



8 Wing Environmental Management  
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April 30, 2019

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

**Re: DND RESPONSE TO ITEM NO.7 OF THE TM COMMITMENT. 8AC-ALT----  
– PROVIDE PRELIMINARY SEWAGE SLUDGE MANAGAEMENT PLAN**

Dear Licensing Department,

The Department of National Defence (DND) - 8 Wing Trenton Environmental Management Office is providing this response letter to the commitment made to provide preliminary Sewage Sludge Management Plan. 8AC-ALT---- – Department of National Defence – Canadian Forces Station Alert TM Commitment number 7.

DND - 8 Wing Trenton Environmental Management Office is committed to supporting and collaborating with the NWB and CIRNAC in this collective effort to help support the water licence renewal process for CFS Alert.

DND understands its responsibility and commitment for planning and providing the management of sewage sludge and water residuals. As such, DND has currently engaged a third party consultant to develop a sewage sludge Management Plan for the Station.

**Preliminary Sewage Sludge Management Plan Objectives**

The purpose of the sewage sludge study is to plan for the future management of waste water sludge from the stations wastewater treatment plant at CFS Alert in a manner that is sustainable, reliable, environmentally sound, cost-effective and flexible.

The intent of the sewage sludge management plan will address the following objectives:

- To document the status of the existing sewage sludge program at the station, in terms of process capacity, availability and reliability;
- To prepare a Problem/Opportunities statement, which identifies the limitations in the existing system; this includes treatment plant

opportunities and constraints related to future management of sewage sludge

- To complete a comprehensive review of a broad range of sewage sludge management options available that operate currently in the north and globally in arctic climates;
- To develop a decision-making process, that reflects the priorities and goals of the Station, CIRNAC and NWB, to be used in selecting preferred options for each plant
- Preparation of the Sewage Sludge Management Plan

### **Timelines**

Currently DND is in the definition phases of planning but expects that contracting / data collection will take place from year 2020-2023. Once completed development of the project plans will be coordinated between years 2023-2024 with planned implementation in 2025.

### **Notes**

DND would like to request significant time from the NWB to complete this task due to the procurement constraints, expert service requirements, high arctic logistics, transportation constraints, and for access to the sites at appropriate seasons for data collection. The construction (if required) of a new sewage plant or the expansion of the current terrace could take additional time above and beyond 5 years. This is due to the short construction season window and equipment/material delivery logistics associated with CFS Alert. Some heavy equipment required to complete the civil works may have to be sea lifted to Thule Greenland before transport to Alert. This requires two years of time before equipment is delivered to CFS Alert

DND - 8 Wing Trenton Environmental Management Office is committed to working with the NWB, CIRNAC and all northern regulatory stakeholders; we are supportive of any teleconferences and technical meetings to collaboratively help establish an appropriate Water Licence for and in support of the operations at CFS Alert.

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

Yours truly,



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