

MINERALS AND AGGREGATES

VOLUME 3, SECTION 23

The Environmental Impact Statement (EIS) details the environmental assessment undertaken for the Site C Clean Energy project. The EIS includes the project rationale, identifies potential effects and proposes measures to avoid or mitigate these effects. The EIS also describes the benefits Site C would provide for customers, Aboriginal groups, northern communities and the province as a whole.

ABOUT THE ASSESSMENT

The assessment on minerals and aggregates considers changes to land use, resource use, and access, the project's use of local aggregate for construction activities, and any new or improved access to aggregate sources created by the project. The assessment analyzes:

- Metal, industrial mineral and aggregate potential
- Record of exploration and development
- Historic production record
- Remaining mine or pit life
- Existing mineral and aggregate tenures
- Mineral reserves

In addition, analysis of the project's consumption of local aggregate deposits for construction activities considers:

- The volume of aggregate material expected to be purchased by the project relative to local market conditions
- Local and regional aggregate pricing and current and forecast consumption profile
- Any new or improved access to aggregate sources created by the project assessment area

ASSESSMENT AREA

The local assessment area is the project activity zone, plus the area within the Five-Year Beach Line, which is the area where the project occupation of the land base would interact with the exploration or development of minerals and aggregates.

The regional assessment area is the north Peace area, including the City of Fort St. John, the districts of Taylor and Hudson's Hope, and Peace River Regional District Area C.



SUMMARY OF POTENTIAL EFFECTS AND MITIGATION MEASURES

POTENTIAL EFFECTS	KEY MITIGATION MEASURES
Change to land use, resource use, access, and activities related to industrial mineral and aggregate utilization during construction	<ul style="list-style-type: none"> • Negotiate a Memorandum of Understanding (MOU) with the BC Ministry of Transportation and Infrastructure to compensate for material used by the Project and to maintain material availability for ministry operational needs. MOU to include: <ul style="list-style-type: none"> ○ Aggregate source strategy to compensate for inundated Ministry aggregate sources ○ BC Hydro commitment to stockpile surplus rock material at the West Pine, Wuthrich, and Portage quarries and make them available for other aggregate users

KEY FINDINGS

No residual adverse effects on minerals and aggregates are anticipated following application of the proposed mitigation measures and conclusion of agreements where appropriate with effected third party mineral and aggregate tenure holders.



ABOUT THE SITE C CLEAN ENERGY PROJECT

Site C is a proposed third dam and hydroelectric generating station on the Peace River in northeast B.C. Site C would provide 1,100 megawatts (MW) of capacity, and produce about 5,100 gigawatt hours (GWh) of electricity each year – enough energy to power the equivalent of about 450,000 homes per year in B.C.

Site C is undergoing a cooperative environmental assessment by the Canadian Environmental Assessment Agency (CEA Agency) and the British Columbia Environmental Assessment Office (EAO). The environmental assessment process commenced in August 2011 and is anticipated to take approximately three years to complete.

FOR MORE INFORMATION visit bchydro.com/sitec

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