

Guideline for Mining Work Performed in Kirkland Lake

The intent of this guideline is to describe the conditions and notification for ground exploration work performed on mining claims within the Town of Kirkland Lake.

Conditions for Performing Assessment Work

The conditions that must be satisfied by the claim holder in order to perform ground exploration work are:

1. Provide proof of liability insurance in the amount of \$5,000,000.
2. Consent of the owner of the surface rights property where the work will be performed must be obtained prior to commencement of the work. If necessary, the Ministry will act as arbitrator between the claim holder and surface rights holder.
3. The Town-By-laws, such as the Noise By-law, must be respected. All required permits, if any, are to be secured before the work commences.
4. Perform all work between the hours of 7:00 a.m. and 5:00 p.m. on Monday to Friday, unless otherwise approved by the Director of Physical Services.
5. Avoid working during times that may impact events and/or outdoor recreational activities.
6. The requirements of all legislation affecting the work being performed must be met.
7. Rehabilitation of the work site to the property owners' satisfaction is necessary after the work is completed. The claim holder remains subject to rehabilitation requirements.

The extent of notification to local inhabitants

The objective is to provide a greater extent of notification in the Town of Kirkland Lake as the potential for adverse effect(s) caused by ground exploration work increases.

Adverse effects are defined as follows:

- The impairment of the quality of the natural environment;
- Significant injury or damage to property or to plant or animal life;
- Significant harm or material discomfort to any person;
- An adverse effect on the health of any person;
- Impairment of the safety of any person;
- Rendering any property or plant or animal life unfit for use by man;
- Loss of enjoyment of normal use of property; or
- Interference with the normal conduct of business.

Sensitive land use is defined as “a land use associated with residents, schools, hospitals, senior citizen homes and public activities, or other land uses such as outdoor recreational activities, where humans or the natural environment may be adversely affected by the exploration work performed.”

The level of potential for adverse effects will be defined as follows:

Level	Definition & Characteristic of the Work
Low Potential	Produces minimal adverse effects for nearby sensitive land uses Example criteria: - Regular noise level than cannot carry beyond 25 metres and short infrequent noise levels that cannot carry beyond 50 metres; - Dust and/or odour infrequent and not intense; and/or - Vibration of ground does not occur.
Moderate Potential	Has the potential for the release of emissions and/or contaminants which create objectionable adverse effects for nearby sensitive land uses. Example criteria: - Regular noise level that cannot carry further than 50 metres and short infrequent noise levels that cannot carry beyond 100 metres; - Dust and/or odour frequent and occasionally intense; and/or - Vibration of ground can occur but cannot be perceived more than 30 metres from the source.
High Potential	Has the potential for the release of emissions and/or contaminants which create highly objectionable adverse effects for nearby sensitive land uses. Example criteria: - Regular noise levels that carry beyond 50 metres and short infrequent noise levels that carry beyond 100 metres; - Dust and/or odour is persistent and intense; and/or - Vibration of ground occurs and can be perceived more than 30 metres from the source.

The types of ground exploration work are defined as follows:

1. Compatible Exploration Work:

Compatible Exploration Work in the Town of Kirkland Lake is any work that does not create adverse effects for nearby sensitive land uses and is highly tolerant of the nearby uses. Generally, this work is not destructive. Examples include geophysical, geochemical and geological surveying and prospecting. Note: establishing a survey grid may be considered incompatible work if it creates an adverse effect for nearby land uses (i.e. use of chain saws, cutting of ornamental trees, etc.)

2. Light Exploration Work:

Light exploration work is characterized by a small size and volume of material excavated, where (1) the total area affected is less than 50 square metres; and or (2) the total volume excavated is less than 100 cubic metres; and/or (3) having low level of potential for adverse effects to nearby sensitive land uses. Examples include dewatering and clearing old mine workings, stripping, trenching and digging pits with equipment that causes minimum disturbances to others.

3. Moderate Exploration Work:

Moderate exploration work is characterized by a substantial amount of excavation at a single location, or many locations, where (1) the total area affected is between 50 and 100 square metres; and/or (2) the total volume excavated is between 100 and 200 cubic metres; and/or (3) having a moderate level of potential for adverse effects to nearby sensitive land uses. Examples include dewatering and clearing old mine workings, exploratory drilling, stripping, trenching and digging pits with equipment that may cause a moderate disturbance to others.

4. Heavy Exploration Work:

Heavy exploration work is characterized by a greater amount of earth and rock excavation at a single location or many locations, where (1) the total area affected is 100 square metres or more; and/or (2) the total volume excavated is 200 cubic metres or more; and/or (3) having a high level of potential for adverse effects to nearby sensitive land uses. Examples include dewatering and clearing old mine workings, exploratory drilling, stripping, trenching and digging pits with equipment that may cause great disturbance to others. It also includes shaft sinking, open cutting and blasting trenches and pits.

Prior to the commencement of the ground exploration work, the claim holder must satisfy the following notification conditions according to the type of exploration work:

Type of Exploration Work	Extent of Notification Required
Compatible	Owner(s) and Resident(s) of the property where the work will be performed
Light	Owner(s) and Resident(s) of the property where the work will be performed AND Owner(s) and Resident(s) of all properties within 100 metres of where the work will be performed.
Moderate	Owner(s) and Resident(s) of the property where the work will be performed AND Owner(s) and Resident(s) of all properties within 200 metres of where the work will be performed.
Heavy	Owner(s) and Resident(s) of the property where the work will be performed AND Owner(s) and Resident(s) of all properties within 400 metres of where the work will be performed.

Performing Work on Municipally-Owned Lands

All approvals for conducting work on municipally-owned lands are granted for a duration not exceeding twenty-four (24) months. The following is a list of conditions for proposed exploratory work to be performed on municipally-owned land.

1. Compatible and Light Exploration Work:

- Walking access to the property is permissible in any season provided any persons accessing the property will not interfere with the normal enjoyment or maintenance of these lands. Any motorized access across the course will require separate consent.

- Geotechnical surveys are acceptable but will be scheduled to not interfere with events, activities and user groups.
- If any gridlines are established where they are visible, the station pickets will not be erected without written consent from the Town to ensure that they will not interfere with activities or user groups.
- Line cutting or other permanent markings are only permissible provided approvals are obtained by the Town of Kirkland Lake.

2. Moderate and Heavy Exploration Work:

Should the claim holder or parties working under its direction wish to perform intrusive exploratory work, such as drilling, trenching or permanent markings and line cutting, a detailed work and restoration plan shall be submitted to the Town of Kirkland Lake for consideration. The exploratory work and restoration plan shall include:

1. A plan describing type and location of all works proposed;
2. A work schedule showing timing and working hours;
3. A detailed plan and demonstrate funding availability for restoration for all affected areas.

If it is determined that drilling is warranted, due consideration for noise levels to not exceed the ambient noise levels of the local traffic.

All moderate and heavy exploratory work is to be performed during off-seasons and proper precautions to protect the public and make immediate restoration will be required.

In the event that the claim holder and the Town cannot come to an agreement on drilling, the matter may be referred to the Mining and Lands Commissioner for resolution.

In the event that a production decision is made, the production activities will be designed so as to not be visible or audible by the public prior to the commencement of onsite production activities, the claim holder will consult with both the Town and the Ministry of Northern Development and Mines. The details will include comment on possible adverse impacts to other users of the lands. No production activities that will physically affect the surface rights shall be commenced without prior written consent from the Town and the Ministry of Northern Development and Mines. In the event that such consent is withheld, the claim holder may refer the matter to the Mining and Lands Commissioner for resolution.

The claim holder or parties working under its direction, will not release deleterious substances or contaminants (as defined in the Environmental Protection Act, R.S.O. 1990, c. E.19, as amended), into the streams or water bodies on the course, unless approved by the Ministry of the Environment.

All work sites shall be kept in a neat, tidy and professional condition. Any physical damages to the lands, the course and/or the facilities (caused by the claim holder or those working at its direction), will be repaired or restored to the original condition, at the claim holder's expense. If repairs are not made in a timely fashion, after written request to do so by the Town, the Town

shall be at liberty to use its own resources for such work, and will be entitled to reasonable compensation for such repairs.