

APPLICATION FOR WATER LICENSE AMENDMENT

Description of the Undertaking

Road between Clyde River and Cape Christian

A Water License (8BW-CLY0810) was awarded to Qikiqtaaluk Corporation for the repair of the road between Clyde River and Cape Christian on March 3, 2009. The objectives of this project was to repair the 10 km abandoned road between Clyde River and Cape Christian in order to use said road for crew rotation and resupply to a construction camp that was installed at Cape Christian in June 2009 to support the clean up activities to be conducted in 2009 and 2010 summer seasons (a separate Land Use Permit and Water License was obtained by INAC for that project). Qikiqtaaluk Logistics (QL), a 100% owned subsidiary of Qikiqtaaluk Corporation was awarded a contract from Public Work and Government Services Canada to clean up the abandoned site at Cape Christian in October 2007.

The road needs to be repaired to allow for a 4 by 4 mini-Van truck to travel back and forth on a daily basis from early July to mid-September in order to carry man-power, food supplies, parts and other miscellaneous supplies required for the clean-up project. The rationale was to maximize the involvement of the people from the community in the clean up work, as they were the most impacted in the past. Another rationale was for Qikiqtaaluk Corporation, the birthright development arm of QIA, to cede said infrastructures to the community after the project (an internal investment of more than half a million dollars by QC) for the local people to have an easier access to their traditional hunting areas and remote cabins.

The initial project involved the placement of gravel as needed on the road surface and the construction of a bridge. Stockpiles of gravel are already available beside the road and if more is needed, granular fill is obtained from the Municipality. A crew of about 6 operators is conducting the work. The following equipment is being used:

Equipment	Number	Size	Purpose
Bulldozer	2	Cat D6	Push and level gravel
Excavator	1	Cat 320BL	Dig trenches, excavate gravel
Loader	1	Cat 950	Haul culverts, load gravel in dump truck
Dump truck	2	Cat D250	Haul gravel from borrow sources to road and creek crossings

Waste is not being generated by the project because workers are travelling back and forth daily to Clyde River (or the construction camp at Cape Christian) and therefore any sewage and/or solid waste is managed by the Municipal facilities or under the clean up project Land Use Permit and Water License requirements.

Based on the existing license, the work was initiated in June 2009. In mid-June, it was observed that part of the existing road path was flooded due to river burst and was therefore not usable. It was then proposed by QL's project director, Harry Flaherty, to re-route part of this road to avoid such problems in the future. In early July 2009, the bridge construction was initiated and was completed in July 18. Some work was done after on the road and with the dry conditions experienced in late July, said road was in good enough condition to allow the passage of any vehicle, not just 4-wheelers.

However, starting early August, very wet weather (rain and fog) have created conditions for which the passage of vehicles started creating severe damage and ruts, and where mud was accumulating to a point where any work for attempting repairs became useless. One should note that the road is not just used by QL staff. Community members used the road frequently with their personal vehicles, as observed with the numbers of visitors at the Cape Christian construction camp.

Therefore, about three weeks ago in early August, it was decided through discussion with some experienced Inuit and Inuit elders on site that work on the re-routed path would be initiated. Management decided on relying on their traditional knowledge. Members of Clyde River (mayor and deputy mayor) mentioned that road path was already identified as being more suitable, as the hamlet had previously stockpiled gravel material along the new route. The work started sporadically and then more intensively since a mid August. The work is conducted with the objective of building something solid and sustainable that will benefit the community long after the project.

An amendment is therefore requested to:

- construct the new portion of the road as indicated in the attached drawing
- install culverts on crossings 2a, 3a and 7a

2. Creek crossings

By re-routing the road, some crossings originally planned will not anymore be required. Culverts number 1, 2, 3, 7 and 8 will not be required. Due to the re-routing of the roads, 3 new creek crossings will however be needed, those being the subject of this amendment.

The coordinates of the new creek crossings that will require culverts are:

Culvert number	Latitude	Longitude	Elevation (m)	Nb of culverts	Culvert Diameter (inches)
2a	70°29'25.56"	68°28'19.90"	72	1	48
3a	70°29'51.99"	68°25'52.48"	62	2	24
7a	70°30'25.61"	68°20'00.69"	6	1	24
7a	70°30'25.61"	68°20'00.69"	6	1	36

All culverts to be installed will be made of corrugated steel and will have a length of about 6 meters (19.5 feet). The slope of the culverts will be less than 4 %. These creeks are considered to support fish habitat. Maps of the locations of the 3 required culverts is attached. Those creeks have all smooth bank slopes. The banks are rather low, not very well defined, sloping down to those draining channels with approx. 6:1 grade. At summer time, the water level on those creeks is less than 0.3 meters. The work for crossings 2a and 7a has already been conducted. Crossing 3a is planned to be installed in early October 2009 when it is expected the streambed will be frozen to ground and therefore, any work should not impact the fish habitat. Otherwise, it is expected that repair work by adding gravel of the existing portion still being used and the re-routed portion (as shown on the map) will be conducted again in 2010 from late June to late September.

The project already generated some employment to the resident of the Municipality but more importantly, it results in more employment and training opportunities for the Cape Christian clean up project. Furthermore, it has been a long desire of the Municipality of Clyde River to have that road fixed and have a bridge installed for local resident to have a direct access to the

Davis Strait. The amendment to the existing Water License 8BW-CLY0810 is required to complete the project which will provide long-term benefits to the Nunavumiut of North Baffin.

Road between Clyde River and Cape Christian
Location of the re-routed path and additional culverts

