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J. ጽሑፍ

- Show slides, aerial view, of new WWT plant, existing lagoon and outfall
- Show slide of Earth Tech's recommended treatment area for the sludge.
- Show slide of all waste dumps throughout Iqaluit and Apex

B. Existing Operation when Phase 2 is complete

- Describe operation of the facility showing the route for the two sludge trailers

C. Volumes

- Show slide of anticipated sludge production
- Site document of waste water volume entering the lagoon (1998)

D. Anticipated Problems with Plant Operation Phase 2

- Show slide of sludge transport trailer
- Show list of anticipated sludge transport problems
- Show slide of mechanical dewatering system
- Show anticipated moisture levels in mechanically dewatered sludge
- Show estimated energy and maintenance requirements for mechanical dewatering systems: Daily, Yearly, After 10 years
- Show volumes of sludge to be landfilled: Daily, Yearly, After 10 years
- Show required moisture levels for leachate control in landfills
- Show anticipated moisture levels in mechanically dewatered sludge

E. Suggested Changes (Solutions) for Phase 2

- Describe operation of Freeze /thaw beds with slides

- Describe volume reduction and moisture levels for dewatered sludge from Freeze/thaw beds
- Compare volumes between freeze/thaw and mechanically dewatered sludge
- Compare benefits (a) Transportation (b)Energy (c) O & M (d) Land use (e)Chemicals (f) Public support
- Show slide of plant design before and after beneficial changes.

F. Summary of Anticipated Benefits

- Elimination of sludge trailers and associated problems
- Reduction/elimination of infrastructure requirements at Area A
- Significant reduction of O & M costs for main plant
- Potential to dewater lagoon sludge as first step in decommissioning
- Sludge disposal transport required yearly rather than daily

G. Recommendations

- Study and compare existing design to this new approach through a cost benefit analysis considering all factors
- Determine if heat can be transferred from treated effluent to under freeze/thaw beds as a means to assist the seasonal thawing process through a pilot.