Non OGAA Permit Template v 4.5



August 20, 2020

Coastal GasLink Pipeline Ltd. 450 - 1st Street SW Calgary, AB T2P5H1

Attention: Coastal GasLink Pipeline Ltd.

## RE: Determination of Application Number 100105743

Permit Holder: Coastal GasLink Pipeline Ltd. Date of Issuance: August 20, 2020 Effective Date: August 20, 2020 Application Submission Date: January 23, 2020 Application Determination Number: 100105743 Approved Disturbance Footprint: 16.226 ha

# **ACTIVITIES APPROVED**

Associated Oil & Gas Activity No.: 00202281

Type: Aggregate/Borrow Pit

# **GENERAL AUTHORIZATIONS AND CONDITIONS**

# AUTHORIZATIONS

## Land Act

- 1. The BC Oil and Gas Commission (the "Commission") pursuant to section 39 of the Land Act hereby authorizes the Permit Holder referenced above to construct and operate a related activity(s) as detailed in, Activities Approved table above and the Activity Details table(s) below, when applicable, for the purposes of carrying out oil and gas activities as defined in the *Oil and Gas Activities Act* (OGAA); subject to the conditions set out herein.
- 2. The authorizations granted under this permit are limited to the area identified in the spatial data submitted to the Commission in the permit application as identified and dated above; herein after referred to as the 'activity area'.
- 3. The Commission, pursuant to section 39 of the *Land Act*, hereby authorizes the occupation and use of any Crown land located within the activity area.
  - a. A licence authorized under section 39 of the Land Act for the Crown land portion of this application will follow. The permit holder is subject to the conditions contained in the Licence.
  - b. The authorization to occupy and use Crown land under the Licence expires two years from the date of issuance, unless the Commission has received notice of construction start, or this permit is otherwise extended, suspended, cancelled, surrendered or declared spent.
  - c. The authorization to occupy and use Crown land does not entitle the permit holder to exclusive possession of the activity area.
  - d. The total disturbance within the activity area must not exceed the total approved disturbance footprint as referenced above.

# AUTHORIZATIONS

## **Forest Act**

4. The Commission, pursuant to section 47.4 of the *Forest Act*, hereby authorizes the removal of Crown timber from the activity area under the cutting permits associated with the Master Licence(s) as follows:

Master Licence to Cut No.: M02614 Cutting Permit No.: 7 Timber Mark No.: MTC903 Total New Cut: 15.98 ha Forest District: (DPG) Prince George Natural Resource District Region: Interior

5. The cutting permit(s) are deemed spent upon the submission of the post-construction plan or upon either the cancellation or expiry of the activities authorized under the permit.

## CONDITIONS

## Notification

- 6. A notice of construction start must be submitted, as per the relevant Commission process at the time of submission, at least 48 hours prior to the commencement of activities under this permit.
- 7. Within 60 days of the completion of construction activities under this permit, the permit holder must submit to the Commission a post-construction plan as a shapefile and PDF plan accurately identifying the location of the total area actually disturbed under this permit. The shapefile and plan must be submitted via eSubmission.
- 8. The permit holder must notify the McLeod Lake Indian Band Land Use office two (2) working days prior to commencement. Notification will be sent to Eran Spence at

## General

- 9. The rights granted by this permit in relation to unoccupied Crown land are subject to all subsisting grants to or rights of any person made or acquired under the Coal Act, Forest Act, Land Act, Mineral Tenure Act, Petroleum and Natural Gas Act, Range Act, Water Sustainability Act or Wildlife Act, or any extension or renewal of the same.
- 10. The permit holder must not assign, sublicense or permit any person other than its employees, contractors or representatives, to use or occupy any Crown land within the activity area without the Commission's written consent.
- 11. The permit holder must ensure that any Crown land within the activity area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
- 12. The permit holder must ensure that any Crown land within the activity area is maintained free of garbage, debris and derelict equipment.

#### Environmental

- 13. Construction activities must not result in rutting, compaction or erosion of soils that cannot be reasonably rehabilitated to similar levels of soil productivity that existed on the activity area prior to the construction activities taking place.
- 14. Any temporary access must be constructed and maintained in a manner that provides for proper surface drainage, prevents pooling on the surface, and maintains slope integrity.
- 15. The permit holder must make reasonable efforts to prevent establishment of invasive plants on the activity area resulting from the carrying out of activities authorized under this permit.
- 16. Following completion of construction associated with the associated activities set out in the authorized Activities table above, the permit holder must, as soon as practicable
  - a. decompact any soils compacted by the activity;

- b. if natural surface drainage pattern was altered by the carrying out of the activity, the permit holder must restore, to the extent practicable, to the drainage pattern and its condition before the alteration;
- c. re-vegetate any exposed soil on the activity area including, where necessary, using seed or vegetative propagules of an ecologically suitable species that:
  - i. promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun, and
  - ii. stabilize the soil if it is highly susceptible to erosion.
- d. any retrievable surface soils removed from the activity area must be redistributed so that the soil structure is restored, to the extent practicable, to its condition before the activity was begun.

## **Clearing/Forest Act**

- 17. The permit holder is permitted to fell any trees located on Crown land within 1.5 tree lengths of the activity area that are considered to be a safety hazard according to Workers Compensation Act regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the activity area without causing damage to standing timber may be harvested.
- 18. The holder of the cutting permit must pay to the government, stumpage and any waste billing determined in accordance with the terms of this authorization.
- 19. The authorized cutting permit does not grant the permit holder the exclusive right to harvest Crown timber from the activity area. Authority to harvest some or all of the timber may be granted to other persons. The permit holder's right to harvest timber applies to any timber found on the site at the time they undertake harvesting activities.
- 20. All harvested Crown Timber must be marked with the cutting permit's associated Timber Mark.
- 21. Any waste assessments applied under the Master Licence to Cut are subject to the merchantability specifications and monetary waste billing requirements in the Provincial Logging Residue and Waste Manual specific to the region associated with the Cutting Permit authorization.
- 22. Stumpage for Cutting Permit No. 7 will be calculated in accordance with the Interior Appraisal Manual as amended from time to time.

## Archaeology

- 15. If an artifact, feature, material or thing protected under the *Heritage Conservation Act* is identified within the activity area, the permit holder must, unless the permit holder holds a permit under Section 12.4 of the *Heritage Conservation Act* issued by the BC Oil and Gas Commission in respect of that artifact, feature, material or thing:
  - a. Immediately cease all work in the vicinity of the artifacts, features, materials or things;
  - b. Immediately notify the BC Oil and Gas Commission; and
  - c. Resume work in the vicinity of the artifacts, features, materials or things in accordance with direction from the BC Oil and Gas Commission.
- 16. Prior to the commencement of construction activities the permit holder must:
  - a. Complete an archaeological assessment of the activity area in accordance with applicable requirements of the *Heritage Conservation Act*, and
  - b. Complete and submit to the BC Oil and Gas Commission an acceptable report on the results of the assessment.
- 17. If the report required under the condition above recommends any further assessment work on an area, the permit holder must not begin construction activities on that area until the further assessment is completed.

# ACTIVITY SPECIFIC DETAILS, PERMISSIONS AND CONDITIONS

# ASSOCIATED OIL AND GAS ACTIVITIES

# ACTIVITY DETAILS

AOGA Number: 00202281 AOGA Type: Aggregate/Borrow Pit

All authorizations for this activity are subject to the following conditions:

## Associated Oil and Gas Activity Conditions

- 18. Before commencing aggregate extraction operations at the site, the licence holder must hold a valid *Mines Act* permit applicable to those operations.
- 19. Material excavated under this permit must not be sold and must only be used for the development or maintenance of oil and gas infrastructure or related infrastructure.
- 20. The permit holder must notify the BC Oil and Gas Commission, Environmental Management & Reclamation and Permit Operations & Administration Branches, upon completion of final activities, including reclamation.
- 21. The total volume of material permitted to be extracted under this permit must not exceed 100,000 tonnes per year.
- 22. Royalties per cubic metre of aggregate removed are payable to the Ministry of Forests, Lands Natural Resource Operations and Rural Development and must be accompanied by a Statutory Declaration of volume removed, within 15 days after each anniversary date of the tenure, or termination of the permit. The permit holder shall contact the Ministry of Forests, Lands Natural Resource Operations and Rural Development for the royalty rate applied to this permit.

# ADVISORY GUIDANCE

- 1. Construction Plan CGE4703-MSI-G-MP-684-BP-PBS63\_Rev1.PDF is for the permit holder's internal reference only and was not reviewed as a decision tool for this permit, nor does it form an integral part of this permit.
- 2. Instructions for submitting notice of construction start, as required by regulation, can be found in the Oil and Gas Activity Operations Manual on the Commission's website.
- 3. Unless a condition or its context suggests otherwise, terms used in this approval have the same meaning as the Environmental Protection and Management Regulation under the *Oil and Gas Activities Act*.
- 4. Appropriate tenure may be issued upon acceptance of the post-construction plan. Submission of the original application and submission of the post-construction plan is considered an application for all subsequent applicable *Land Act* tenures. Upon the Commission's acceptance of the post-construction plan no further applications for replacement tenure are required.

All pages included in this permit and any attached documents form an integral part of this permit.

Norberto Pancera Authorized Signatory Commission Delegated Decision Maker

Copied to: Land Agent – Roy Northern Land Service Ltd. First Nations – McLeod Lake Indian Band Ministry of Forests District Office – (DPG) Prince George Natural Resource District

# 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 Number: **G-11-165** 

Mine Number: **1642084** Approval Number: **20-1642084-0819** 

Permittee: Coastal GasLink Pipeline Ltd. 450 - 1st Street SW Calgary, AB T2P 5H1

For work located at the following property:

Borrow Site 63 UTM Zone 10 N: 6041300 E: 507800E

This authorization approves mining activities as described in Mine Plan (dated August 14, 2020 - Rev. 2, submitted with the application) beginning August 20, 2020, and ending prior to August 20, 2024.

This approval and permit is subject to the appended conditions.

Date of Issuance: Thursday, August 20, 2020

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Norberto Pancera Review Approval Resource Officer BC Oil and Gas Commission

# PREAMBLE

A Notice of Work and Reclamation Program 1642084-202001 submitted Wednesday, August 19, 2020 was received by the Chief Inspector of Mines (Chief Inspector) in accordance with Part 10.1.2 of the Health, Safety and Reclamation Code for Mines in British Columbia (The Code).

Notice of Work and Reclamation Program (Application) consists of the following documents:

a. Coastal GasLink Mine Plan - Proposed Borrow Site 63 (CGL4703-CH2M-ENV-PLN-005, Rev. 2)

b. Mine Emergency Response Plan (CGL4703-SAE-SA-PLN-0005, Rev.0)

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:

- The Mines Act
- The Health, Safety and Reclamation Code for Mines in British Columbia (Code)

And shall adhere to the terms and conditions listed in:

- The Guidelines For Metal Leaching and Acid Rock Drainage at Minesites in British Columbia
- The Handbook for Mineral and Coal Exploration in British Columbia

This permit contains the requirements of the Ministry of Energy and Mines for reclamation. It is also compatible, to the extent possible, with the requirements of other provincial ministries for reclamation. 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.

# 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. <u>Reclamation Security</u>

The requirement for reclamation security as provided for in Part 10(4) of the *Mines Act* is waived, and in its place securities provided to the Oil and Gas Commission by the Permittee will be relied upon for the proper performance of the approved program, including completion of reclamation of the mine site and all the conditions of this permit, in a manner satisfactory to the Chief Inspector and in accordance with the standards described in section 10.7 of the Health, Safety and Reclamation Code for Mines in British Columbia.

## 2. <u>Volume of Material</u>

Total volume of material permitted to extract under this permit must not exceed 100,000 tonnes per year.

## 3. Land Use

The surface of the land must be reclaimed to the following land use: *Wildlife Habitat* 

## 4. Productivity

The level of land productivity to be achieved on reclaimed areas must not be less than existed prior to mining on an average property basis unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.

## 5. <u>Revegetation</u>

Land must be re-vegetated to a self-sustaining state using appropriate plant species.

## 6. <u>Use of Suitable Growth Medium</u>

- a. On all lands to be revegetated, the growth medium must satisfy land use, productivity, and water quality objectives. Topsoil and overburden (to rooting depth) must be removed from operational areas prior to any disturbance of the land and stockpiled separately on the property for use in reclamation programs, unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, that reclamation objectives can otherwise be achieved.
- b. No topsoil must be removed from the property without the specific written permission of the Inspector of Mines.

## 7. <u>Buffer Zones and Berms</u>

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

## 8. 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 must be removed,

- b. concrete foundations must be covered and revegetated unless, because of demonstrated impracticality, they have been exempted by the Inspector, and
- c. all scrap material must be disposed of in a manner acceptable to the Inspector.

#### 9. <u>Watercourses</u>

- a. Impacts to watercourses are not authorized under this approval.
- b. Water which flows from disturbed areas must be collected and diverted into settling ponds.

#### 10. <u>Roads</u>

- a. All roads must be reclaimed in accordance with land use objectives unless permanent access is required to be maintained.
- b. Individual roads will be exempted from the requirement for total reclamation under condition 10 (a) if either:
  - i. the Permittee can demonstrate that an agency of the Crown has explicitly accepted responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road, or
  - ii. the Permittee can demonstrate that another private party has explicitly agreed to accept responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road and has, in this regard, agreed to comply with all the terms and conditions, including bonding provisions, of this reclamation permit, and to comply with all other relevant provincial government (and federal government) regulatory requirements.

#### 11. Disposal of Fuels and Toxic Chemicals

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

## 12. <u>Temporary Shutdown</u>

If this sand and gravel pit ceases operation for a period longer than one year the Permittee must 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.

## 13. <u>Safety Provisions</u>

All safety and other provisions of the **Mines Act** must be complied with to the satisfaction of the Chief Inspector.

## 14. <u>Monitoring</u>

The Permittee must undertake monitoring programs, as required by the Inspector of Mines, to demonstrate that reclamation objectives are being achieved.

#### 15. <u>Alterations to the Program</u>

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

#### 16. <u>Notice of Closure</u>

Pursuant to Part 10.6.1 of the Health, Safety and Reclamation Code for Mines in British Columbia,

a Notice of Completion of Work must be filed with the Inspector of Mines not less than seven days prior to cessation of work.

#### 17. Annual Report

a. Annual reports must be submitted in a form and containing the information as and if required by the Inspector of Mines.

#### 18. <u>Site Stability</u>

- a. The inspector must 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 must be maintained at all times and erosion must be controlled at all times.
- c. Mining activities on slopes with a terrain classification of IV or greater must have an engineered design prior to the commencement of these activities.
- d. The discovery of any significant subsurface flows of water, seeps, substantial amounts of fine textured, soils, silts and clays, must be reported to the inspector as soon as possible and work must cease until the inspector advises otherwise.

#### 19. <u>Training and Orientation</u>

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

#### 20. <u>Hazards and Confined Spaces</u>

The Manager must ensure hazardous areas and confined spaces on the mine site are identified and documented in a formal report.

Confined spaces must be clearly marked near the entrances to the confined space. Upon completion of the report, the report must be provided to all emergency responders (police, fire, ambulance, etc.) that may potentially enter the mine site.

#### 21. Guarding of Equipment

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 must be effectively enclosed, covered, or guarded.

## 22. Mine Emergency Response Plan (MERP)

An emergency response plan must be developed and implemented prior to commencement of exploration activities. In addition to addressing daily operational issues, the plan must specifically address emergency evacuation of personnel due to injury and forest fire hazard. All persons on the mine site must be familiar with the MERP. The plan must be available on site for review.

## 23. Access Control

The Manager must ensure, pursuant to section 1.3 of the Health, Safety and Reclamation Code for Mines in British Columbia, other than an inspector, only persons authorized by the manager must enter or be permitted to enter the mine site. This must be accomplished through the use of locked gates or other suitable means. In addition, notice to this effect must be posted at all road entrances to the mine.

## 24. Environmental Protection

- a. The Permittee must ensure an adequate erosion and sediment control plan is developed and implemented by a qualified person prior to commencement of approved activities. This plan must be updated by a qualified person, consistent with mining operations, throughout the life of the mine. This plan will be made available to an Inspector upon request.
- b. Silt laden water must be suitably contained on the mine site and not be allowed access to any watercourse or stream.
- c. Dust originating from the mine site must be controlled at the source to the satisfaction of the regional Inspector. Dust must not be allowed to impact adjacent private properties.
- d. All roads must be appropriately constructed and top dressed such that dust is controlled. A sprinkler system or water truck must be utilized to ensure dust control.
- e. Excessive noise must be controlled at the source. Adequate mufflers must be utilized on equipment to eliminate excessive noise.
- f. All activities on the mine site must be designed and conducted such that impacts to wildlife are eliminated or minimized.

## 25. <u>Authorizations from Other Agencies</u>

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.

## 26. <u>Compliance</u>

All activities on the mine site must comply with terms and conditions listed in:

- a. the Mines Act,
- b. the Health, Safety and Reclamation Code for Mines in British Columbia, and
- c. the Metal Leaching and Acid Rock Drainage Guidelines for Mines in British Columbia

## 27. Fuels and Lubricants

Handling, transportation, and storage of all fuels and lubricants must conform to the requirements of: *A Field Guide to Fuel, Handling, Transportation and Storage*. (Ministry of Water, Land and Air Protection, 3<sup>rd</sup> Edition, February 2002).

The Permittee must 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 must, at a minimum, account for the following:

- a. Fuel and lubricants must be delivered to site as needed to re-supply and oil tanks on mobile and fixed equipment.
- b. Impermeable, oil absorbent matting must be used when refueling and servicing equipment.
- c. While refueling the operator must 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 must be forthwith collected and removed for appropriate disposal.
- e. Fuel or oil leaks on equipment must be effectively repaired as soon as they are discovered or the equipment must be removed from the site and not operated until repairs have been made.
- f. An emergency spill containment and clean up kit must be maintained at the site while it is in operation. The kit must 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%

#### 28. Chance Find Plan

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

#### 29. Property Boundaries

A minimum of 5 meters (horizontal) buffer of undisturbed land must be maintained between property boundaries pursuant to part 10.5.8 of the Health, Safety and Reclamation Code for Mines in British Columbia.

## 30. <u>Groundwater Table</u>

The manager must ensure sand and gravel is not excavated below a depth 1.5 meter above the high ground water table.

## 31. Crushing Activities

The manager must ensure a seven day notification is provided to the Regional Inspector of Mines prior to initiating any crushing activities on the mine site.

#### 32. <u>Reclamation</u>

- a. The Permittee must salvage and stockpile all available topsoil, overburden, and organic material including large woody debris in the disturbance footprint for use in reclamation.
- b. The Permittee must protect stockpiles from erosion, degradation, and contamination through re-vegetation and/or other practices.
- c. The Permittee must ensure that stockpiles are clearly marked to ensure that they are protected during construction and mine operations.
- d. Stripped and stockpiled soil suitable for use in reclamation must not be used as fill.
- e. Progressive reclamation must be conducted whenever practicable. Reclamation activities must include:

- i. Re-contouring of disturbed areas to achieve surfaces to pre- disturbance shapes.
- ii. Compact surfaces must be de-compacted to allow water infiltration and achieve self-staining vegetation.
- iii. Soil Material salvages prior to the construction of the site must be replaced and must:
  - a. be rough and loose with abundant microsites to facilitated the lodging and germination of seeds;
  - b. be keyed into the under laying materials such that they do not slump off;
  - c. incorporate roots, stumps and other woody debris to reduce erosion and create greater biological diversity; and
  - d. be re-vegetated promptly.

The mine site must be returned to a forested state.

#### 33. <u>Receiving Foreign Materials</u>

The Manager must not allow any foreign materials to be accepted or stored on the mine site including but not limited to garbage, refuse, concrete, asphalt, other soils unless authorized in writing by the regional Inspector.

#### 34. Invasive Plants

The Permittee must prevent introduction of invasive plants to the disturbance footprint, including topsoil stockpiles, and control invasive plants that do establish on the site, including via monitoring to identify establishment of invasive species and reporting of outbreaks.

#### 35. <u>Documentation</u>

A copy of all permits and authorizations issued with respect to the mining activities shall be maintained at the mine site while mining activities are taking place.