



September 26, 2019

File: 1642059

Alex Gray  
British Columbia Hydro & Power Authority  
1111 W Georgia Street  
Vancouver BC V6E 4G2

Dear Alex Gray:

**Re: Mines Act Permit: G-9-371**  
**Property: Halfway River Materials Source**  
**Applicant: BC Hydro and Power Authority**  
**Notice of Work: 1642059-201901**  
**Approval Number: 19-1642059-0926**

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Mines Act permit G-9-371 is hereby issued authorizing aggregate extraction activities as described in the Notice of Work and Reclamation Program (1642059-201901). Your authorization is issued for the period beginning September 26, 2019 and ending prior to December 31, 2023. The Notice of Work and Reclamation Program forms part of your permit and you are reminded that you may not depart from the permitted program without written authorization.

Read your permit and ensure that you and all persons who are carrying out activities under this permit comply with all terms and conditions and are familiar with the approved work program. Maintain a legible copy of this permit at the mining property, and ensure it is available to authorized inspectors and other authorized government officials.

Be advised, effective June 1, 2018, pursuant to section 1.12 of the Health, Safety and Reclamation Code for Mines in British Columbia the Manager shall ensure that every worker employed in the mining activity of an open pit mine is under the supervision of:

- (a) the holder of an open pit shiftboss certificate where more than six persons are employed, or
  - (b) the holder of a supervisor certificate in the case of an open pit mine employing six persons or fewer,
- If the mine manager is the supervisor, the manager must also hold a supervisor's certificate.

This permit applies only to the requirements under the *Mines Act* and Health, Safety and Reclamation Code for Mines in British Columbia (Code). Be advised part 10 of the Health, Safety and Reclamation Code for Mines in British Columbia has been revised as of July 2016. It is your responsibility to be aware of and to comply with the revised part 10 of the Code (including section 10.4.1) as well as all other applicable parts of the Code. Other legislation may be applicable to the operation and you (the Permittee) are responsible for obtaining all required approvals or permits under that legislation. Work requiring approval or permit(s) from other agencies shall not commence until those approvals or permits are obtained.

Cutting of timber and use of roads is not authorized under this permit. It is your responsibility to apply for and receive cutting authority prior to felling timber on crown land and road use permits wherever necessary. It is also your responsibility to comply with the terms and conditions of all permits and authorizations that you may have been issued and other applicable legislation.

Pursuant to section 21, 22, 23, and 24 of the Mines Act, a Mine Manager shall be appointed for your mine site. Prior to commencing mining activities, please provide, to this mines inspector, the name and contact information for the appointed Mine Manager. This Mine Manager shall be adequately qualified and well informed of the responsibilities regarding the *Mines Act* and the Health, Safety and Reclamation Code.

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Ministry of Energy, Mines and  
Petroleum Resources

Mailing Address:  
Suite 350 - 1011 4th Avenue  
Prince George BC V2L 3H9  
Phone: 250-565-4240  
Fax: 250-565-4328

Location:  
Suite 350  
Plaza 400 Bldg  
Prince George BC

**Pursuant to section 1.7.1 and 1.7.3 of the Health, Safety and Reclamation Code the Manager shall report all significant accidents and dangerous occurrences to the regional Health and Safety Inspector of Mines.**

For reclamation purposes, ensure that photos are taken of the work areas prior to commencing work, during operations and following completed reclamation. These photos are to be submitted to this office with your completed Annual Summary of Activities form. **It is a requirement that you submit a completed form and detailed map of your mining operation annually, by March 31, to this office. Failure to comply with the Code may impact your ability to obtain future permits and work authorizations.**

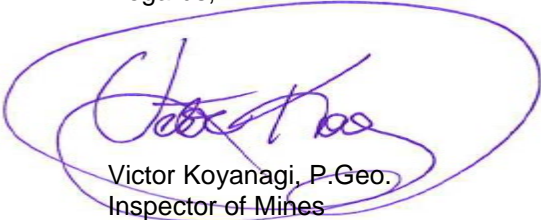
Contaminated or silt laden water shall be suitably contained on site and shall not be allowed to enter any watercourse or stream. Erosion shall be minimized and controlled at the source eliminating negative impacts to the environment.

Health and Safety inspections fall under the jurisdiction of this Ministry. A Mine Inspection Fee is collected for this service. The fee structure is based on tonnes of materials extracted for the period January 1<sup>st</sup> through December 31<sup>st</sup>. You will receive a Return Reminder for the Mine Inspection Fee in December of each year, with payment due by January 31<sup>st</sup> of the following year. For further information regarding the Mine Inspection Fee please contact your regional office or Cindy Head at Mineral, Oil and Gas Revenue Branch in Victoria at 250-356-1366.

All activities on the mine site shall comply with the terms and conditions listed in the Health, Safety and Reclamation Code for Mines in British Columbia, the *Mines Act*, and shall conform with the Metal Leaching and Acid Rock Drainage Guidelines for Mines in British Columbia.

Please provide me with written notice at least 7 days prior to ceasing work on the program.

Regards,



Victor Koyanagi, P.Geo.  
Inspector of Mines

encl Permit / Approved NoW  
Annual Summary of Activities Form

Cc: Emily Cartwright, Reclamation Section, MEM Victoria

**PROVINCE OF BRITISH COLUMBIA  
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES**

**SAND AND GRAVEL PERMIT  
APPROVING MINE PLAN AND RECLAMATION PROGRAM**  
(Issued pursuant to Section 10 of the **Mines Act** R.S.B.C. 1996, C.293)

Permit Number: **G-9-371**

Mine Number: **1642059**

Approval Number: **19-1642059-0926**

Permittee: **British Columbia Hydro & Power Authority  
1111 W Georgia Street  
Vancouver BC V6E 4G2**

Business Phone: **(604) 699 5178**

For work located at the following property:

**Halfway River Materials Source**  
Lat: 56.21880N Long: -121.44730W

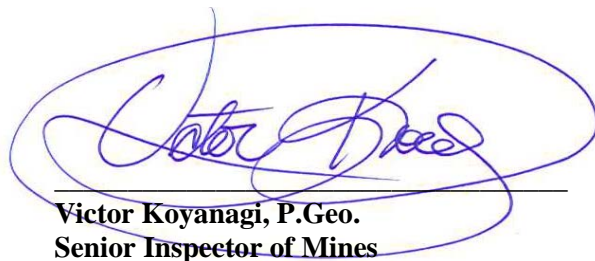
This approval and permit is subject to the appended conditions and mine plan as described in **Notice of Work and Reclamation Program 1642059-201901** for the period:

**September 26, 2019 to December 31, 2023**

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Date of Issuance: **September 26, 2019**

Date of Amendment:



**Victor Koyanagi, P.Ge.  
Senior Inspector of Mines**

**PREAMBLE**

A Notice of Work and Reclamation Program 1642059-201901 submitted June 26, 2019 was received by the Chief Inspector of Mines (Chief Inspector) on July 2, 2019 in accordance with Part 10.1.2 of the Health, Safety and Reclamation Code for Mines in British Columbia (Code).

The Notice of Work and Reclamation Program (Application) includes the following document:

Site C Clean Energy Project, Mines Act Notice of Work – Highway 29, Halfway Materials Sources Management Plan, dated June 10, 2019

Pursuant to s.10 of the *Mines Act*, the Application hereby forms part of the permit, and defines what mining and reclamation activities are approved under this authorization.

All activities on the mine site shall comply with:

- a. the *Mines Act*, and
- b. the Health, Safety and Reclamation Code for Mines in British Columbia (Code)

and shall adhere to the terms and conditions listed in:

- a. the Metal Leaching and Acid Rock Drainage Guidelines for Mines in British Columbia,  
and
- b. the Handbook for Mineral and Coal Exploration in British Columbia

## CONDITIONS

The Chief Inspector of Mines hereby approves the Notice of Work and Reclamation Program (Application) subject to compliance with the following conditions:

1. Reclamation Security

Reclamation security for this permit and approval is not required.

2. Documentation

While it remains valid and subsisting, a copy of the Mines Act Permit must be kept at the mine site, and must be available to an Inspector and other authorized government officials.

3. Mine Emergency Response Plan

The Mine Emergency Response Plan shall be posted in a conspicuous place accessible to all persons on the mine site while the mine is in operation.

4. Removal of Topsoil

No topsoil shall be removed from the mine site without the specific written permission of an Inspector.

5. Environmental Protection

- a. Erosion and sediment shall be effectively controlled on the mine site minimizing or eliminating negative impacts to the environment.
- b. Sediment laden water shall be suitably contained on the mine site and not be allowed access to any watercourse or stream.
- c. Dust originating from the mine site shall be controlled at the source to the satisfaction of an Inspector.
- d. Noise originating from the mine site shall be controlled to the satisfaction of an Inspector.

6. Fuels and Lubricants

The Manager shall ensure:

- a. Fuel and lubricants are delivered to the site only as needed to re-supply machinery and tanks on mobile and fixed equipment.
- b. Impermeable, oil-absorbent matting is used when refueling and servicing equipment.
- c. All stationary engines are provided with suitably-designed drip pans.
- d. While refueling, the operator is in control of the refueling nozzle at all times.

- e. Hydrocarbon leaks on equipment are effectively repaired as soon as they are discovered or the equipment shall be removed from the site and not operated until repairs have been made.
- f. Appropriately-sized emergency spill containment and/or clean-up kits (spill kits) are maintained at appropriate locations on the mine site while it is in operation. The containment mechanism and/or kit shall have the capacity to contain and clean up 100% of a spill from a failure of the largest volume of a fuel or lubricant tank or system plus 10%.
- g. If any hydrocarbon product is spilled, the contaminated soils is immediately collected and removed for appropriate disposal.
- h. All hydrocarbon containers are removed from the mine site at regular intervals and upon completion of mining activities.

The Manager shall ensure that all handling, transportation, and storage of fuels and lubricants conform to the requirements of British Columbia's *Field Guide to Fuel Handling, Transportation & Storage*.

7. Receiving Foreign Materials

Foreign materials including but not limited to garbage, refuse, concrete, asphalt, asphalt shingles, and foreign soils shall not be accepted or stored on the mine site unless authorized in writing by the an Inspector.

8. Invasive Plants

The introduction of invasive plants to the disturbance footprint, (including stockpiles) shall be prevented. Invasive plants that do establish on the site shall be identified, monitored and controlled and detailed reporting of outbreaks shall be conducted. This reporting shall be made available to an Inspector upon request.

9. Crushing Notification

The Manager shall, seven working days prior to commencement of crushing, screening, or washing operations, notify the regional Inspector in writing. The notification shall include the start date and the anticipated end date of the operation.

10. Hydrocarbon Management

The Permittee shall develop and implement a hydrocarbon management plan that deals with fueling, handling, operational servicing, spill prevention, and spill clean-up for fuels and lubricants utilized and/or stored on the mine site and that is consistent with the Field Guide to Fuel Handling, Transportation & Storage. A detailed spill contingency plan shall be included as part of the management plan, as shall all other conditions of this permit pertaining to fuels and lubricants.

11. Hydrocarbon Management

All vehicles, heavy equipment and machinery operating on the mine site shall be clean, in good working order and free from hydrocarbon leaks. A detailed spill response plan shall

be developed and maintained at the mine site. All workers shall be sufficiently trained in the spill response plan. An adequate spill kit shall be maintained and kept on the mine site whenever mining activities are occurring.

12. Site Stability

- a. The regional Inspector shall be advised in writing at the earliest opportunity of any unforeseen conditions that could adversely affect the extraction of materials, site stability, erosion control or the reclamation of the site.
- b. The stability of slopes shall be maintained at all times.
- c. The discovery of any significant subsurface flows of water, seeps, substantial amounts of fine-textured soils, silts and clays shall be reported to the Regional Inspector and work shall cease until the Regional Inspector advises otherwise.