

**COASTAL GASLINK PIPELINE PROJECT
(PROJECT)**

SCHEDULE A

**CERTIFIED PROJECT DESCRIPTION
FOR
AN ENVIRONMENTAL ASSESSMENT CERTIFICATE**

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1. OVERVIEW

The Coastal GasLink Pipeline Project (Project) will consist of a natural gas transmission pipeline and associated infrastructure, extending from near Groundbirch, BC (55.7997N-120.8907W, eastern terminus) to Kitimat, BC (54.0292N-128.6842W, western terminus).

The Project will include the following infrastructure:

- one sweet natural gas¹ pipeline and associated components;
- up to eight compressor stations and associated components including permanent access roads and bridges;
- meter stations at up to three locations and associated components including permanent access roads and bridges;
- communications towers; and
- ancillary facilities which will include: construction camp sites, pipe stockpile sites, log storage sites, rail sidings, contractor storage yards, laydown areas, borrow sites, hydrostatic test fill lines, upgraded roads and bridges, and temporary access roads and workspace.

The attached maps 1 to 135 in Appendix A show the locations in which all Project infrastructure will be situated, with the exception of ancillary facilities.

2. PIPELINE

The pipeline must only transport sweet natural gas. The pipeline will have a Nominal Pipe Size of 48 inches (1,219 mm Outside Diameter).

2.1 Location

The actual width of the construction and operation right of way will vary depending on the particular terrain conditions encountered, but must be within the Certified Pipeline Corridor set out in Appendix A.

¹ Sweet natural gas refers to natural gas that meets natural gas transmission pipeline quality specifications, containing either zero or trace amounts of hydrogen sulphide, carbon dioxide, or natural gas liquids (as defined in CSA Z662).

Where two options for the Certified Pipeline Corridor are set out in Appendix A on maps 59, 60, 84, 120 and 121, the pipeline must be constructed within one of the options, not both.

2.2 Pipeline Components

Project components related to pipeline construction and operations include:

- mainline valves to enable isolation of the pipeline sections and to facilitate system operations and maintenance;
- suction and discharge valves, to connect compressor stations to the pipeline;
- supervisory control and data acquisition system, linking pipeline and compressor facilities to the existing TransCanada Operations Control Centre;
- in-line inspection facilities including valves, launchers and receivers;
- cathodic protection, to protect the pipeline from electrochemical corrosion; and
- telecommunications systems, to safely operate and maintain the pipeline.

3. COMPRESSOR STATIONS

The Project will include up to a maximum of eight natural gas fired turbo-compressor stations, each of which will include up to six 34 megawatt (MW) natural gas powered compressor units, to a maximum of 32 compressor units in total. The maximum number of units at each compressor station is shown in Table 1.

3.1 Location

The compressor stations will be at the locations identified in Table 1 and shown in Appendix A on maps 1, 18, 33, 50, 67, 85, 101 and 118.

Table 1. Compressor station location and compressor configuration

Compressor Station Location (maximum ha)	Compressor Configuration
Wilde Lake (63 ha)	Up to six natural 34 MW gas fired turbo-compressor units
Sukunka Falls (17 ha)	Up to four 34 MW natural gas fired turbo-compressor units with
Mount Bracey (19 ha)	Up to four 34 MW natural gas fired turbo-compressor units

Compressor Station Location (maximum ha)	Compressor Configuration
Raccoon Lake (17 ha)	Up to four 34 MW natural gas fired turbo-compressor units
Clear Creek (17 ha)	Up to three 34 MW natural gas fired turbo-compressor units
Segundo Lake (19 ha)	Up to four 34 MW natural gas fired turbo-compressor units
Goosly Falls (19 ha)	Up to four 34 MW natural gas fired turbo-compressor units
Titanium Peak (19 ha)	Up to three 34 MW natural gas fired turbo-compressor units

3.2 Components

The compressor stations include the following components:

- natural gas fired turbo-compressor units;
- discharge gas coolers;
- inlet gas separator;
- high pressure yard piping;
- isolation valves;
- mainline block valves;
- vent stack;
- cathodic protection;
- fuel gas systems;
- sub-systems including:
 - auxiliary power generator;
 - electrical equipment including switchgear, uninterruptable power system, controls, and batteries;
 - control systems;
 - utility power electrical connection and transformer;
 - instrument air;
 - heating;

- supervisory control and data acquisition;
- telecommunications; and
- security;
- office, personnel and storage buildings;
- operations and maintenance living quarters; and
- permanent access roads and bridges.

4. METER STATIONS

The Project includes meter stations at a maximum of three locations. The meter stations will be required to determine the volume of natural gas being transported in the pipeline, and to monitor natural gas quality.

4.1 Location

The meter stations will be located at the following locations, and shown on maps 1, 60-61, and 134.

Table 2. Meter station locations and maximum area

Meter Station General Location	Maximum Area, Approximate Kilometre Post, Latitude/Longitude
Near Groundbirch	4 ha, KP 0.0, Lat: 55° 47' 58", Long: 120° 53' 27"
Near Vanderhoof	10 ha, KP 300.0, Lat: 54° 9' 47", Long: 123° 42' 49"
Near Kitimat	10 ha, KP 656.5, Lat: 54° 3' 31", Long: 12 8° 34' 44"

4.2 Components

The meter stations include the following components:

- metering runs;
- isolation valves and vent systems;
- high pressure yard piping;
- inlet gas separator;

- cathodic protection;
- gas quality instrumentation;
- supervisory control and data acquisition;
- telecommunications;
- instrument and personnel buildings; and
- permanent access roads and bridges.

5. ANCILLARY FACILITIES

The Project includes a variety of ancillary facilities to support construction and operation.

5.1 Location

The exact spatial location of ancillary facilities will be determined through subsequent permitting processes.

5.2 Components

Ancillary facilities include:

- up to 18 construction camps to house workers during construction and pioneer camps at specific locations along the construction corridor requiring smaller specialized crews;
- construction camps on average will be approximately 25 ha in area and able to support up to approximately 1200 workers;
- temporary access roads and bridges;
- temporary storage areas used throughout construction for pipe storage, construction storage, contractor offices and equipment laydown;
- stockpile sites to store pipe and materials during construction, with an average area of approximately 25 ha located as close as practical to the Certified Pipeline Corridor;
- contractor storage yards to store equipment and supplies during construction, on average approximately 20 ha in size, where practical, integrated with main construction camps or stockpile sites;

- laydown yards to setup and teardown construction equipment at an average size of approximately 4 ha;
- rail sidings to offload and store pipe;
- borrow sites to provide granular material for construction;
- sites to place excess granular material; and
- hydrostatic test fill lines to transport water for testing the pipeline.