



Northwest  
Territories Municipal and Community Affairs

Ms. Sabrina Sturman  
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Sahtu Land & Water Board  
BOX 1  
FORT GOOD HOPE NT X0E 0H0

**Water Licence S12L3-006 - Deline Landfill and Sewage  
Lagoon Closure and Reclamation Plan - Response to Review Comments**

The Department of Municipal and Community Affairs (MACA) has been working with the Charter Community of Deline and the Department of Environment and Natural Resources (ENR) to close and remediate the former landfill and sewage lagoon in Deline. In that process we retained Tetra Tech EBA Inc. to perform an Environmental Site Assessment and develop a Closure and Reclamation Plan (C&R Plan). The existing contract with EBA is complete. Our preference would be to issue an addendum to the plan and address concerns from the Sahtu Land and Water Board (SLWB) versus modifying the entire document. Drawings included in the plan can be considered to approximately 30% complete. Once the C&R Plan is accepted in principal, MACA proposes to retain a consultant to prepare tender documents, develop a detailed schedule, amend the C&R Plan with the updated information, assist in retaining a contractor and provide engineering services for remediation and closure activities.

Our specific responses to comments are as follows:

1. (a) Agreed, we will include these changes in the addendum and all future documents.
- (b) The implementation schedule is to be developed following approval of the plan by the SLWB and the securing of funding. A draft schedule in under development and will be submitted with the addendum.
- (c) Treatment of soils in the hazardous waste storage cell should be considered more of an in-situ treatment than a constructed bio-pile. In-situ soil treatment has been demonstrated to be a very successful and economic way to reduce hydrocarbon contamination in the NWT (Colomac Mine, former NTPC Fuel Facility in Tuktoyaktuk). The spread of additional contamination is likely to be negligible and the final site is to be cleaned up. Groundwater monitoring will be occurring on the site and soil sampling will be completed. Additional details on protocols to reuse contamination spread will be included in the tender documents.

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(d) Details will be provided in the tender documents and will follow similar protocols to the Manual for the preparation and Disposal of End-of-Life Vehicles in Nunavut.

([http://env.gov.nu.ca/sites/default/files/final - elv program manual - jan 10 2011 0.pdf](http://env.gov.nu.ca/sites/default/files/final_-_elv_program_manual_-_jan_10_2011_0.pdf))

(e) We believe providing site-specific research on sewage sludge decomposition is an unnecessarily onerous request. The sludge poses little environmental risk and will naturally stabilize over time. Detailed research into the decomposition would be a purely academic endeavor and should be considered outside of the scope of a C&R Plan. Risks to human health will be managed by appropriate protocols outlined in the tender documents.

2. (a) Environment Canada had no comments.
3. (a) The only effluent expected is from lagoon dewatering and that will follow the requirements currently outlined in Deline's water licence. Environment Canada had no specific comments (See 2(a)).

Sincerely,



Olivia Lee  
Manager of Infrastructure & Project Management