# 1AR-NAN1419 Application for Water Licence Amendment

**Canzinco Mines Ltd.** 

20 June 2019



# **Application for Water Licence Amendment**

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## DOCUMENT MANAGEMENT

Original Document Date: April 2010

## **DOCUMENT AMENDMENTS**

	Description	Date	
(1)	Updated for public distribution as separate document	June 2010	
	from NWB Guide 7		
(2)	Updated NWB logos and reformatted table to allow rows	May 2011	
	to break across page		
(3)	New NWB logo; request for background information; and	April 2013	
	change to Block 24		
(4)			
(5)			
(6)			
(7)			
(8)			
(9)			
(10)			



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### APPLICATION FOR WATER LICENCE AMENDMENT

The applicant is referred to the NWB's Guide 7: Licensee Requirements Following the Issuance of a Water Licence for more information about this application form.

Where possible, provide background information regarding the original licence application or attach previously submitted information.

#### **EXISTING LICENCE NO: 1AR-NAN1419**

#### 1. LICENSEE CONTACT INFORMATION

Is the licensee the same as that referred to on the existing licence? Yes

#### 2. LICENSEE REPRESENTATIVE CONTACT INFORMATION - If different from Block 1.

Name: Johan Skoglund

Address: Canzinco Mines Ltd, c/o Nyrstar, Tessinerplatz 7, 8002 Zurich, Switzerland

Phone: +41 44 745 8210 Fax: +41 44 745 8110

e-mail: johan.skoglund@nyrstar.com

Johan Skoglund is authorized to act on behalf of Canzinco Mines Ltd. Please refer to Appendix C for an authorization letter.

#### NAME OF PROJECT 3.

Has the name of the project changed? No

#### 4. **LOCATION OF UNDERTAKING**

Does the proposed amendment change the location of the amended undertaking? No

Provide the project extents and camp locations. Identify proposed changes.

Project Extents
Latitude: (73°02' N) Longitude: (84°32' W)
Camp Location(s)
N/A. There is no camp associated with the former Nanisivik mine.
5. MAP
Does the proposed amendment change the locations of any of the main components of the undertaking?  No
A site Location Map is attached in Appendix D. The location of the undertaking remains the same as under the existing licence.
NTS Map Sheet No.: 48 C/02
6. NATURE OF INTEREST IN THE LAND
Does the proposed amendment change the nature of the interest in the land? No
boes the proposed amendment change the nature of the interest in the land:
Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).
Sub-surface
☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)  Date (expected date) of issuance: Date of expiry:
☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)  Date (expected date) of issuance: Date of expiry:
Surface
☑ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC). Canzinco holds several surface leases issued by INAC. The leases have expired but have not been surrendered. Canzinco is working with the Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) to consolidate and establish surface leases appropriate to the ongoing monitoring activities completed under licence 1AR-NAN1419. Lease No. 48 C/1-5-2 Date of issuance: 8 Aug 1984 Date of expiry: 31 May 2004 Lease No. 48 C/1-6-2 Date of issuance: 4 May 1987 Date of expiry: 31 Oct 2006 Lease No. 48 C/1-7-2 Date of issuance: 4 May 1987 Date of expiry: 31 Oct 2006 Lease No. 48 C/1-8-13 Date of issuance: 1 Jan 2003 Date of expiry: 31 Dec 2007 Lease No. 48 C/1-9-3 Date of issuance: 1 Jan 2003 Date of expiry: 31 Dec 1999 □ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA) Date of expiry:
☐ IOL Authorization from Kiyallig Inuit Association (KiylA)

Date (expected date) of is	ssuance:	Date of expiry:		
☐ IOL Authorization from	Qikiqtani Inuit Assoc	iation (QIA)		
Date (expected date) of is	ssuance:	Date of expiry:	- <del></del>	
☑ Commissioner's Land	Use Authorization			
Canzinco leases on Com	missioner's Land are	listed below. Attemp	ots to surrender these leases	
have been made but, to o	have been made but, to date, these have not been successful. Renewed efforts to cancel the			
leases which are not requ	uired for Canzinco's or	ngoing monitoring a	ctivities will be made.	
Lease No. <u>L-8008T</u>	Date of issuance:	1 Sept 1989	Date of expiry: 01 Sept 2019	
Lease No. <u>L-8677T</u>	Date of issuance: 2		Date of expiry: 31 Dec 2010	
Lease No. L-40041T	Date of issuance:		Date of expiry: 31 Dec 1999	
Lease No. L-40042T	Date of issuance:		Date of expiry: 31 Dec 1999	
Lease No. L-40043T	Date of issuance:		Date of expiry: 31 Dec 1999	
Lease No. LC-40044T	Date of issuance:		Date of expiry: 31 Dec 1999	
Lease No. LC-40163T	Date of issuance:		Date of expiry: 31 Dec 1999	
Lease No. L-2455T	Date of issuance:		Date of expiry: 31 May 1994	
<u>Lease No. <u>L 24001</u></u>	Date of loodaffee.	1 0dilo 1070	Dute of expiry.	
☐ Other				
Date (expected date) of is	ssuance:	Date of expiry:		
,		,		
Is the name of the entity(s) holding	ng authorizations the	same as that consid	lered in the existing water	
licence? Yes			ŭ	
7		DETERMINATION		
7. NUNAVUT PLANNING C	COMMISSION (NPC)	DETERMINATION		
Indicate the land use planning ar	ea in which the existir	ng project is located		
V 11 5 60				
X North Baffin	_	ewatin		
South Baffin	_	nikiluaq		
Akunniq Akunniq	∐ We	st Kitikmeot		
Does the proposed amendment of	change the land use p	olanning area? No		
If yes, indicate the land use plani	ning area in which the	amended undertak	ing is located.	
	☐ Ke	ewatin		
☐ South Baffin	Sa	nikiluaq		
☐ Akunniq	□We	est Kitikmeot		
	_			
Was a land use plan conformity	Was a land use plan conformity determination required from NPC prior to the issuance of the existing water			
licence?			3	
Yes. A land use conformity dete	ermination was issued	by NPC on 19 June	e 2008. For the 2019 licence	
application, the NPC issued correspondence on May 24, 2019, indicating that the proposed renewal application did not change the scope of the originally reviewed project to the extent that it would warrant a				
further review by the NPC. The N				
refer to Appendix E for copies of	-		The state of the s	
Terer to Appendix E for copies of	the combining determ	ilination and corresp	DOTIGETICE WITH THE INFO.	
Does the proposed amendment	change the original N	NPC conformity dete	ermination or the need to obtain one?	

No. Please refer to NPC communications in Appendix E.

## 8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Was a screening determination required from NIRB prior to the issuance of the existing water licence? Yes

The original Canzinco Ltd. "Closure and Reclamation Plan for the Nanisivik Mine" project proposal (NIRB File No.: 02MC117) was screened by the NIRB. A screening decision issued on 7 October 2002 determined that the proposed project could proceed subject to the NIRB's recommended project-specific terms and conditions. The screening decision is enclosed as Appendix F.

Canzinco's 2008 and 2014 water licence renewal applications were reviewed by the NIRB and found to be exempt from the requirement for further screening subject to the terms and conditions recommended in the original 7 October 2002 Screening Decision Report. Please refer to Appendix G for the Screening Exemption Decision issued by the NIRB on May 28, 2014.

Does the proposed amendment change the original NIRB screening determination or the need to obtain one? No

#### 9. DESCRIPTION OF UNDERTAKING

Does the proposed amendment change the description of the undertaking? Yes

The undertakings authorized through Water Licence 1AR-NAN1419 are described as: "Closure and Reclamation and Post-Closure Monitoring". The closure and reclamation works carried out under the 2014 licence – involving the remediation of petroleum hydrocarbon contaminated soil at the docksite – were finalised in 2017 and current activities are limited to post-closure monitoring of water quality and geotechnical stability. Hence, no additional closure and reclamation work is expected and the purpose of the current application is to seek permission to continue post-closure monitoring of water quality and geotechnical stability at the reclaimed site.

Several amendments to the post-closure monitoring program are proposed in light of the successful results achieved to date. The proposed changes are described in two memos prepared by BGC Engineering and Stantec Consulting and enclosed as Appendices H and I, respectively.

The application does not propose any changes to the licensee or the location of the undertakings and does not affect water rights or licences held by others.

Canzinco proposes that the amended Water Licence be issued for a term of ten years.

#### 10. OPTIONS

Does the proposed amendment change any of the alternative methods and locations that were considered to carry out the project? **No** 

Provide a brief explanation of the alternative methods or locations that were considered to carry out the

project.	Identify proposed changes.	
	oject involves post-closure monitoring of completed reclans are available for consideration.	amation works. No alternative methods and
11.	CLASSIFICATION OF PRIMARY UNDERTAKING	
Indica boxes	te the primary classification of undertaking for the ex	cisting licence by checking one of the following
	<ul> <li>☑ Industrial</li> <li>☑ Mining and Milling (includes exploration/drilling/expl</li> <li>☑ Conservation</li> <li>☑ Municipal (includes camps/lodges)</li> <li>☑ Power</li> </ul>	☐ Agricultural oration camps) ☐ Recreational ☐ Miscellaneous (describe below):
Does t	he proposed amendment change the classification of pr	imary undertaking? No
If Yes,	indicate the primary undertaking of the amendment:	
submi	ation in accordance with applicable Supplemental Informatted with an Application for Amendment. Indicate which Hydrostatic Testing Tannery Tourist / Remote Camp Landfarm & On-Site Storage of Hydrocarbon Conta Onshore Oil and Gas Exploration Drilling Mineral Exploration / Remote Camp Advanced Exploration   Mine Development Municipal General Water Works Power	SIG(s) are applicable to your application. None
12.	WATER USE	
Does t	☐ To cross a watercourse ☐ To	divert a watercourse modify the bed or bank of a watercourse ood control  se(s)? g the current licence period (i.e. since 2014).

quality in Twin Lakes Creek and Chris Creek. This water sampling will continue under the amended licence. No other uses of water are expected to be required under the renewed licence.
If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of water use(s) noting any water use(s) that are to be added, continued, or removed.
<ul> <li>□ To obtain water for camp/ municipal purposes</li> <li>□ To obtain water for industrial purposes</li> <li>□ To divert a watercourse</li> <li>□ To cross a watercourse</li> <li>□ To modify the bed or bank of a watercourse</li> <li>□ To alter the flow of, or store water</li> <li>□ Flood control</li> <li>★ Other: To obtain water samples for post-closure monitoring of water quality</li> </ul>
13. QUANTITY OF WATER INVOLVED
Does the proposed amendment change the source of water? No
Indicate the water source(s). Identify proposed changes.:
The existing Water Licence authorizes the withdrawal of fresh water for domestic use from East Twin Lake and water for purposes of mitigation or industrial activities from East Twin Lake, West Twin Creek and Chris Creek. Water uses required under the amended licence are limited to sampling of water in the Twin Lakes Creek, Chris Creek and Landfill watersheds for the purpose of monitoring post-closure water quality.
Does the proposed amendment change the quality of the water source and/or its available capacity? No
Describe the quality of the water source(s) and the available capacity(s). Identify any changes.: N/A
Does the proposed amendment change the overall quantity of water to be used? No
Provide the overall estimated quantity to be used. Identify proposed changes: Less than 100 litres per year
Water uses required under the amended licence relate to the acquisition of water samples from Twin Lakes Creek and Chris Creek. Water quantities required for this sampling are minor.
Does the proposed amendment change the quantity of water to be used from each source? Yes
Provide the estimated quantity(s) of water to be used from each source. Identify proposed changes: See above. The quantity of water required for post-closure monitoring of water quality is not expected to exceed 100 litres per year.
Does the proposed amendment change the quantity of water to be used for each purpose? Yes
Provide the estimated quantities to be used for each purpose (camp, drilling, etc.). Identify proposed changes.: See above.
Does the proposed amendment change the method(s) of extraction? No
Describe the method(s) of extraction. Identify proposed changes.: N/A
Does the proposed amendment change the quantity(s) of water returned to source(s)? No

Estimated quantity(s) of water returned to source(s). Identify proposed changes. : N/A				
Does the proposed amendment change the quality(s) of water returned to source(s)? No				
Descr	Describe the quality(s) of water(s) returned to source(s). Identify any changes. : N/A			
14.	WASTE			
Check	the appropriate box(s) to indicate the type	es of waste(s) approved in the existing licence.		
	<ul><li>☑ Sewage</li><li>☑ Solid Waste</li><li>☑ Hazardous</li><li>☑ Bulky Items/Scrap Metal</li></ul>	<ul><li>☐ Waste oil</li><li>☐ Greywater</li><li>☐ Sludges</li><li>☒ Contaminated soil and/or water</li></ul>		
	☐ Animal Waste ☐ Other (describe):			
Does	the proposed amendment change the type	e(s) of waste(s) to be generated or deposited? Yes		
If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of waste(s) to be generated and/or deposited noting the addition, removal or continued generation and/or disposal of waste(s).				
	☐ Sewage ☐ Solid Waste ☐ Hazardous ☐ Bulky Items/Scrap Metal ☐ Animal Waste ☑ Other (describe): Effluent from West	☐ Waste oil ☐ Greywater ☐ Sludges ☐ Contaminated soil and/or water  Twin Disposal Area		
to be g applica	enerated from the post-closure monitoring	items/scrap metal or contaminated soil/water are expected activities which are the subject of this licence amendment Twin Disposal Area will continue and will be monitored at and licence requirements.		
15.	QUANTITY AND QUALITY OF WASTE	INVOLVED		
Does the proposed amendment change the quantity(s) of the types of wastes involved? No				
Does	the proposed amendment change the con	nposition(s) of the types of wastes involved? No		
Does	the proposed amendment change the me	thod(s) of treatment for the types of waste involved? No		
Does	the proposed amendment change the me	thod(s) of disposal for the types of waste involved? No		
If Yes	to any of the above, describe the propose	ed changes:		
	nch type of waste indicated in Block 14, de	scribe its composition, quantity in cubic meters/day,		

#### 16. OTHER AUTHORIZATIONS

Does the proposed amendment change the need for other authorizations in addition to the sub-surface and surface land use authorizations provided in Block 6? No

If Yes, indicate any additional authorizations required, which authorizations are no longer required, and which authorizations continue to be required.

# 17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES

Does the proposed amendment change the predicted environmental impacts of the undertaking or the mitigation measures? No

Describe direct, indirect, and cumulative impacts related to water and waste. Identify any changes.

#### 18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS

Was compensation paid and/or an agreement(s) for compensation been entered into with any existing or other users of water during consideration of the existing licence? **No** 

If Yes, provide the names, addresses and the nature of water use by those persons or properties.

Does the proposed amendment adversely affect any known persons or property including those that hold licences for water use in precedence to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature? **No** 

If Yes, provide the names, addresses and the nature of water use of those persons or properties.

Advise the Board if compensation has been paid and/or an agreement(s) for compensation has been reached with any existing or other water users with respect to the proposed amendment.

#### 19. INUIT WATER RIGHTS

Was compensation paid/ or an agreement(s) for compensation been entered into with any Designated Inuit Organization (DIO) during consideration of the existing licence? **No** 

If Yes, which DIO(s) \_\_\_\_\_

Does the proposed amendment substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL)? No

If Yes, advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more DIO(s) with respect to the proposed amendment.

**20. CONSULTATION** - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

No consultation meetings have been held for the renewal of the water licence.

#### 21. SECURITY INFORMATION

Does the proposed amendment change the financial security assessment? Yes

Does the proposed amendment change the estimate of the total financial security for final reclamation? Yes

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken. Identify any changes in the financial security assessment resulting from the proposed amendment.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

The outstanding reclamation liability for the former Nanisivik mine is estimated at \$800,000. The liability estimate accounts for the costs involved in implementing the post-closure monitoring programs included in this licence application. It also includes a contingency for any unplanned maintenance works that may be required, e.g. in relation to thermal covers and other geotechnical structures. The estimates are based on actual costs incurred in the implementation of the post-closure monitoring programs to date.

Item	Estimated Liability (CAD)
Post-closure monitoring, 6 years @ \$100,000/year	\$600,000
Contingency	\$200,000
Total	\$800,000

At the end of the proposed licence period in 2029, the closure and reclamation works completed in 2004 and 2005 will have been subject to 25 years of post-closure monitoring. The length of this post-closure monitoring period is aligned with industry practice and federal recommendations for what may be required before a reclaimed mine site can be abandoned. With this in mind, the estimate of outstanding reclamation liabilities assumes no further monitoring of geotechnical and water quality conditions will be required beyond the 10-year licence period. The validity of this assumption will be assessed during and at the end of the 10-year licence period based on the results of the monitoring programs.

### 22. FINANCIAL INFORMATION

Is the statement of financial security the same as that considered in the existing water licence? No

Provide an updated statement of financial security.

Consistent with the estimate of outstanding reclamation liabilities presented in block 21 above, Canzinco requests that the amount of the financial security be reduced to \$800,000. The reduction relative to the currently maintained security of \$2,000,000 reflects the fact that all remediation works at the docksite have been finalized and that no further reclamation and closure activities are foreseen at the site (only monitoring of completed reclamation works).

If the applicant is a business entity please answer the questions below:

Is the list of the officers of the company the same as those considered in the existing water licence? No

Provide a list of the officers of the company.

Please refer to Appendix C for information about the Directors of Canzinco Mines Ltd. Please refer to Appendix J for appointment of Officers for Canzinco Mines Ltd.

Is the Certificate of Incorporation or evidence of registration of the company name the same? Yes

Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

A copy of the Certificate of Continuation for Canzinco Mines Ltd. is provided in Appendix K.

#### 23. STUDIES UNDERTAKEN TO DATE

List and attach updated studies, reports, research etc.

Studies and reports relevant to this Water Licence amendment application are provided in the following Appendices:

- Appendix H Geotechnical Monitoring Beyond 2019
- Appendix I Water Quality Monitoring Beyond 2019

Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licensee specific direction in completing the assessment and report.

A Compliance Assessment relative to the conditions of Water Licence 1AR-NAN1419 is provided in Appendix L. No inspector reports have been received during the licence period (i.e. there have been no site inspection by the AANDC since 2014).

If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist. In completing the Compliance Assessment, a non-compliance with respect to the payment of water use fees for the period 2014 to 2018 was identified. The outstanding water use fees will be paid at once.

#### 24. PROPOSED TIME SCHEDULE

When are proposed amendments scheduled to be undertaken: 2020-2029

Does the proposed amendment change the time schedule considered in the existing licence for any phase of development? Yes Indicate the start and completion dates for each applicable phase of development (construction, operation, closure, and post closure). Identify proposed changes. Construction \_\_\_\_\_ Proposed Completion Date:\_ Proposed Start Date: (month/year) (month/year) **Operation** Proposed Start Date: N/A Proposed Completion Date: (month/year) (month/year) Closure Proposed Start Date:\_\_\_ \_ N/A \_\_\_\_\_ Proposed Completion Date: (month/year) (month/year) Post - Closure Proposed Start Date:\_\_\_ 2020 Proposed Completion Date:\_ 2029 (month/year) (month/year) For each applicable phase of development indicate which season(s) activities occur. Construction ☐ Winter Summer ☐ Fall ☐ All season Spring **Operation** Winter Spring Summer Fall ☐ All season Closure ☐ Winter ☐ Spring ☐ Summer □Fall ☐ All season Post - Closure ☐ Winter Spring 25. PROPOSED TERM OF LICENCE On what date does the existing licence expire? 22 December 2019 Is the Licensee applying for a combined renewal and amendment of the existing licence? Yes If Yes, indicate the proposed term of the renewal (maximum of 25 years): 10 years Requested date of renewal issuance: January 2020 Requested Expiry Date: December 2029 (The requested date of renewal issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's Guide 5: Processing Water Licence Applications for more information)

26.	ANNUAL REPORTING			
Will the	proposed amendment ch	nange the content	of annual reports or the annual report template? No	
f Yes, preport.	Yes, provide details regarding the content of annual reports and a proposed outline or template of the annual port.			
27.	CHECKLIST			
The foll	owing must be included v	with the application	n for Amendment for the water licensing process to begin.	
	Completed Application for Water Licence Amendment form.			
	⊠ Yes	□No	If no, date expected	
	•	Supplement Infor	mation Guideline (SIG), where applicable (see Block 11)	
	Not Applicable  ☐ Yes	□No	If no, date expected	
	Compliance Assessment / Status Report (see Block 23).			
	⊠ Yes	□No	If no, date expected	
	Indication of Renewal Requirement (see Block 26)			
	Yes	⊠ No	If no, date expected	
	English Summary of Amendment Application.			
	⊠ Yes	□No	If no, date expected	
	Inuktitut and/or Inuinna	qtun Summary of	Amendment Application.	
	⊠ Yes	□No	If no, date expected	
	Application fee of \$30.00 CDN (Payee Receiver General for Canada).			
	⊠ Yes	□No	If no, date expected	
	Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.			
	⊠ Yes	□No	If no, date expected	

28. SIGNATURE			
Johan Skoglund	Director	John Shorbya	20 June 2019
Name (Print)	Title (Print)	Signature	Date

# **Appendices**

Appendix A: Executive summary of Water Licence amendment application (English)

Appendix B: Executive summary of Water Licence amendment application (Inuktitut)

Appendix C: Resolution Canzinco Mines Ltd.

Appendix D: Site location map

Appendix E: Nunavut Planning Commission conformity determinations

Appendix F: Nunavut Impact Review Board 2002 screening decision

Appendix G: Nunavut Impact Review Board 2014 screening exemption decision

Appendix H: Geotechnical monitoring beyond 2019

Appendix I: Water quality monitoring beyond 2019

Appendix J: Canzinco Mines Ltd. appointment of officers

Appendix K: Canzinco Mines Ltd. Certificate

Appendix L: Compliance assessment 1AR-NAN1419