost continuous or discontinuous?**

There is limited permafrost on the YCGP. Local areas of discontinuous permafrost occur in the upper 3 to 5 metres of low-lying swampy areas. No drilling to date has intersected significant permafrost.

- 1.13 Were (or will) any old workings or water bodies (be) dewatered in order to conduct the exploration activity?**

No

- 1.14 If "Yes" above, indicate the name of the waterbody, the total volume of water to be discharged and the chemical characteristics of that water.**

Water body \_\_\_\_\_

Total volume \_\_\_\_\_ m<sup>3</sup>

Receiving watercourse \_\_\_\_\_

Dewatering flow rate into above \_\_\_\_\_ m<sup>3</sup>/sec

**Chemical characteristics of discharge:**

T/Pb	_____ mg/L	Total ammonia	_____ mg/L
T/Cu	_____ mg/L	Suspended solids	_____ mg/L
T/Al	_____ mg/L	Specific conductivity	_____ uhmo/cm
T/HCN	_____ mg/L	Ph	_____
T/Zn	_____ mg/L	Oil and grease	_____ mg/L
	T/Cd	_____ mg/L	
	T/As	_____ mg/L	
	T/Ni	_____ mg/L	
	T/Mn	_____ mg/L	

- 1.15 Was (or will) the above discharge (be) treated chemically?**

Yes \_\_\_\_\_

No \_\_\_\_\_

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1.16 If "Yes" above, describe the applied treatment.

1.17 Briefly describe what will be done with the camp sewage.

N/A

### **Section 2 -- Geology and Mineralogy**

2.1 Briefly describe the physical nature of the mineralization, including known dimensions and approximate shape.

The gold mineralization occurs as quartz-sulphide-gold veins hosted in shear zones that occur within mafic volcanic rocks, gabbro dykes and felsic porphyry dykes. The gold mineralized shear zones are 30 to 300 metres in length, 1 to 5 metres wide and 50 to 250 metres deep.

2.2 Briefly describe the host rock in the general vicinity of the mineralization (from the surface to the mineralised zone).

The host rocks consist of Archean age mafic volcanic rocks, gabbro dykes and felsic porphyry dykes that have been metamorphosed to greenschist and amphibolite grade.

2.3 Provide a geological description of the mineralised zone. (If possible, include the percentage of metals.)

The gold mineralization occurs as quartz-sulphide-gold veins hosted in shear zones. The sulphide minerals consist of arsenopyrite (1-5%), pyrite (1-3%), pyrrhotite (1-2%), galena (1-2%), sphalerite (1-2%) and scheelite (<1%).

2.4 Describe the geochemical tests which have been (or will be) performed on the ore, host rock, and waste rock to determine their relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (i.e. static, kinetic tests).

N/A

2.5 Estimate the percentage of sulphides in the mineralization:

pyrite 1-3% \_\_\_\_\_

pyrrhotite 1-2% \_\_\_\_\_

pyrite/pyrrhotite mixture 1% \_\_\_\_\_

arsenopyrite 1-5% \_\_\_\_\_

### **Section 3 -- Exploration Operation**

3.1 Check off the type (or proposed type) of exploration operation that will be used on the property and briefly describe the method in more detail.

a) Reverse circulation to obtain bulk sample \_\_\_\_\_

**Mining Exploration and Development Questionnaire**

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- b) Trenching \_\_\_\_\_
- c) Conventional open pit \_\_\_\_\_
- d) Decline \_\_\_\_\_
- e) Conventional underground \_\_\_\_\_
- f) Strip mining activity \_\_\_\_\_
- g) Other exploration activity (please explain)      **See attached documents.**

**3.2** Indicate the size and number of samples that will be obtained. N/A

\_\_\_\_\_ tonnes  
 \_\_\_\_\_ number of samples

Please note if smaller samples are to be taken from different areas (note where) to form one large bulk sample.

N/A

**3.3** Indicate the *present or proposed average* rate of exploratory production from all mineralised sources on the property:

N/A \_\_\_\_\_ tonnes ore/day

The YCGP is still in the early stages of mineral exploration and as such is not producing any ore or conducting any mining or milling operations.

**3.4** Outline the water usage (or proposed water usage) in the exploration activity, indicating the source and volume of water for each use.

	Source	Use	Volume (m <sup>3</sup> /day)
1.	Numerous Lakes	Drilling	up to 299 cubic metres
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____

**3.5** If applicable, indicate or estimate the volume of natural groundwater presently gaining access to the mine workings.

N/A \_\_\_\_\_ m<sup>3</sup>/day

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**3.6 If applicable, outline methods used underground or on surface to decrease minewater flow. (i.e., recycling)**

N/A

The YCGP is still in the early stages of mineral exploration and as such is not producing any ore or conducting any mining or milling operations.

**3.7 List the brand names and constituents of the drill additives to be used.**

See the MSDS information in the Spill Contingency Plan attached to this application.

### **SECTION 4 -- THE MILL OR PROCESSING PLANT**

**4.1 Is there (or will there be) a portable mill or processing plant being operated on the property in conjunction with the exploration activity?**

\_\_\_\_\_ Yes                      X \_\_\_\_\_ No

**4.2 If "Yes", indicate the proposed point of discharge for the mill or process plant water and the volume of the discharge.**

Point of discharge \_\_\_\_\_

Volume of \_\_\_\_\_ m<sup>3</sup>/day

**4.3 Attach a copy of the portable mill or processing plant flow sheet. Indicate the points of addition of all the various reagents (chemicals) that are (or will be) used.**

**4.4 Indicate the proposed rate of milling.**

X \_\_\_\_\_ not applicable (check) OR \_\_\_\_\_ tonnes/day

**4.5 List the types and quantities of all reagents used in the mill or processing plant (in kg/tonne ore milled).**

<b>Reagent</b>	<b>Amount in kg/tonne ore milled</b>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**4.6 If applicable, is the (proposed) milling circuit based on autogenous grinding?**

Yes \_\_\_\_\_ No \_\_\_\_\_ Partially \_\_\_\_\_

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**4.7** Based on present production or bench test results, describe the chemical and physical characteristics of liquid mill or processing plant wastes directed to the tailings deposition area.

T/Cu	_____	mg/L	Total ammonia	_____	mg/L
T/Pb	_____	mg/L	Suspended solids	_____	mg/L
T/Zn	_____	mg/L	Specific conductivity	_____	uhmo/cm
T/Ag	_____	mg/L	pH	_____	
T/Mn	_____	mg/L	Alkalinity	_____	CaCO <sub>3</sub> /L
T/Ni	_____	mg/L	Hardness	_____	mg/L
T/Fe	_____	mg/L	Total cyanide	_____	mg/L
T/Hg	_____	mg/L	Oil and grease	_____	mg/L
T/As	_____	mg/L			
T/Cd	_____	mg/L			
T/Cr	_____	mg/L			
T/Al	_____	mg/L			

**4.8** Provide a geochemical description of the solid fraction of the tailings.

Cu	_____	mg/g	Al	_____	mg/g
Pb	_____	mg/g	Fe	_____	mg/g
Zn	_____	mg/g	Hg	_____	mg/g
Ag	_____	mg/g	Ni	_____	mg/g
Mn	_____	mg/g	As	_____	mg/g
Cr	_____	mg/g	CN	_____	mg/g
Cd	_____	mg/g			

### Section 5 -- The Containment Areas

**5.1** What is the (proposed) method of disposal of the minewater, mill or process plant tailings (i.e., sump, subaqueous, surface tailings pond, settling pond)?

N/A. The YCGP is still in the early stages of mineral exploration and as such is not producing any ore or conducting any mining or milling operations.

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**5.2 Attach detailed scale plan drawings of the proposed (or present) containment area. The drawings must include the following:**

- (a) Details of pond size and elevation;
- (b) Details of all retaining structures (length, width, height, materials of construction, etc.);
- (c) Details of the drainage basin;
- (d) Details of all decant, siphon mechanisms etc., including water treatment plant facilities;
- (e) Details with regard to the direction and route followed by the flow of wastes and/or waste waters from the area; and
- (f) Indications of the distance to nearby major watercourses;

**5.3 Justify your choice of location for the containment area design by rationalizing rejection of other options. Consider the following criteria in your comparisons:**

Subsurface strata permeability, abandonment, recycling/reclaiming waters, and assessment of runoff into basins.

**Attach a brief summation.**

**5.4 The *average depth of the existing or proposed* containment area is \_\_\_\_\_ m.**  
N/A containment is not required.

**5.5 Indicate the total capacity for the *existing or proposed* containment area by using water balance and stage volume calculations and curves. (Attach a description of inputs and outputs along with volume calculations).**

N/A containment is not required.

**5.6 Has any evaporation and/or precipitation data been collected at this site? \_\_\_\_\_**  
**If so, please include the data.**

**5.7 Will the *present or proposed* containment area contain the entire production from the mill or processing plant complex for the life of the project?**

N/A containment is not required.

**5.8 Will the proposed tailings deposition area engulf or otherwise disturb any existing watercourse?**

N/A containment is not required.

**5.9 If "Yes", attach all pertinent details (name of watercourse, present average flow, direction of flow, proposed diversions, etc).**

**5.10 Describe the proposed or present operation, maintenance, and monitoring of the containment area.**

N/A containment is not required.



## ***Mining Exploration and Development Questionnaire***

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### **Section 6 -- Water Treatment**

- 6.1** If applicable, will the minewater, mill, or process plant water be chemically treated before being discharged to the containment area? If so, explain the treatment process (attach flow sheet if available).

N/A there is no mining activity associated with the YCGP.

- 6.2** Will (treated) effluent be discharged directly to a natural waterbody or will polishing or settling ponds be employed? Describe location, control structures, and process of water retention and transfer. Attach any relevant design drawings.

N/A containment is not required.

- 6.3** Name the first major watercourse the discharge flow enters after it leaves the area of company operations.

Yellowknife River

### **Section 7 -- Environmental Monitoring Program**

- 7.1** Has any baseline data been collected for the main water bodies in the area prior to development?

The YCGP is not currently under development and is at the grass roots stage of exploration. Archaeology data has been collected. See the Exploration Plan that is attached to this application.

- 7.2** If "Yes", include all data gathered on the physical, biotic and chemical characteristics at each sampling location, identify sampling locations on a map.

- 7.3** Provide an inventory of hazardous materials on the property and storage locations. (attach separate map)

See the MSDS information in the Spill Contingency Plan attached to this application.

### **Section 8 -- Pre-screening**

In addition to providing sufficient technical and related information for licencing to proceed, Applicants must provide adequate descriptive information to ensure that a pre-screening decision can be made prior to a project's proceeding for regulatory approvals. Our application and other project details, such as this questionnaire, will be sent out for review by local Aboriginal groups, as well as territorial and federal government agencies. Their comments (e.g., regarding the significance of project impacts) are considered before a decision is made to allow the project to proceed

- 8.1** Has this project ever undergone an initial environmental review, including previous owners?

Yes      \_\_\_\_\_      By whom/when      \_\_\_\_\_

No      X \_\_\_\_\_      Unknown      \_\_\_\_\_

- 8.2** Has any baseline data collection and evaluation been undertaken with respect to the various

**Mining Exploration and Development Questionnaire**

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biophysical components of the environment potentially affected by the project (e.g., wildlife, soils, air quality), in addition to water related information requested in this questionnaire?

Yes \_\_\_\_\_ No  \_\_\_\_\_ Unknown \_\_\_\_\_

**8.3 If "Yes", please attach copies of reports or cite titles, authors and dates.**

See the attached documents that are part of this application

**8.4 If "No", are such studies being planned? Briefly describe the proposals.**

**8.5 Has authorization been obtained or sought from the Department of Fisheries and Oceans for dewatering or using any water bodies for containment of waste?**

N/A there are no dewatering or waste containment activities associated with the YCGP.

**8.6 Has a socio-economic impact assessment or evaluation of this project been undertaken? (This would include a review of any public concerns, land, water, and cultural uses of the area, implications of land claims, compensation, local employment opportunities, etc.)**

Yes \_\_\_\_\_ No  \_\_\_\_\_ Unknown \_\_\_\_\_

**8.7 If "Yes", please describe the proposal briefly.**

**8.8 If "No", is such a study being planned?**

Yes  \_\_\_\_\_ No \_\_\_\_\_

**Section 9 – List of Attachments**

	Reference to question #	Title	Number of pages
1.	1.7 _____	Exploration Plan _____	31 _____
2.	3.7 and 8.3 _____	Spill Contingency Plan _____	15 _____
3.	7.3 _____	Spill Contingency Plan _____	15 _____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____



## Yellowknife City Gold Project Consultants and Contractors List

Golder Associates – Yellowknife based environmental consultants

ERM – Yellowknife based environmental consultants

Aurora Geosciences – Yellowknife based geological technicians, field assistants and geophysical technicians

Aurora Telecom Services Ltd. – Yellowknife based contractor for ice road construction

62 Degrees North – Yellowknife based contractor for medics and first aid equipment

Foraco Drilling – Yellowknife based drilling contractor

Acasta Heliflight - Yellowknife based contractor that provides helicopter support for drilling and geoscience field work

KBL Environmental Ltd. - Yellowknife based contractor that provides environmental remediation

Matrix Expediting - Yellowknife based contractor that builds, maintains and expedites to exploration camps

GeoVector Management Inc. – Ottawa based consultant that provides project management, geologists and geological technicians

TerraX Minerals Inc. – Vancouver based junior mining company that provides project management

Alan Sexton, M.Sc., P.Geol.

VP Exploration

TerraX Minerals Inc.