

LNG CANADA EXPORT TERMINAL PROJECT

SCHEDULE A

CERTIFIED PROJECT DESCRIPTION FOR AN ENVIRONMENTAL ASSESSMENT CERTIFICATE

1 PROJECT OVERVIEW

The LNG Canada Export Terminal Project (Project) is comprised of the following components:

- Liquefied natural gas (LNG) facility and supporting infrastructure;
- Temporary construction-related infrastructure and facilities; and
- Shipping.

These components are described more fully below.

The LNG facility is located in the District of Kitimat. Unless otherwise specified, all project components are located within the areas specified on Figures 1 to 3.

2 LNG FACILITY AND SUPPORTING INFRASTRUCTURE

The LNG facility includes: the LNG processing and storage site; the LNG loading and circulation system; the marine terminal; and, supporting infrastructure.

The Certified Project Area, as shown on Figure 1, comprises the Certified LNG Facility Area, Certified Marine Terminal Area, Certified Dredge Area, Certified Water Supply Corridor, Certified Conveyor Corridor, and Certified Accommodation Area.

The components related to the LNG processing and storage site are located within the Certified LNG Facility Area on Figure 1. The components related to the LNG processing and storage site are:

- Natural gas inlet station;
- Up to four natural gas liquefaction trains (also called processing units), comprised of gas treatment and liquefaction facilities with a maximum total combined production of LNG that does not exceed the volume authorized in the Licence to Export LNG number GL-300 pursuant to Section 117 of the *National Energy Board Act*;
- Up to two containment storage LNG tanks with a net capacity of up to 250,000 m³ each;
- Up to two condensate storage tanks with a total net capacity of up to 25,000 m³;
- Freshwater cooling towers; and
- Flare systems, including a total of up to two flare derricks of no greater than 135 m in height each.

Each natural gas liquefaction train uses natural gas powered turbines. The remainder of the LNG facility and terminal's electrical power is sourced from BC Hydro.

The components related to the LNG loading system are located from the Certified LNG Facility Area to the wharf, within the Certified Marine Terminal Area on Figure 1. The components related to the LNG loading system are:

- Up to two parallel loading lines;
- Up to two vapour return lines; and
- Supporting utility lines located on an elevated trestle structure.

The components related to the marine terminal are located within the Certified Marine Terminal Area on Figure 1. The components related to the marine terminal are:

- Up to two LNG carrier berths, each able to accommodate one LNG carrier with a length of up to 345 m; and
- A materials offloading facility.

Dredging for the construction and operation of the marine terminal must occur within the Certified Dredge Area as shown on Figure 1. During construction up to 3.5 million m³ of material may be dredged within the Certified Dredge Area. Any disposal at sea of dredgeate during construction must occur at the Certified Disposal at Sea Area on Figure 2. During operations, maintenance dredging may occur. The location of any disposal at sea of dredgeate required for operations is not restricted to the Certified Disposal at Sea Area on Figure 2.

A water supply intake and pipeline is located within the Certified Water Supply Corridor on Figure 1. The freshwater supply pipeline will transport the water from the intake station to the LNG facility within a permanent right-of-way no greater than 30 m wide. The maximum water withdrawal from the water intake is 70,000 m³/day.

Supporting permanent infrastructure within the Certified Project Area on Figure 1 are:

- Modifications, including extensions, to existing railway tracks;
- Wastewater pipeline to Kitimat harbour;
- Infrastructure to bring power to the Certified LNG Facility Area;
- Main administration building(s), control room(s), workshop(s), and warehouse(s);
- Cooling water supply and treatment, and return;
- Fire water system;
- Waste solids collection and disposal;

- Wastewater collection, treatment and discharge; and
- Storm water management and discharge facilities.

The Project includes upgrades to existing access roads within and outside the Certified Project Area on Figure 1.

3 CONSTRUCTION INFRASTRUCTURE AND FACILITIES

Within the Certified Project Area on Figure 1 the Project includes the following construction-related infrastructure and facilities:

- Concrete batch plant(s);
- Temporary buildings to house administration offices, temporary medical facilities, sanitary facilities, and shipping and receiving warehouse;
- Temporary construction roads;
- Early offloading facility;
- Temporary utilities to support construction, including water, power, gas and sewage; and
- Other temporary infrastructure includes roads, site drainage systems, and fencing.

A conveyor may be constructed from the quarry known as Sandhill Materials to the facility along the Certified Conveyor Corridor on Figure 1.

The Project includes temporary laydown areas or suitable stockpile sites to stage or store construction materials within and outside the Certified Project Area on Figure 1.

The workforce accommodation centre is located in the Certified Accommodation Area on Figure 1, and can accommodate up to 7,500 people.

4 SHIPPING

The LNG Canada marine access route to the port of Kitimat is the Certified Marine Route on Figure 3. This route must be used by all LNG carriers transiting to or from the Project, unless due to exceptional circumstances. LNG carriers will leave or enter the route in the Certified Pilot Boarding Zone on Figure 3. Any variation from the Certified Marine Route on Figure 3 must be recorded and identified to EAO within 72 hours, unless otherwise directed by EAO.

