



December 3, 2019

File: 1641200

Meaghan Candy
Sr. Environmental Coordinator
British Columbia Hydro & Power Authority
1111 W Georgia Street
Vancouver BC V6E 4G2

Dear Meaghan Candy:

Re: Amendment of Mines Act Permit: G-9-341
Permittee: BC Hydro and Power Authority
Notice of Work: 1641200-201902
Project: Peaceview Borrow Area
Approval Number: 19-1641200-1203

Mines Act permit G-9-341 is hereby amended extending the date of completion from December 31, 2019 to December 31, 2024. Approved activities are described in the Notice of Work and Reclamation Program (1641200-201701) previously authorized September 19, 2017. All conditions of the Mines Act permit issued September 19, 2017 continue to apply. 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.

Attach this letter to your Mines Act permit as it forms an integral part of the permit.

If you intend to continue mining operations on this mine site following September 19, 2022, prior to this date you are required to comply with section 10.4.1 HSR Code and submit an updated mine plan in the form of a Notice of Work application. This application shall contain a detailed as-built map of the entire mine site. The application shall include a phased mine plan and progressive reclamation plan. At this time your reclamation security will also be reassessed.

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.

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, provide the name and contact information for the appointed Mine Manager to the Regional Mines office in Prince George.

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.

As a condition of this permit, you are required to continually and progressively reclaim the surface of the land affected by the mining operation. The amount of your security deposit may be adjusted on the basis of reclamation performance, field inspections by this Ministry, and on reports which may be requested.

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 1st through December 31st. You will receive a Return Reminder for the Mine Inspection Fee in December of each year, with payment due by January 31st 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.

Sincerely,



Victor Koyanagi, P.Geo.
Inspector of Mines

encl Approved NoW
Annual Summary of Activities Form

Cc: Eva Armstrong, Reclamation Section, MEM Victoria
Karen Von Muehldorfer, BC Hydro and Power Authority
Tyler Annand, MFLNRO Consultation Advisor



September 19, 2017

File: 1641200

Alex Gray
BC Hydro and Power Authority
600-333 Dunsmuir Street
Vancouver BC V6B5R4

Dear Alex Gray:

Re: Mines Act Permit: G-9-341
Notice of Work: 1641200-201701
Approval Number: 17-1641200-0919
Property: Peaceview Borrow Area

Mines Act permit G-9-341 is hereby issued authorizing construction aggregate mining activities as described in the Notice of Work and Reclamation Program (1641200-201701) submitted May 16, 2017. Your authorization is issued for the period beginning September 19, 2017 and ending prior to December 31, 2019. The Notice of Work and Reclamation Program form 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.

This permit applies only to the requirements under the *Mines Act* and Health, Safety and Reclamation Code for Mines in British Columbia (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.

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.

Reclamation security for this project is hereby waived. As a condition of this permit, you are required to continually and progressively reclaim the surface of the land affected by the mining operation, as described in the Notice of Work application (Site C Clean energy Project Mines Act Notice of Work – Peaceview Borrow Area Description of Work).

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

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.

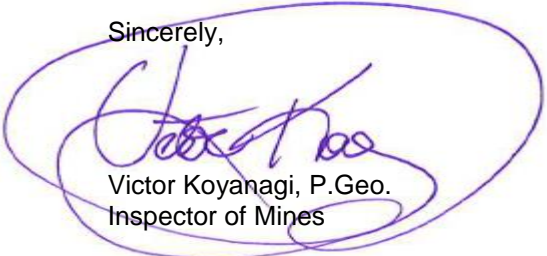
Contaminated or silt laden water shall be suitably contained on site and shall not be allowed to enter any watercourse or stream. Erosion shall be minimized and controlled at the source eliminating negative impacts to the environment.

All activities on the mine site shall conform to terms and conditions listed in:

- a) the Health, Safety and Reclamation Code for Mines in British Columbia,
- b) the *Mines Act*,
- c) the Metal Leaching and Acid Rock Drainage Guidelines for Mines in British Columbia, and
- d) the Handbook for Mineral and Coal Exploration in British Columbia.

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

Sincerely,



Victor Koyanagi, P.Ge.
Inspector of Mines

encl Permit / Approved NoW
Annual Summary of Activities Form

Cc: Eva Armstrong, Reclamation Section, MEM Victoria

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

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

Permit No.: **G-9-341**

Mine No.: **1641200**
Approval No.: **17-1641200-0919**

Issued to: **BC Hydro and Power Authority**
600-333 Dunsmuir Street
Vancouver BC V6B5R4

for work located at the following property:

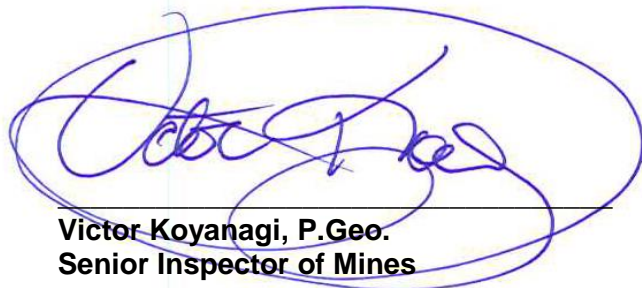
Peaceview Borrow Area

This approval and permit is subject to the appended conditions.

This amendment authorizes mining activities as described in the Notice of Work and Reclamation program 1641200-201701 for the period:

beginning September 19, 2017 and ending prior to December 31, 2019

Issued this 19th day of September in the year 2017.



Victor Koyanagi, P.Geo.
Senior Inspector of Mines

PREAMBLE

Notice of intention to commence work on a sand and gravel pit, including a plan of the proposed work system and a program for the protection and reclamation of the surface of the land and watercourses affected by the Notice of Work submitted May 16, 2017 was filed with Front Counter BC May 16, 2017 and was accepted as complete by the regional Inspector of Mines on August 14, 2017.

This permit contains the requirements of the Ministry of Energy, Mines and Petroleum Resources for reclamation. It is also compatible, to the extent possible, with the requirements of other provincial ministries for reclamation issues. The amount of security required by this permit, and the manner in which this security may be applied, will also reflect the requirements of those ministries. Nothing in this permit, however, limits the authority of other provincial ministries to set other conditions, or to act independently, under their respective permits and legislation.

Decisions made by staff of the Ministry of Energy, Mines and Petroleum Resources will be made in consultation with other ministries.

CONDITIONS

The Chief Inspector of Mines (Chief Inspector) hereby approves the work plan and the program for protection and reclamation of the land surface and watercourses subject to compliance with the following conditions:

1. Reclamation Security

Reclamation security for this project has been waived.

2. Land Use

The surface of the land and watercourses shall be reclaimed to the following land use: ***Wildlife, Aquatic Habitat.***

3. Productivity

The mine site shall be adequately reclaimed to a state that is acceptable for inundation within the Site C reservoir as described in the BC Hydro and Power Authority Site C Clean Energy Project Construction Environmental Management Plan.

4. Reclamation

The Manager shall ensure that reclamation activities as described in the approved Notice of Work (Site C Clean energy Project Mines Act Notice of Work – Peaceview Borrow Area Description of Work) are undertaken in accordance with the schedule outlined in the document.

5. Buffer Zones and Berms

Buffer zones and/or berms shall be established between the mine and the property boundary unless exempted in writing by the Regional Inspector.

6. Treatment of Structures and Equipment

Prior to abandonment, and unless the Chief Inspector has made a ruling otherwise, such as heritage project consideration or industrial use,

- (a) all machinery, equipment and building superstructures shall be removed,
- (b) concrete foundations shall be covered and revegetated unless, because of demonstrated impracticality, they have been exempted by the Inspector, and
- (c) all scrap material shall be disposed of in a manner acceptable to the Inspector.

7. Watercourses

Impacts to watercourses are not authorized under this approval.

8. Disposal of Fuels and Toxic Chemicals

Fuels, chemicals or reagents which cannot be returned to the manufacturer/supplier are to be disposed of as directed by the Chief Inspector in compliance with municipal, regional, provincial and federal statutes.

9. Temporary Shutdown

If this sand and gravel pit ceases operation for a period longer than one year the Permittee shall either continue to carry out the conditions of the permit or apply for an amendment setting out a revised program for approval by the Chief Inspector.

10. Safety Provisions

All safety and other provisions of the ***Mines Act*** and the **Health, Safety and Reclamation Code for Mines in British Columbia (HSR Code)** shall be complied with to the satisfaction of the Chief Inspector.

11. Monitoring

The Permittee shall develop and implement monitoring programs to demonstrate progressive reclamation is being conducted and that reclamation objectives are being achieved.

12. Alterations to the Program

Substantial changes to the program must be submitted to the Regional Inspector for approval.

13. Notice of Closure

Pursuant to Part 10.6.1 of the Health, Safety and Reclamation Code for Mines in British Columbia, a Notice of Completion of Work shall be filed with the Regional Inspector not less than seven days prior to cessation of work.

14. Annual Summary

Annual summary of activities shall be submitted to the Regional Mines office in Prince George prior to March 31 of each year the permit remains valid. A detailed as-built map shall be provided with the annual summary. Hand drawn maps are not acceptable.

15. Site Stability

- (a) The 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 the slopes shall be maintained at all times and erosion shall be controlled 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 inspector as soon as possible and work shall cease until the inspector advises otherwise.

16. Training and Orientation

The Manager shall ensure compliance with section 1.11.1 of the HSR Code and shall ensure that all workers are adequately trained to do their job or are working under the guidance of someone who has competency both in the job and in giving instruction, and ensure that all employees receive thorough orientation and basic instruction in safe work practices.

The Manager shall maintain a record of all training workers and supervisors have received, and make this record available to an inspector upon request.

17. Hazards and Confined Spaces

The Manager shall ensure hazardous areas and confined spaces on the mine site are identified and documented in a formal report. Confined spaces shall be clearly marked near the entrances to the confined space. Upon completion of the report, the report shall be provided to all emergency responders (police, fire, ambulance, etc.) that may potentially enter the mine site.

18. Guarding of Equipment:

The Manager shall ensure compliance with section 4.4.2 and 4.4.16(6) of the HSR Code and shall ensure:

- (a) all head, tail, drive, and tension pulleys of a conveyor shall be effectively guarded at their nip points and the guards shall extend for a distance of at least 1 m from the nip point, and
- (b) unless situated so as to prevent a person coming into accidental contact with it, every drive belt, chain, rope or pulley, sprocket, flywheel, geared wheel and every opening through which any belt, pulley or wheel operates, and every bolt, key, set screw and every part of any wheel or other revolving part that projects unevenly from the surface shall be effectively enclosed, covered, or guarded.

19. Access Control

The Manager shall ensure compliance with section 1.3 of the HSR Code and shall ensure that other than an inspector, only persons authorized by the manager shall enter or be permitted to enter the mine site. This shall be accomplished through the use of locked gates or other suitable means. Notice to this effect shall be posted at all road entrances to the mine.

20. Environmental Protection:

- (a) Silt laden water shall be suitably contained on site and not be allowed free access to any watercourse or stream.
- (b) Erosion shall be suitably managed and controlled, eliminating or minimizing environmental impacts.
- (c) Dust originating from the mine site shall be controlled at the source.
- (d) All roads shall be appropriately constructed and top dressed such that dust is controlled. A sprinkler system or water truck shall be utilized to ensure dust control.
- (e) Excessive noise shall be controlled at the source. Adequate mufflers shall be utilized on equipment to eliminate excessive noise.

21. Authorizations from Other Agencies:

The Permittee is responsible for obtaining all permits and authorizations as required from other government agencies and complying with terms and conditions as set out by those agencies.

22. Metal Leaching and Acid Rock Drainage:

Where applicable, all activities on the mine site shall adhere to the Metal Leaching and Acid Rock Drainage Guidelines for Mines in British Columbia.

23. Fuels and Lubricants

Fuels and Lubricants, if stored on the mine site, shall conform to the requirements of the Field Guide to Fuel Handling, Transportation, and Storage

The permittee shall develop and implement a hydrocarbon management plan that deals with fueling, operational servicing, spill prevention and clean-up for fuels and lubricants stored on or off the mine site. The plan shall account for the following:

- (a) Fuel and lubricants shall be delivered to site as needed to re-supply and oil tanks on mobile and fixed equipment.
- (b) Impermeable, oil absorbent matting shall be used when refueling and servicing equipment.
- (c) While refueling the operator shall be in control of the refueling nozzle at all times.
- (d) If any Petroleum, hydrocarbon or other product (no matter how small) is spilled the contaminated soil/gravels shall be forthwith collected and removed for appropriate disposal.
- (e) Fuel or oil leaks on equipment shall be 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) An emergency spill containment and clean up kit shall be maintained at the site while it is in operation. The 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%

24. Chance Find Plan

The Manager shall develop and implement a suitable Archaeological Chance Find Procedure (CFP). The Manager shall ensure all workers on the site are aware of and understand the CFP and adhere to the procedure.

25. Crushing and Screening

The Owner, Agent, or Manager shall, notify the regional Inspector in writing (via e-mail or letter) seven (7) days prior to commencing of crushing, screening, or washing operations. The notification shall include the start date and the anticipated end date of the operation.

26. Dangerous Occurrences

The Manager shall ensure compliance with section 1.7.1 of the HSR Code and shall report all dangerous occurrences to the Regional Health and Safety Inspector of Mines.

27. Receiving Materials on the Mine Site

The Manager shall not allow any foreign materials to be accepted or stored on the mine site including (but not limited to) garbage, refuse, concrete, scrap metal, asphalt or asphalt shingles unless authorized in writing by an Inspector of Mines