

Environment Act Licence Loi sur l'environnement Licence

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Licence No./Licence n° 857 R

Issue Date/Date de délivrance October 12, 1979

Revised: August 27, 1998

**IN ACCORDANCE WITH THE MANITOBA ENVIRONMENT ACT (C.C.S.M. c. E125)
THIS LICENCE IS ISSUED PURSUANT TO SECTION 11(1) TO:**

THE RURAL MUNICIPALITY OF MACDONALD; "the Licencee"

for the operation of the Development being a wastewater treatment lagoon, servicing the unincorporated village of Sanford, located in the Northwest quarter of Section 17, Township 8, Range 1 EPM in the Rural Municipality of Macdonald and with discharge of treated effluent to the waters of the LaSalle River, via the Wheatland Drain, in accordance with the Proposal filed on March 26, 1979, and the Notice of Alteration dated December 9, 1993, and subject to the following specifications, limits, terms and conditions:

DEFINITIONS

In this Licence,

"**Director**" means an employee so designated pursuant to The Environment Act;

"**effluent**" means treated wastewater flowing or pumped out of the wastewater treatment lagoon or sewage treatment plant;

"**fecal coliform**" means aerobic and facultative, Gram-negative, nonspore-forming, rod-shaped bacteria capable of growth at 44.5° C, and associated with fecal matter of warm-blooded animals;

"**five-day biochemical oxygen demand**" means that part of the oxygen demand usually associated with biochemical oxidation of organic matter within five days at a temperature of 20° C;

"**hydraulic conductivity**" means the quantity of water that will flow through a unit cross-sectional area of a porous material per unit of time under a hydraulic gradient of 1.0;

"**MPN Index**" means the most probable number of coliform organisms in a given volume of wastewater which, in accordance with statistical theory, would yield the observed test result with the greatest frequency;

"**primary cell**" means the first in a series of cells of the wastewater treatment lagoon system and which is the cell that receives the untreated wastewater; and

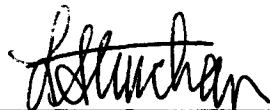
"total coliform" means a group of aerobic and facultative anaerobic, Gram-negative, nonspore-forming, rod-shaped bacteria, that ferment lactose with gas and acid formation within 48 hours at 35° C, and inhabit predominantly the intestines of man or animals, but are occasionally found elsewhere and include the sub-group of fecal coliform bacteria.

LIMITS, TERMS, CONDITIONS AND SPECIFICATIONS

1. The Licencee shall ensure that the hydraulic conductivity of the interior of the said wastewater treatment lagoon does not exceed 10^{-7} centimetres per second over the entire lagoon.
2. The Licencee shall operate and maintain the wastewater treatment lagoon in such a manner that the organic loading on the primary cell of the said sewage treatment lagoon system does not exceed 56 kilograms per hectare per day, as indicated by the five-day biochemical oxygen demand.
3. The Licencee shall not discharge effluent from the wastewater treatment lagoon:
 - a) where the organic content of the effluent, as indicated by the five day biochemical oxygen demand, is in excess of 30 milligrams per litre;
 - b) where the fecal coliform content of the effluent, as indicated by the MPN index, is in excess of 200 per 100 millilitres of sample;
 - c) between the 1st day of November of any year and the 15th day of June of the following year; or
 - d) during periods of water withdrawal from the LaSalle River for filling the reservoirs at the Sanford Water Treatment Facility.
4. The Licencee shall actively participate in any future nutrient reduction program for the LaSalle River watershed, providing that the nutrient reduction program addresses both point and non-point sources of nutrients.

REVIEW AND REVOCATION

- A. This Licence replaces Licence No. 857 which is hereby rescinded.
- B. If, in the opinion of the Director, the Licencee has exceeded or is exceeding or has or is failing to meet the specifications, limits, terms, or conditions set out in this Licence, the Director may, temporarily or permanently, revoke this Licence.
- C. If, in the opinion of the Director, new evidence warrants a change in the specifications, limits, terms or conditions of this Licence, the Director may require the filing of a new proposal pursuant to Section 11 of The Environment Act.



Larry Strachan, P. Eng.
Director
Environment Act