

AN ORDER OF THE CLEAN ENVIRONMENT COMMISSION
UNDER THE CLEAN ENVIRONMENT ACT

RE: THE CLEAN ENVIRONMENT COMMISSION and THE MANITOBA WATER SERVICES BOARD, Applicant;

WHEREAS pursuant to the provisions of The Clean Environment Act, The Manitoba Water Services Board filed a proposal with the department of Mines, Natural Resources and Environment in connection with the operation of a sewage lagoon system to be located on Section 19-5-16 WPM in the Rural Municipality of Strathcona, Manitoba, to serve the unincorporated village of Ninette, with discharge of effluent to the waters of Pelican Lake;

AND WHEREAS in the absence of limits being prescribed by a Regulation under the said Act, the proposal was referred to The Clean Environment Commission for the prescribing of limits;

AND WHEREAS representations were received from persons who are or who may be affected by an Order of the Commission prescribing limits in connection with the said operation;

AND WHEREAS the Commission held a hearing in Ninette on the 5th day of March, 1979;

AND WHEREAS the Commission received evidence that the soil at the site chosen for the lagoon construction is likely to prove permeable, to an extent which may result in an unacceptably high rate of seepage of the lagoon contents into the Lake and/or into groundwater and that, if adequate preventive measures are not taken during the construction of the lagoon, remedial action at a later date would, in the opinion of qualified witnesses, be prohibitively expensive;

AND WHEREAS the Commission considered the proposal on the 19th day of March, 1979;

Assigned to Water Pollution Control May 11, 1979.

IT IS HEREBY ORDERED THAT

1. The Applicant shall ensure that the said sewage lagoon system is constructed, maintained and operated in such a manner as to prevent the contamination of groundwater and to prevent seepage of lagoon contents into Pelican Lake and, in order to ensure that the said sewage lagoon system is so constructed, the Applicant shall:
 - (a) prior to dyke construction:
 - (i) remove all organic topsoil from the area where the dyke will be built; or,
 - (ii) remove all organic mat material from the area where the dyke will be built provided all lagoon dykes are to be lined with clay or other suitable material, as required by Clause 1(b), to a thickness of not less than 1 meter measured perpendicular to the face of the dyke;
 - (b) construct the lagoon with clay or other suitable material such that the hydraulic conductivity does not exceed 10^{-7} centimeters per second over the interior surface of the entire lagoon;
 - (c) notify the Environmental Management Division of the Department of Mines, Natural Resources and Environment two weeks prior to the completion of lagoon construction;
 - (d) (i) arrange for the taking of not less than two undisturbed soil samples from each plane surface of the completed lagoon cells as prescribed by the staff of the said Division and ensure the said samples are tested for hydraulic conductivity by a laboratory approved by the said Division; or,

Continued

- (d) (ii) where undisturbed soil samples cannot be taken, hydraulic conductivity testing shall be carried out on each plane surface of the completed lagoon, as prescribed by the staff of the said Division, using *in situ* field testing methods approved by the said Division.

 - (e) submit the results of the tests carried out pursuant to Clause 1(d) of this Order to the said Division 14 days before the sewage lagoon system is placed into operation.
2. The Applicant shall ensure that the said sewage lagoon system is constructed and operated in such a manner that:
- (a) the release of offensive odours is minimized;

 - (b) the organic loading on the primary cell of the said system, in terms of five-day biochemical oxygen demand, is not in excess of 56 kilograms per hectare;

 - (c) no discharge of effluent takes place between the 15th day of June of each year and the 1st day of October of the same year;

 - (d) no discharge of effluent takes place between the 1st day of November of each year and the 15th day of May of the following year;

 - (e) the organic content of the effluent in terms of five-day biochemical oxygen demand, is not in excess of 30 milligrams per litre; and

. . . . 4

Continued

The Manitoba Water
Services Board

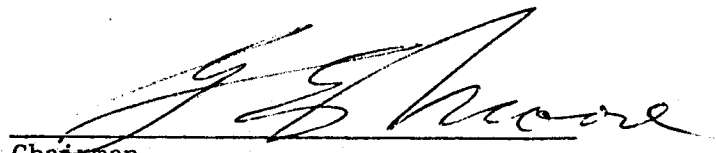
Continued

2. (f) the fecal coliform content of the effluent, in terms of the MPN Index, is not in excess of 200 per 100 millilitres of sample.

Order No. 832

Dated at the City of Winnipeg

this 10th day of May, 1979.



Chairman,
The Clean Environment Commission.

File - 1853