



Défense nationale
National Defence

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13 Sept 2013

Phyllis Beaulieu
Manager of Licensing,
Nunavut Water Board
P.O. Box 119
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**NOTIFICATION OF PROPOSED MODIFICATIONS TO THE CANADIAN FORCES
STATION (CFS) EUREKA SEWAGE WASTE FACILITY**

Reference A. CFS Eureka's Nunavut Water Board (NWB) Water Licence Number:
3BC-ERK1015.

B. Aboriginal Affairs and Northern Development Canada (AANDC) Water Use
Inspection Report July 11, 2013 for CFS Eureka 3BC-ERK1015.

Dear Ms. Beaulieu,

The Department of National Defence (DND) - 8 Wing Trenton Environmental
Management Office is submitting this notification of proposed modifications and
construction for CFS Eureka's Sewage Waste Facility as per Reference A. The
modifications are detailed in Table 1.

Table 1 - List of Modifications to CFS Alert Water Supply Facility

Modification Project	Description	Project Start Date (estimate):	Comments
Access Road to the rear of the Sewage Lagoon.	An access road was constructed to allow heavy equipment access to repair the adjacent tundra and rear lagoon walls.	Completed and identified to the Inspector during the AANDC Inspection July 2013.	To be reported to NWB.
Replace the transfer pipe between the two lagoon cells (Primary & Secondary) at the mid-wall.	Each year, frost heaving shifts the transfer pipe. This pipe will be replaced with an area of compacted crushed rock to create a flow path similar to a weir plate in the centre of the lagoon mid-wall.	Fall/Winter 2013	Crushed rock will provide erosion protection and strengthen the lagoon wall.

Extension of the Outfall End-Pipe, with gravel armouring.	Replacement of the end-pipe with a longer pipe at the end of the second lagoon cell. Crushed rock armouring will be placed beneath the pipe.	Fall/Winter 2013	Crushed rock will provide erosion protection for the lagoon wall. This project was instructed by the AANDC Inspector, as per Reference B.
Removal of the old digester and installation of a grinding pump to the sewage line.	Digester will be replaced with a grind pump that will continually operate to eviscerate any solid wastes in the sewage.	Fall/Winter 2013	The Digester is currently being used as a solid waste separating and holding tank; the grind pump will render this tank obsolete.

Project Timeline

As projects in the High Arctic are impacted by many factors (logistics, transportation, supply, weather, etc.), the project start dates are best estimates. Given this factor, I have included the estimated project start dates (Table 1). Unforeseen circumstances may cause delays ranging from weeks to entire seasons. Should there be any major delays; the alternate start date would be in Spring/Summer 2014.

Relations to Water

The proposed modification and construction work site is located at the Sewage Waste Facility (Lagoon), this location is well away (greater than 31 metres) from the ordinary high water mark or any water bodies. There will be no work in any active water ways or bodies.

Should you have any further questions or comments, please do not hesitate to contact the undersigned.

Yours truly,



Andrew Tam, MSc, PhD (Candidate)
Assistant Environment Officer
8 Wing Trenton Environmental Management Office

Distribution List

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