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## **Nunavut Research Institute Project Summary**

### **Peregrine Diamonds Ltd. Chidliak Property 2010 Baseline Environmental Studies**

Peregrine Diamonds Ltd. hired EBA Engineering Consultants Ltd. (EBA) to conduct environmental baseline studies at their Chidliak project site, approximately 75 km northeast of Iqaluit, Nunavut. The proposed project will involve surface water quality and preliminary stream flow surveys to be completed from May to October 2010. Specific dates of survey events still to be confirmed based on helicopter and camp availability. The purpose of the surface water quality and preliminary stream flow surveys is to describe existing hydrology conditions present on site.

Surface water quality and preliminary stream flow data will be collected during two short events each 4 days in length or less. A small team of one biologist and one local research assistant will conduct the field studies. A local research assistant from the two nearest communities, Iqaluit and Pangnirtung, are currently being sought. A Pangnirtung research assistant helped complete the 2009 field studies.

Transportation around the project site will be mainly by helicopter, and to a lesser extent walking. The existing two Chidliak camps will serve as the base for the field surveys. Nothing will be left on the land after the survey crews return to camp at the end of the day.

#### **Surface Water Quality**

The objective of the proposed surface water quality survey is to collect surface water grab samples to document baseline water quality conditions. Water quality samples will be collected by a biologist and local research assistant during two field events following established water quality sampling procedures, including use of field, travel, and duplicate samples. Water quality will be collected at predetermined sampling stations set up in 2009, as well as other locations to be determined based on proposed development activity. A qualified laboratory will supply all water quality bottles, preservatives, de-ionized water, and potable coolers and will analyze all water quality samples.

#### **Preliminary Stream Flow Measurements**

The proposed work plan for the preliminary hydrology component is designed to collect preliminary stream flow and water depth data in the study area, with particular emphasis near known development activity sites. Stream flow and water depth measurements will be collected following standard Hydrometric Survey standards. Stream flow and depth measurements will be taken at stations set up in 2009, as well as at other locations to be determined based on proposed development activity.

#### **Data and Reporting**

Data collected in 2010 will be analysed and summarized into an unpublished report and used as the basis for future baseline environmental data collection. Research results from 2010 will be submitted to the Nunavut Research Institute and will be available to all appropriate stakeholders of Iqaluit and Pangnirtung, upon request.