
TITLE	ISR Application for a Type A Water Licence
SECTION	3: Overview of Activities in the ISR
SUBJECT	5: Project Activities – Borrow Sites

SCOPE

Natural materials needed to construct the project will be obtained from new and existing borrow sites, commonly known as sand or gravel pits and rock quarries. These sources will be accessed along the proposed gathering pipeline corridors.

About five million cubic metres of borrow materials will be required for the project, including the gathering pipeline rights-of-way, access roads and facility sites. Of this project total, an estimated 1,332,000 m³ of borrow material will be needed for the ISR development and the three anchor fields. The Mackenzie gas project is developing some sites on behalf of the anchor field owners.

About 127 potential borrow sites have been identified for the project. This includes 15 potential sites in the ISR. Seven are on Inuvialuit private lands (see [Table 3-5](#)). An estimated 35,780,000 m³ of borrow material could be obtained from the 15 sources. The sites could provide about 1,816,000 m³.

Table 3-5: Summary of Potential Borrow Sites in the ISR

Borrow Source	Potential Borrow Material	Existing	Land Ownership^a	Expected Years In Use^b	Land Use Designation
1.002P	Sand	No	Crown	2009	Inuvialuit Management Category "C"
2.025P	Sand and gravel	No	Crown	2007-09	Inuvialuit Management Category "C"
2.028P	Sand and gravel	Yes	Crown	2007-09	Inuvialuit Management Category "C"
2.022P	Sand and gravel	No	Crown	2007-09	Inuvialuit Management Category "C"
2.020P	Sand and gravel	No	Crown	2007-09	Inuvialuit Management Category "C"
2.029P	Sand and gravel	Yes	Crown	2007-09	Inuvialuit Management Category "C"
2.029PB	Sand and gravel	Yes	Crown	2007-09	Inuvialuit Management Category "C"
20.038P	Shale Quarry	No	Crown	2007-09	Inuvialuit Management Category "B"
1.004P	Sand and gravel	Yes	Private	2007-08	Inuvialuit Management Category "C"

Table 3-5: Summary of Potential Borrow Sites in the ISR (cont'd)

Borrow Source	Potential Borrow Material	Existing	Land Ownership^a	Expected Years In Use^b	Land Use Designation
1.005P	Sand and gravel	No	Private	2007-09	Inuvialuit Management Category "C"
1.008P	Sand and gravel	Yes	Private	2007-09	Inuvialuit Management Category "C"
1.009P	Sand and gravel	Yes	Private	2007-09	Inuvialuit Management Category "C"
2.008PA	Sand and gravel	No	Private	2007-09	Inuvialuit Management Category "C"
2.008PB	Sand and gravel	No	Private	2007-09	Inuvialuit Management Category "C"
2.017P	Sand and gravel	Yes	Private	2007-09	Inuvialuit Management Category "C"
NOTES: ^a Borrow sites on Crown land are highlighted in bold lettering. ^b Some of these borrow sites might be used during the operations phase.					

Borrow Site Development

A typical borrow site development is depicted in [Figure 3-6](#).

The development schedule for borrow sites will be determined by project needs during construction. Some borrow sites will also be used during operations. The sites will be developed as needed for the project components they will supply and will be reclaimed as the project work progresses.

The schedule at each site will be influenced by the ice content of the borrow material. Sites with a high ice content might be excavated one year in advance, with the borrow material likely to be excavated and stockpiled. The piles of high ice content material might be allowed to melt and drain over the summer for use the following winter. Other activities that might be required at various borrow sites during the summer include stripping overburden, excavating borrow material and stockpiling.

Most borrow sites will have material that will meet the applicable specifications for road and pad construction. However, where the material does not meet specifications for gathering pipeline backfill, it will be crushed or screened during site excavation. Materials might be screened to separate borrow material for different uses. Large material might be crushed to make it suitable for use on the project.

Figure 3.6 has been moved to reduce file size. To view it, click on the link to the figure in the web page List of Figures for this document.

