

# Environment Act Licence

Manitoba  
Environment



Licence No. 1537  
Issue Date FEBRUARY 19, 1992

In accordance with the Manitoba Environment Act (C.C.S.M. c. E125)

THIS LICENCE IS ISSUED TO:

## **RURAL MUNICIPALITY OF ST. FRANCOIS XAVIER: APPLICANT** **ST.FRANCOIS XAVIER WASTEWATER TREATMENT LAGOON**

The following limits, terms and conditions shall be complied with in connection with the construction and operation of a wastewater collection system and the construction and operation of a wastewater treatment lagoon located on River Lot 183 in the Parish of St. Francois Xavier in the Rural Municipality of St. Francois Xavier and with discharge of treated effluent via a 3rd order drain, known as Second Creek and thence to the Assiniboine River:

1. The Applicant shall direct all sewage generated within the Unincorporated Village of St. Francois Xavier toward the wastewater treatment lagoon or other approved sewage treatment facilities.
2. The Applicant 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) where the total coliform content of the effluent, as indicated by the MPN index, is in excess of 1500 per 100 millilitres of sample;

- (d) where free chlorine in the effluent can be detected by a method approved by the Director;
  - (e) between the first day of November of any year and the 15th day of May of the following year, unless prior approval, by the Director, is given;
  - (f) when flooding from any cause is occurring along the effluent drainage route; or
  - (g) when such a discharge causes or contributes to flooding in or along the effluent drainage route.
3. The Applicant shall operate and maintain the wastewater treatment lagoon in such a manner that
- (a) the release of offensive odours is minimized;
  - (b) the organic loading on the primary cell of the lagoon system, as indicated by the five day biochemical oxygen demand, is not in excess of 56 kilograms per hectare per day; and
  - (c) the depth of sewage in the primary cells does not exceed 1.5 metres.
4. The Applicant shall, in case of physical or mechanical breakdown of the wastewater collection and/or treatment system:
- (a) notify the Director immediately;
  - (b) identify the repairs required to the wastewater collection and/or treatment system;
  - (c) complete the repairs in accordance with written instructions of the Director.

5. The Applicant shall, prior to the construction of the dikes for the wastewater treatment lagoon:
  - (a) remove all organic topsoil from the area where the dikes will be constructed; or,
  - (b) remove all organic material for a depth of 0.3 metres and a width of 3.0 metres from the area where the dike will be built, provided all the lagoon dikes are lined with clay or other suitable material as required by Clause 6, to a minimum thickness of one metre measured perpendicular to the face of the side wall.
6. The Applicant shall construct the wastewater treatment lagoon system with clay or other suitable material such that all interior surfaces of the lagoon structure are underlain with a minimum of 1 metre of soil having a hydraulic conductivity of  $1 \times 10^{-7}$  centimetres per second or less.
7. The Applicant shall arrange with the designated Environment Officer a mutually acceptable time and date for any required soil sampling between the 15th day of May and the 15th day of October of any year unless prior approval, by the Director, is given.
8. The Applicant shall either:
  - (a) submit undisturbed soil samples, from the completed wastewater treatment lagoon, to hydraulic conductivity tests, the number and location of samples to be specified by the designated Environment Officer up to a maximum of twenty samples; or
  - (b) where undisturbed soil samples cannot be taken, test the soil of 4 plane surfaces from the completed wastewater treatment lagoon, for hydraulic conductivity by an insitu field test method as prescribed by the designated Environment Officer.

9. The Applicant shall, not less than 2 weeks before the wastewater treatment lagoon is placed in operation, submit to the Director the results of the tests carried out pursuant to Clause 8.
10. The Applicant shall install and maintain a fence around the wastewater treatment lagoon to limit access.
11. The Applicant shall construct and maintain an all-weather access road and a sewage dumping station for truck handled sewage. If the dumping facility incorporates a surface splash ramp, it shall be constructed with a smooth hard surface that can be easily washed free of solids.
12. The Applicant shall provide the Director with "as-constructed" drawings of the wastewater treatment lagoon on or before October 1, 1993.

**RESCINDED**



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**Larry Strachan, P. Eng.  
Director  
Environment Act**

**FILE : 3369.00**