



Water Resources Division  
Nunavut Regional Office  
Iqaluit, NU  
X0A 0H0

NWB File: 3BC-SHE0919  
CIDMS #: 398548

Apr 23, 2010

**Re: 3BC-SHE0919 – QA/QC Plan for Sampling at both the Final Discharge Point of the Bermed Fuel Storage Facilities and Final Discharge Point of Sewage Treatment Facility – Shepherd Bay – CAM-3 – Department National Defense.**

Please be advised that Indian and Northern Affairs Canada (INAC) has completed a review of the QA/QC plan for both the bermed fuel storage and sewage treatment facilities final discharge points for water license 3BC-SHE0919 (Shepherd Bay) submitted by Nasittuq Corp. on behalf of Department of National Defence. The NWB circulated the QA/QC plans for information purposes only on February 10, 2010. All associated documents related to this renewal application posted on the NWB ftp site under 3BC-SHE0919 were included in my review (See attached Technical Review Memo).

Should you have any questions or comments, please do not hesitate to contact me at (867) 979-4282 or by email at [Ian.Parsons@inac.gc.ca](mailto:Ian.Parsons@inac.gc.ca).

Sincerely,

*Original signed by*

Ian Parsons  
Water Resources Technician

Cc. Lou-Ann Cornacchio, Manager of Water Resources – Indian and Northern Affairs Canada, Nunavut Regional Office



## **Technical Review Memorandum**

To: Lou-Ann Cornacchio, Manager of Water Resources – Indian and Northern Affairs Canada, Nunavut Regional Office  
Phyllis Beaulieu – Manager of Licensing, Nunavut Water Board

From: Ian Parsons – Water Resources Technician, Indian & Northern Affairs Canada.

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**Re: 3BC-SHE0919 – QA/QC Plan for Sampling at both the Final Discharge Point of the Bermed Fuel Storage Facilities and Final Discharge Point of Sewage Treatment Facility – Shepherd Bay – CAM-3 – Department National Defense.**

### **Background**

The Shepherd Bay Cam-3 site is located on the Bootia Peninsula 82 km south of Taloyoak on the east side of Shepherd Bay. It is an unmanned Long Range Radar Station for the North Warning System. The site is visited by staff, quarterly, for preventative and maintenance requirements but will return to May-September the site may return to manned status. Existing facilities at Shepherd Bay Cam-3 consists of site buildings, a freshwater intake, 4 10,000L water storage tanks, bermed fuel storage area and one incinerating toilet. As well since 1987 the facility sewage disposal system which consists of; a septic tank with outfall pipe which discharges to the land.

### **Recommendations/Comments**

#### **QA/QC Plan for sampling from Final Discharge Point of Bermed Fuel Storage Facility**

INAC has no issues with the QA/QC plan for sampling from Final Discharge Point of Bermed Fuel Storage Facility submitted as a requirement of the license. However INAC recommends the submission of GPS coordinates and a map of the sampling sites. As well it is noted that the submission was pass the 90 day time requirement for the QA/QC plan as per water license 3BC-SHE0919.



## **QA/QC Plan for Sampling from Final Discharge Point of Sewage Treatment Facility**

INAC has no issues with the QA/QC plan for sampling from Final Discharge Point of Sewage Treatment Facility submitted as a requirement of the license. However like the first QA/QC plan INAC recommends that GPS coordinates and map of the sampling locations accompany the plan. Again, like the previous plan, it is also noted that this submission was also pass the 90 day time requirement for the QA/QC plan as per water license 3BC-SHE0919.

As well INAC would recommend that its previous comments, submitted on March 12 in regards to the sewage disposal update, be also taken into consideration at this time.

The proponent at the time was requested by the board to submit a Sewage Disposal Update as a result of information indicating that sewage was being pumped directly into the environment. Until this problem is rectified then the QA/QC plan submitted has no relevance.

It has been noted that the proponent states that non-hazardous wastes are disposed of at the Hamlet of Cambridge Bay Landfill. The proponent is reminded that a written agreement between themselves and the Hamlet of Cambridge Bay is required before any wastes are backhauled to the Hamlet's specified waste disposal site.

Nasittuq Corp. on behalf of the Department of National Defence are required to provide the Nunavut Water Board all outstanding information referred to above in order to comply with the current water license 3BC-SHE0919.

Cc. Lou-Ann Cornacchio, Manager of Water Resources – Indian and Northern Affairs Canada, Nunavut Regional Office  
Peter Kusugak, District Manager – Indian and Northern Affairs Canada, Nunavut Regional Office