



NIRB File No. 10DN055
INAC File No.: N2010S0019

August 18, 2010

Dan McQuinn
Stantec Consulting Ltd.
40 Highfield Park Drive, Suite 102
Dartmouth, NS
B3A 0A3

Via email: dan.mcquinn@stantec.com

Re: Notice of Part 4 Screening for Stantec Consulting Ltd.'s "Geotechnical Investigation at the Nanisivik Naval Facility" project proposal

Dear Dan McQuinn:

On August 3, 2010 the Nunavut Impact Review Board (NIRB or Board) received a positive conformity determination (North Baffin Regional Land Use Plan) from the Nunavut Planning Commission for Stantec Consulting Ltd's (Stantec) "Geotechnical Investigation for the Nanisivik Naval Facility" project proposal. On August 4, 2010 Stantec's project proposal was referred to the NIRB for screening from Indian and Northern Affairs Canada (INAC). The NIRB has assigned this project proposal file number 10DN055.

Following the receipt of the original project proposal, the NIRB conducted a preliminary completeness check and determined that the project proposal did not contain sufficient information for the NIRB to permit proper screening. On August 9, 2010 the NIRB requested submission of the required information from Stantec, which was subsequently submitted to the Board on August 12, 2010.

This proposed geotechnical drilling program is located in the Qikiqtaaluk region, approximately thirty-three (33) kilometres (km) northeast of Arctic Bay. Stantec has been hired by Defence Construction Canada to complete a geotechnical drilling program at the existing mine port facility at Nanisivik, in support of the proposed Nanisivik Naval Facility Project. Information collected during this survey would enable designers and project managers to assess the stability of the wharf, design and construction of foundations for new infrastructure, and/or repairs/rehabilitation of the existing infrastructure components (e.g. existing tank farms, heliport, base structures and mechanical facilities). A test pitting program would also be completed at potential borrow areas near the port facility. The proposed project would take place for approximately fourteen (14) days during the period of August 23 and November 30, 2010.

Marine based, on-ice geotechnical drilling may also be required in the area of the existing wharf; this would be determined following evaluation of data collected from the land based drilling. Marine based drilling would take place in either late May or June of 2011 if required.

The proposed project activities include:

- Eight (8) Stantec personnel to be based out of Arctic Bay with daily transport by truck to Nanisivik;
- Test pitting at proposed borrow sites using backhoe or excavator;
- Geotechnical drilling using a skid-mounted drill with flight augers;
- Transportation of heavy equipment and drilling additives to project site by ship or marine barge; transportation of fuel from Arctic Bay to Nanisivik via truck haul;
- Storage of fuel and lubricants at Nanisivik;
- Collection of soil and rock samples for laboratory analysis;
- Installation of inclinometer tubing thermocouple thermistors; and,
- Potential marine-based geotechnical drilling in 2011.

All documents received and pertaining to this project proposal can be obtained from the NIRB's ftp site at <http://ftp.nirb.ca/SCREENINGS/ACTIVE%20SCREENINGS/10DN055-Stantec%20-%20Nanisivik%20Naval%20Facility/1-SCREENING/> including:

- *NIRB Part 1 Summary Application Form in English*
- *NIRB Part 1 Summary Application Form in Inuktitut*
- *NIRB Part 2 Project Specific Information Requirements in English*
- *Maps*
- *Non technical Project Proposal summary in English*
- *Non technical Project Proposal summary in Inuktitut*
- *NPC Conformity Determination*
- *Indian and Northern Affairs Canada Land Use Permit Application*
- *Nunavut Water Board Type B Water License Application*
- *Non-technical summary in English*
- *Non-technical summary in Inuktitut*

Pursuant to Part 4, Article 12 of the Nunavut Land Claims Agreement (NLCA), the NIRB shall proceed to screen this project proposal. The NIRB may request additional information at any time during the process. The NIRB will copy you on screening process related correspondence and upload related documents to the above ftp site for public access.

Be advised that the NIRB is copying parties and municipalities potentially affected by this project proposal. Interested parties are encouraged to comment directly to the NIRB by **August 30, 2010**.

The NIRB would like parties to provide comments regarding:

- Whether the project proposal is likely to arouse significant public concern; and if so, why;

- Whether the project proposal is likely to cause significant adverse eco-systemic and socio-economic effects; and if so, why;
- Whether the project is of a type where the potential adverse effects are highly predictable and mitigable with known technology, (please provide any recommended mitigation measures); and
- Any matter of importance to the Party related to the project proposal.

Please note that *proposed* project-specific terms and conditions, should the project proceed, have been attached for consideration and comment (**Appendix A**).

Please send your comments to the NIRB at info@nirb.ca or via fax at **(867) 983-2594**.

If you have any questions or concerns, feel free to contact me directly at 867-983-4619 or kgillard@nirb.ca.

Sincerely,



Kelli Gillard B.Sc., P.Ag.
Technical Advisor
Nunavut Impact Review Board

cc: Distribution List
Gary Cooper, DFO
Phyllis Beaulieu, NWB
Spencer Dewar, INAC

Attachments: Appendix A – *Proposed* Project Specific Terms and Conditions

Enclosures (2): Comment Forms (English and Inuktitut)

Appendix A
Proposed Project Specific Terms and Conditions

The following is a list of project-specific terms and conditions which, should the project proceed, may be recommended to be attached to any approval.

General

1. Stantec Consulting Ltd. - Dan McQuinn (the Proponent) shall maintain a copy of the Project Terms and Conditions at the site of operation at all times.
2. The Proponent shall forward copies of all permits obtained and required for this project to the Nunavut Impact Review Board (NIRB) prior to the commencement of the project.
3. The Proponent shall operate in accordance with all commitments stated in correspondence provided to NIRB (NIRB Part 1 and Part 2 forms, August 12, 2010) and the following documents:
 - a. Fisheries and Oceans Canada – Letter Describing Project and Mitigation - July 13, 2010
 - b. Nunavut Water Board – Type B Water Licence Application – July 16, 2010
 - c. Nunavut Planning Commission – Conformity Determination – July 20, 2010
 - d. Indian and Northern Affairs Canada – Land Use Permit Application – August 4, 2010
4. The Proponent shall operate the site in accordance with all applicable Acts, Regulations and Guidelines.

Water

5. The Proponent shall not extract water from any fish-bearing waterbody unless the water intake hose is equipped with a screen of appropriate mesh size to ensure that there is no entrapment of fish. Small lakes or streams shall not be used for water withdrawal.
6. The Proponent shall not use water, including constructing or disturbing any stream, lakebed or the banks of any definable water course unless approved by the Nunavut Water Board.

Waste

7. The Proponent shall keep all garbage and debris in bags placed in a covered metal container or equivalent until disposed of. All wastes shall be kept inaccessible to wildlife at all times.
8. The Proponent shall ensure all waste oil and hazardous materials will be transported off site and disposed of at an approved facility. A waste manifest must accompany the shipment of all waste oil and the Proponent must register with the GN-DoE. The Proponent should contact the Manager of Pollution Control and Air Quality at (867) 975-7748 to obtain a manifest if hazardous waste is generated during project activities.

Fuel and Chemical Storage

9. The Proponent shall store all chemicals in such a manner that they are inaccessible to wildlife.

10. The Proponent shall ensure that the transfer of equipment and lubricant from the barge to the Nanisivik site is supervised and undertaken by trained staff. The protocol for equipment and lubricant delivery and unloading must be included as part of the Spill Contingency and Emergency Response Plan.
11. The Proponent shall locate all fuel and other hazardous materials a minimum of thirty-one (31) metres away from the high water mark of any water body and in such a manner as to prevent their release into the environment.
12. The Proponent shall use appropriate spill response equipment and clean-up materials (e.g., shovels, pumps, barrels, drip pans, and absorbents) must be readily available during any transfer of fuel or hazardous substances, as well as at the drill site.
13. The Proponent shall inspect and document the condition of the fuel/lubricant/hazardous materials sites on a weekly basis. The Proponent shall examine all fuel and chemical storage containers immediately upon delivery for leaks. All containers must be marked with the Proponent's name. All leaks should be repaired or dealt appropriately with immediately.
14. The Proponent shall remove and treat hydrocarbon contaminated soils on site or transport them to an approved disposal site.
15. The Proponent shall report all spills of fuel, or other deleterious materials immediately to the twenty-four (24) hour Spill Line at (867) 920-8130.

Wildlife

16. The Proponent shall ensure that there is no damage to wildlife habitat in conducting this operation.
17. The Proponent shall not harass wildlife. This includes persistently worrying or chasing animals, or disturbing large groups of animals. The Proponent shall not hunt or fish, unless proper Nunavut authorizations have been acquired.
18. The Proponent shall not disturb or destroy the nests or eggs of any birds. If active nests of any birds are discovered (i.e. with eggs or young), the Proponent shall avoid these areas until nesting is complete and the young have left the nest.
19. The Proponent shall cease activities that may interfere with migration or calving of caribou or muskox, until the caribou or muskox have passed or left the area.
20. The Proponent shall ensure all project staff are trained in appropriate bear/carnivore detection and deterrent techniques.

Stripping and Trenching

21. The Proponent shall not conduct any trenching activities within thirty-one (31) metres of the high water mark of any water body.
22. The Proponent shall implement sediment and erosion control measures by employing erosion prevention measures (e.g., berms or silt fence) in the trenching area during the project operation.

23. The Proponent shall stockpile all overburden/topsoil generated during trenching using proper erosion prevention measures. Upon completion of operation, the Proponent shall backfill, reclaim or re-contour and re-vegetate disturbed areas.

Drilling on Land

24. The Proponent shall ensure that all drill areas are constructed in a manner which minimizes the environmental footprint of the project area. Drill areas should be kept orderly with garbage removed daily to an approved disposal site.
25. The Proponent shall not locate any sump within thirty-one (31) metres of the normal high water mark of any water body. Sumps and areas designated for waste disposal shall be sufficiently bermed or otherwise contained to ensure that substances do not enter a waterway unless otherwise authorized or spread to surrounding lands.
26. The Proponent shall ensure that all sumps shall only be used for inert drilling fluids, and not any other materials or substances.
27. If an artesian flow is encountered, the Proponent shall ensure the drill hole is immediately plugged and permanently sealed.
28. The Proponent shall ensure all drill holes are backfilled or capped prior to the end of each field season. All sumps must be backfilled and restored to original or stable profile prior to the end of each field season.

Drilling on Ice

29. If drilling is conducted on lake ice, the Proponent shall ensure that any return water is non-toxic, and will not result in an increase in total suspended solids in the immediate receiving waters above the Canadian Council of Ministers for the Environment (CCME) Guidelines for the Protection of Freshwater Aquatic Life (i.e. 10 mg/L for lakes with background levels under 100 mg/L, or 10% for those above 100 mg/L).
30. The Proponent shall ensure that drill muds and additives are not used in connection with holes drilled through lake ice unless they are re-circulated or contained such that they do not enter the water, or are demonstrated to be non-toxic.
31. The Proponent shall ensure that all drill cuttings are removed from ice surfaces daily.

Physical Environment

32. The Proponent shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging. The Proponent shall suspend overland travel of equipment or vehicles if rutting occurs.
33. The Proponent shall ensure that the land use area is kept clean and tidy at all times.

Restoration

34. The Proponent shall remove all garbage, fuel and equipment upon abandonment.
35. The Proponent shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.

Other

36. The Proponent should, to the extent possible, hire local people and consult with local residents regarding their activities in the region.
37. Any activity related to this application, and outside the original scope of the project as described in the application, will be considered a new project and should be submitted to the NIRB for screening.