

**MURRAY RIVER COAL PROJECT
(PROJECT)**

SCHEDULE A

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

OVERVIEW

Project infrastructure for the Murray River Coal Project (Project) will be located in five areas:

- Underground mine;
- Decline site;
- Shaft site;
- Coal processing site; and
- Secondary shaft site.

The components for each site are described below. All Project components are located in the named areas specified on Figures 1 and 2. Project components will be located outside of the riparian areas as defined in condition 6 (Riparian Buffers) and on Figure 2.

UNDERGROUND MINE

- Underground mine panels;
- Longwall exclusion zones (no mining panels will occur underneath the exclusion zones);
- Service decline with its surface portal located at the decline site;
- Shaft with its surface portal located at the shaft site;
- Production decline with its surface portal located at the coal processing site;
- Two ventilation shafts with their surface portals located at the secondary shafts site;
- Underground operations hub located at the base of the service decline;
- Mainline tunnel system, including entries for:
 - Conveyors transporting coal from the mining face to the coal preparation plant (CPP);
 - Travelways for personnel and equipment; and
 - Underground mine ventilation.
- Underground water management system directing water to a central sump near the underground operations hub;
 - Pumping/piping system for water distribution up both the Production Decline (to provide make-up water to the CPP) and the service decline (where excess water will be discharged to the exfiltration gallery).

- Coalbed methane drainage system inter-connected through the mine, with venting to surface.

DECLINE SITE

- Service decline portal and hoist house;
- Equipment assembly and maintenance shops;
- Diesel storage tanks and fuel station;
- Natural gas storage tank;
- 230kV transmission line from BC Hydro grid;
- Emergency diesel generators;
- Electrical substation;
- Office/administration buildings complex and mine dry;
- Decline conveyor;
- Truck load-out;
- Water treatment facilities, including a sedimentation pond and discharge exfiltration galleries. Discharge of excess contact water to surface will occur via the exfiltration gallery following treatment for removal of suspended solids;
- Contact water collection ditches, sedimentation pond(s), and water management structures;
- Non-contact water diversion ditch network and water management structures;
- Sewage treatment and disposal facilities;
- Water supply facilities; and
- Overburden and soil storage areas.

SHAFT SITE

- Shaft;
- A waste rock pile on a lined waste rock storage pad;
- Main ventilation fans;
- 10 kV transmission line from main electrical substation at Decline Site;
- Exfiltration gallery to M20 creek;
- Contact water collection ditches, sedimentation pond(s), and water management structures;
- Non-contact water diversion ditch network and water management structures;

- Overburden and soil storage areas; and
- Coalbed methane drainage pumping system.

COAL PROCESSING SITE

- Raw coal stockpile;
- CPP;
- Coarse Coal Reject (CCR) piles with geomembrane liners;
- Clean coal stockpile;
- Covered conveyor transport system (with dust suppression sprays and belt cleaners at each transfer point) amongst the production decline portal, raw coal stockpiles, CPP, clean coal stock piles, CCR piles and rail loadout;
- Electrical substation supplied by transmission lines routed through the underground mine;
- Buried flotation reagent tanks;
- Natural gas pipeline from existing network near Highway 52 to CPP;
- Rail loadout within existing rail right-of-way;
- Contact water collection ditches, sedimentation pond(s), and water management structures, including a discharge pipeline to decline site (via underground mine);
- Non-contact water diversion ditch network and water management structures;
- Sewage treatment and disposal facilities;
- Water supply facilities; and
- Overburden and soil storage areas.

SECONDARY SHAFT SITE

- Intake air shaft;
- Return air shaft;
- Ventilation fans and electrical equipment;
- Coalbed methane drainage pumping system;
- Contact water collection ditches, sedimentation pond(s), and water management structures.

- Non-contact water diversion ditch network and water management structures; and
- Overburden and soil storage areas.

Figure 1 Project Overview

Figure 2 Surface Infrastructure Layout

Figure 1
Project Overview

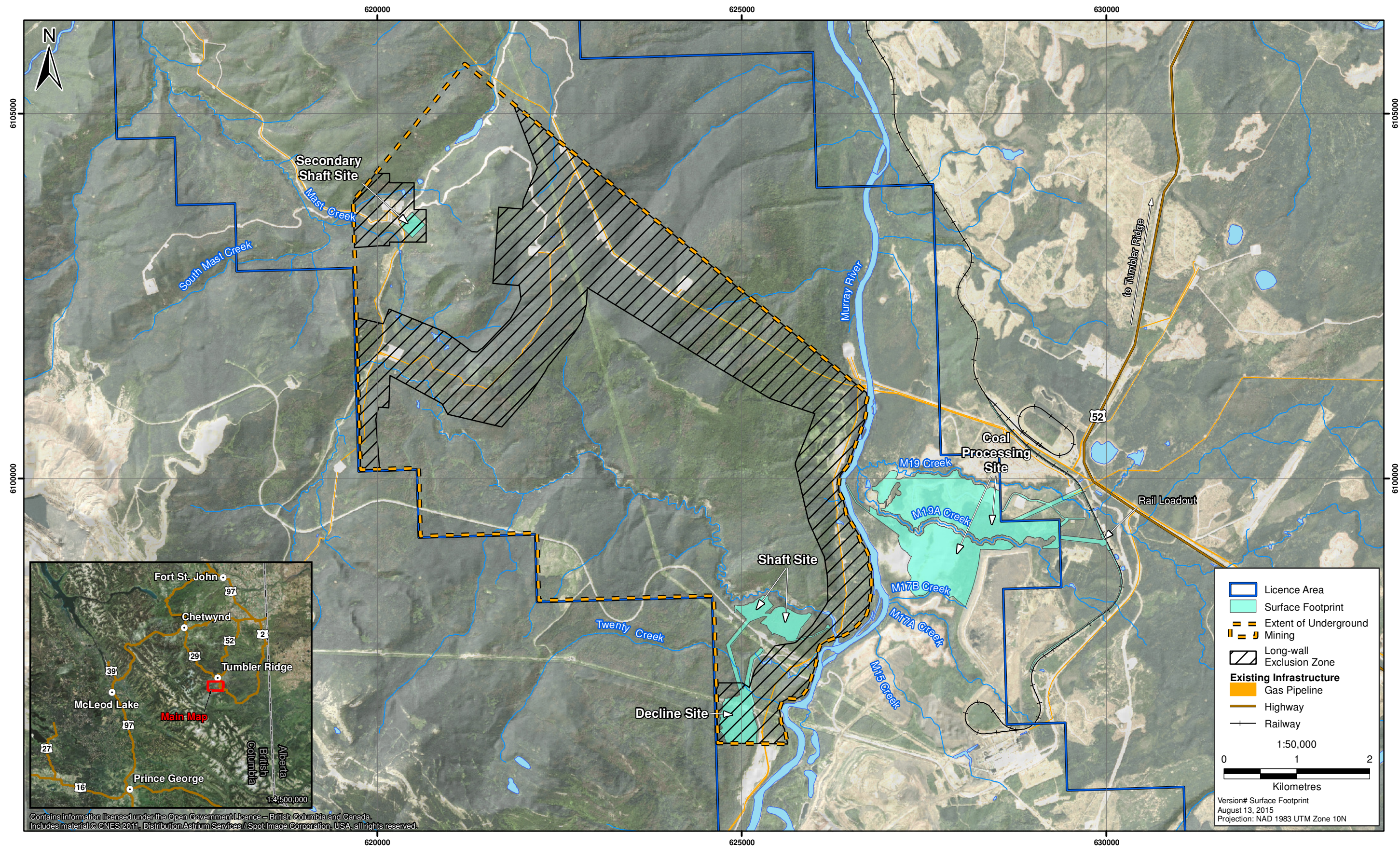


Figure 2
Surface Infrastructure Layout

