



Stantec

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March 30, 2012
File: 144901252

Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
X0B 1J0

Attention: Phyllis Beaulieu, Manager of Licensing

Dear Mrs. Beaulieu:

Reference: Hamlet of Cambridge Bay Water Licence 3BM-CAM0914

On behalf of the Hamlet of Cambridge Bay, we are pleased to submit the following Water Licence Amendment Request. Stantec is providing engineering services for the new intake pumphouse and truckfill building in the Hamlet of Cambridge Bay. This new facility replaces the aging existing intake structure and is located adjacent to it. Currently water is withdrawn from Water Lake, chlorinated, and pumped through an underground pipeline to the Hamlet for distribution using the in-town truckfill facility.

The proposed upgrades and changes are summarized as follows:

- Project area is located at UTM Coordinates: 13W 497410.59m E 7669832.98 m N
- New prefabricated pump house and emergency truckfill building to replace existing and underequipped pumphouse and emergency truckfill building;
- New dual intake lines located approximately 140m offshore at a depth of 5m below the surface. Associated water intake screens are designed with a maximum screen size of 2.5mm;
- Source water remains to be Water Lake; new intake is located approximately 200m northwest of the current location;
- Total water withdrawal is estimated at 203,117 Litres/day (74,138 m³ annually);
- Withdrawal flow rate is redundant 1200 LPM pumps (operating alternately) with chlorination added into truckfill arm;
- Water quality testing indicated taste & odor issues; therefore the addition of aeration is being considered as an option during winter months; and
- No water is discharged back to Water Lake.

The proposed schedule for the project is as follows, actual schedule will be proposed by awarded contractor:

- | | |
|------------------------------------|------------------------|
| • Construction Tender Award | End of April 2012 |
| • Issued for Construction Drawings | End of April 2012 |
| • Start Construction | Beginning of July 2012 |
| • Commissioning of New Facility | Fall 2012 |

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The proposed amendment has been granted exemption from NPC conformity; written confirmation has been appended. We have been instructed by NIRB, that upon submission of the amendment application package to the NWB, a screening exemption letter will be sent to the NWB.

We hope that the attached documents meet your requirements at this time and request that the water licence be amended accordingly. If you require any further information or have questions, please do not hesitate to contact me.

Sincerely,

STANTEC ARCHITECTURE LTD.

A handwritten signature in dark ink, appearing to read 'A. Foster', with a long horizontal flourish extending to the right.

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