



Date: June 11, 2020  
Nunavut Impact review board  
P.O. Box 1360  
Cambridge bay, NU  
X0B 0C0

RE: NON-Technical project proposal description -Whale Cove quarry site #1, 2 and 3

Whale Cove quarry sites #1, 2 and 3 are proposed sites currently being explored by the Government of Nunavut and the Hamlet of Whale Cove to extract aggregate (gravel, sand, rock, riprap etc.) to meet the construction demands of the community. Both the Hamlet and members of the public will use these sites to extract aggregate. The use of aggregate will vary widely. The Hamlet will use it for municipal purposes such as road construction and maintenance. The public will use it for private purposes. These sites will be used in the summer months (June-September) of each year until all the aggregate is extracted. The frequency of use will depend on the construction projects in Whale Cove for that year.

All the aggregate within the quarry sites is loose soil; extraction will be done by CAT excavators and wheel loaders. Dump trucks of varying make and model will be used to haul aggregate to and from the quarry site. There is an existing road that will be used to access all sites. There are no plans to construct permanent structures within the quarries, no fuel will be stored at any site, no blasting of rock outcrops is planned, and no use of water will occur.

There are no heritage sites, sports and commercial fishing areas, migration routes, protected wildlife areas or sites of cultural or historical significance, or areas of natural beauty within or around any of the quarry sites.

All sites are located on untitled municipal land which is administered by the department of Community and Government Services (CGS). Once approval from the Nunavut Impact Review Board (NIRB) is obtained for all the sites, CGS will go into a quarry administration agreement (QAA) with the Hamlet, which allow them to issue quarry permits instead of CGS. The Hamlet will stockpile the aggregate and then members of the public will obtain quarry permits from the Hamlet. The fees from these permits will be stored in a Hamlet financial account which will be used to maintain the road to the quarry site, cover administrative costs, and to remediate the quarry.

The quarry permits issued by the Hamlet will contain the following conditions:

1. No extraction of aggregate will occur within 31 metres of any waterbody.
2. The contractor will inform the Hamlet the date and time when they plan to extract the material to ensure the Hamlet, if deemed necessary, supervise the extraction of aggregate.



3. The extraction of aggregate and their surroundings, is done in an environmentally sound manner that is satisfactory to the Hamlet and/or NIRB
4. Excavation is not to occur outside of the established quarry boundary.
5. Stockpiling of aggregate will be located at least 31 metres from any waterbody to avoid water siltation and obstruction.
6. Access to and from the quarry site will only be done through designated roads.
7. Once extraction of aggregate is complete then the contractor will remove all types of their equipment from the site and slops grade reduction with use of unsuitable stockpiles and uncrushed rocks.
8. The contractor will follow the fuel spill plan.

### Whale Cove quarry site #3

This quarry is located 10.5 kilometers north of Whale Cove and 3.6 kilometers north of the airport terminal building. It contains an estimated volume of 50,000 cubic metres (m<sup>3</sup>) of aggregate.

The quarry borders two large waterbodies. One to the north and one to the south. Both are non-navigable. The northern waterbody has dimensions of 401 metres x 161 metres and the southern waterbody has dimensions of 800 metres x 387 metres. To ensure the extraction process does not disturb the natural boundary of these waterbodies, a 31 metre buffer zone between the quarry and the waterbodies will be maintained.

quarry site #3 is the closest site to the community. Coupled with the fact that it contains aggregate that can be used for Hamlet operations and for private construction in reasonable quantities, it is a desirable site for the Hamlet of Whale Cove and CGS.

### Whale Cove quarry site #2

This quarry is located 12.1 kilometers north of Whale Cove and 5.1 kilometres north of the airport terminal building. It contains an estimated volume of 100,000 m<sup>3</sup> of aggregate.

There is a non-navigable waterbody approximately 50 metres north of the site. It has dimensions of 900 metres x 237 metres. Between the quarry boundary and this waterbody is a large rock outcrop that will act as a natural buffer. Regardless of this rock outcrop, a 31 metre buffer zone between aggregate extraction and the waterbody will be maintained.



Department of Community and Government Services  
Nunalingni Kavamatkunnilu Pivikhaqautikkut  
Ministère des Services Communautaires et gouvernementaux

This site is the furthest from the community but due to the limited aggregate deposit within the Whale Cove municipal boundary, this site will be used as a last resort.

(867) 645-8115  
 (867) 645-8143  
[www.gov.nu.ca](http://www.gov.nu.ca)