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Summary of **Nordic Enterprises'**

**Report of Tests and Observations made at the
Canadian Forces Base Edenvale on the Facultative
Sewage Lagoon Using BIOLOGIC**

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Introduction

The Department of National Defense operates a communications base near Edenvale, Ontario. This facility accommodates between 3 and 100 persons at a time, in two shifts, 24 hours per day. A facultative lagoon is in operation at the base for the treatment of the facility's wastewater.

When BIOLOGIC treatment was initiated, plans were underway to have the lagoon dredged due to the high level of sludge. Prior to this, the lagoon had not been pumped or dredged for a number of years.

Objective

The objective of this study was to measure the effectiveness of BIOLOGIC in the reduction of solids in the lagoon

Discussion/Conclusion

The method used in this experiment allowed the effectiveness of BIOLOGIC treatment of a facultative sewage lagoon to be measured and assessed by two different approaches.

We can see from Table 1 that the concentrations of BOD, SS, and Nitrogen in the sludge dropped drastically after treatment with BIOLOGIC.

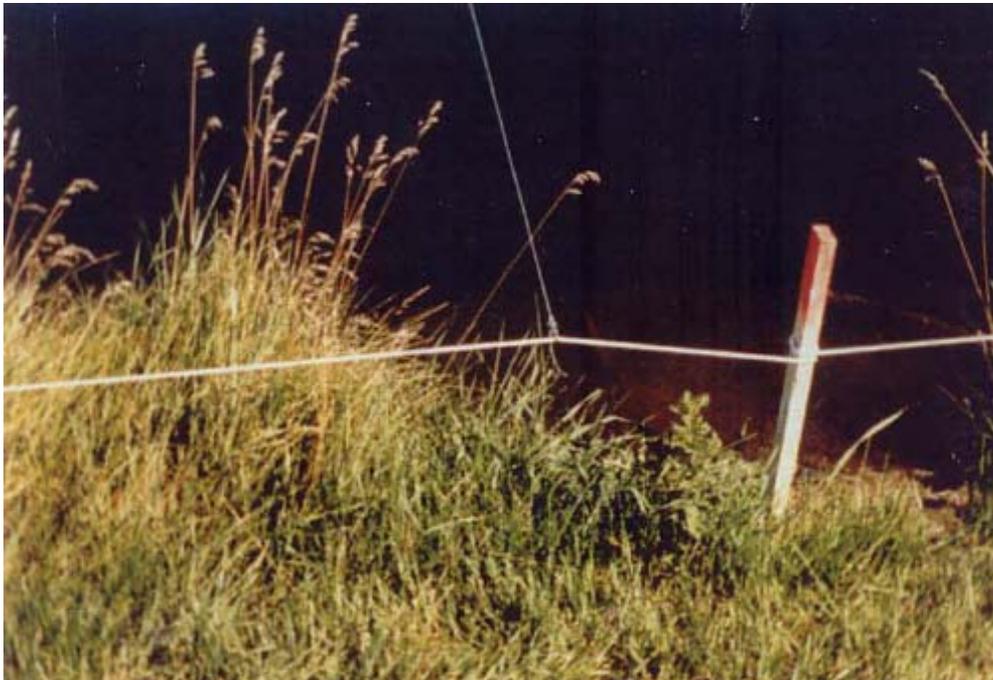
By identifying the sludge level in the lagoon before and after treatment with BIOLOGIC an absolute reduction of the various parameters can be determined. BIOLOGIC had an extraordinary effect on the sludge within the lagoon. Over the three-month study period, 11, 891 kg of Suspended Solids and 2, 570 kg of BOD were reduced. These astonishing results coincide with an overall sludge volume reduction of 82.9%.

An analysis of the effluent from the treated lagoon also yielded unprecedented effluent quality.

In conclusion, the beneficial effect of BIOLOGIC on the overall treatment efficiency of a facultative sewage lagoon has far exceeded any preconceived expectations.



1. Ropes for grid pattern, looking S.E.



2. Shows clarity of water from pole outward. Visibility is only 6" deep. Bottom is a light sand colour. Also shows grid for sludge measurements.



2. Bottom of the lagoon after BIOLOGIC. Compare clarity to Photo #2.



4. Bottom of the lagoon in S.E. corner as seen from boat. Can see 5 ½ feet deep



5. Looking directly down from boat (visibility 5 ½ feet). Note inlet pipes.



6. Algae and under growth, with no sludge remaining on algae (N. side).