

AMENDMENT TO ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 9758-A5BPZV

Notice No. 1

Issue Date: December 9, 2020

Kirkland Lake Gold Inc.
1350 Government Road West
Kirkland Lake, Ontario
P2N 3J1

Site Location: Macassa Mine Site
1350 Government Road West
Kirkland Lake Town, District of Timiskaming
P2N 3J1

You are hereby notified that I have amended Approval No. 9758-A5BPZV issued on July 8, 2016 for changes to air and noise conditions , as follows:

The following definitions are revoked:

2. "*Acoustic Assessment Report*" means the report, prepared in accordance with *Publication NPC-233* and Appendix A of the *Basic Comprehensive User Guide*, by Melissa Annett / RWDI AIR Inc. and dated March 5, 2015 and June 15, 2016, submitted in support of the application, that documents all sources of noise emissions and *Noise Control Measures* present at the *Facility*, as updated in accordance with Condition 5 of this *Approval*.
4. "*Acoustic Audit* " means an investigative procedure consisting of measurements and/or acoustic modelling of all sources of noise emissions due to the operation of the *Facility* , assessed to determine compliance with the Performance Limits for the *Facility* regarding noise emissions, completed in accordance with the procedures set in *Publication NPC-103* and reported in accordance with *Publication NPC-233*.
5. "*Acoustic Audit Report* " means a report presenting the results of an *Acoustic Audit*, prepared in accordance with *Publication NPC-233*.

6. "*Acoustical Consultant* " means a person currently active in the field of environmental acoustics and noise/vibration control, who is familiar with *Ministry* noise guidelines and procedures and has a combination of formal university education, training and experience necessary to assess noise emissions from a *Facility*.
23. "*Independent Acoustical Consultant* " means an *Acoustical Consultant* who is not representing the *Company* and was not involved in preparing the *Acoustic Assessment Report* or the design/implementation of *Noise Control Measures* for the *Facility* and/or *Equipment* . The *Independent Acoustical Consultant* shall not be retained by the *Acoustical Consultant* involved in the noise impact assessment or the design/implementation of *Noise Control Measures* for the *Facility* and/or *Equipment*.
30. "*Noise Control Measures*" means measures to reduce the noise emission from the *Facility* and/or *Equipment* including, but not limited to silencers, acoustic louvers, enclosures, absorptive treatment, plenums and barriers. It also means the noise control measures outlined in the *Acoustic Assessment Report*.
37. "*Publication NPC-103* " means the *Ministry* Publication NPC-103 of the Model Municipal Noise Control By-Law, Final Report, August 1978, published by the *Ministry* as amended.

and replaced with the following definitions:

2. "*Acoustic Assessment Report*" means the report, prepared in accordance with *Publication NPC-233* and Appendix A of the *Basic Comprehensive User Guide*, by Marcus Li / SLR Consulting (Canada) Ltd. and dated October 28, 2020, submitted in support of the application, that documents all sources of noise emissions and *Noise Control Measures* present at the *Facility*, as updated in accordance with Condition 5 of this *Approval*.
30. "*Noise Control Measures*" means measures to reduce the noise emission from the *Facility* and/or *Equipment* including, but not limited to silencers, acoustic louvers, enclosures, absorptive treatment, plenums and barriers.

The following conditions are revoked:

- 4.3 The *Company* shall:
 - (a) implement by not later than five (5) years from the date of this *Approval*, the *Noise Control Measures* , as outlined in the *Acoustic Assessment Report*;
 - (b) ensure, subsequent to the implementation of the *Noise Control Measures* that the noise emissions from the *Facility* comply with the limits set in *Ministry Publication NPC-300* ; and
 - (c) ensure that the *Noise Control Measures* are properly maintained and continue to provide the acoustical performance outlined in the *Acoustic Assessment Report* .

4.4 The *Company* shall ensure that the vibration emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-207*.

11. AMBIENT AIR MONITORING

11.1 The *Company* shall implement and maintain an ambient air monitoring program in accordance with the document "Kirkland Lake Gold Air Monitoring Program- Prevention of Wind Blown Dust" Rev.1: June 2016, as amended.

11.2 The ambient air monitoring program would be subject to periodic review and may be amended in consultation with the *District Manager*.

12. ACOUSTIC AUDIT

12.1 The *Company* shall carry out *Acoustic Audit* measurements on the actual noise emissions due to the operation of the *Facility*. The *Company*:

- (a) shall carry out *Acoustic Audit* measurements in accordance with the procedures in *Publication NPC-103*;
- (b) shall submit an *Acoustic Audit Report* on the results of the *Acoustic Audit*, prepared by an *Independent Acoustical Consultant*, in accordance with the requirements of *Publication NPC-233*, to the *District Manager* and the *Director*, not later than six (6) months after the full implementation of the *Noise Control Measures*.

12.2 The *Director*:

- (a) may not accept the results of the *Acoustic Audit* if the requirements of *Publication NPC-233* were not followed;
- (b) may require the *Company* to repeat the *Acoustic Audit* if the results of the *Acoustic Audit* are found unacceptable to the *Director*.

and replaced with the following conditions:

4.3 The *Company* shall, at all times, ensure that the noise emissions from the *Facility* comply with the limits set in *Ministry Publication NPC-300*.

4.4 The *Company* shall, at all times, ensure that the vibration emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-207*.

11. AMBIENT AIR MONITORING

1. The *Company* shall update the current ambient air monitoring program to include details including but not limited to revised air monitoring locations, contaminants to be monitored, time schedule of the installation of the revised air monitoring stations and commencement of ambient air monitoring. The ambient air monitoring program and its update shall be in accordance with the publication titled "Operations Manual for Air Quality Monitoring in Ontario, Ministry of the Environment Operations Division Technical Support Section" dated July 1, 2018, as amended. The *Company* shall submit the updated ambient air monitoring program to the *District Manager* within three (3) months of the issuance of this Notice, or within a period agreed to in writing with the *District Manager*.
2. The *Company* shall finalize the ambient air monitoring program in consultation with the *District Manager*. If the ambient air monitoring program is not acceptable to the *District Manager*, a revised ambient air monitoring program shall be submitted to the *District Manager* within a period agreed to in writing with the *District Manager*.
3. The *Company* shall install the ambient air monitors and conduct ambient air monitoring in accordance with the approved ambient air monitoring program.

All other Terms and Conditions in the Approval remain the same.

All in accordance with the application for amendment submitted by Kirkland Lake Gold Inc., dated October 4, 2019 and signed by Natasha Dombrowski; the supporting information, including the Acoustic Assessment Report, prepared by SLR Consulting (Canada Ltd.), dated October 28, 2020 and signed Marcus Li, P.Eng.

This Notice shall constitute part of the approval issued under Approval No. 9758-A5BPZV dated July 8, 2016.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;

5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

AND

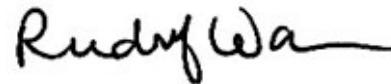
The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 9th day of December, 2020



Rudolf Wan, P.Eng.

Director

appointed for the purposes of Part II.1 of the
Environmental Protection Act

SA/

c: District Manager, MECP Timmins
Laura Clark, SLR Consulting (Canada) Ltd