

# Environment Act Licence

Manitoba  
Environment



Licence No. 1518

Issue Date DECEMBER 6, 1991

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

THIS LICENCE IS ISSUED TO:

## THE DEPARTMENT OF NORTHERN AFFAIRS ; APPLICANT (COMMUNITY OF MATHESON ISLAND)

The following limits, terms and conditions shall be complied with in connection with the construction and operation of a wastewater collection system and a sewage treatment plant located on Lot 16 Plan 2927 WLTO in Township 32, Range 4 EPM located in the Community of Matheson Island, and with discharge of treated effluent to Lake Winnipeg via a swampy area south of the sewage treatment plant:

1. The Applicant shall ensure that all sewage generated within the community is directed towards the sewage treatment plant except sewage treated at other facilities licensed under the Environment Act.
2. The Applicant shall limit the sewage load on the sewage treatment plant to the design capacities as follows:
  - (a) hydraulic loading not to exceed 34 cubic metres per day or 18.2 cubic metres over any 4 hour period;
  - (b) influent biochemical oxygen demand (BOD<sub>5</sub>) concentration not to exceed 400 milligrams per litre;
  - (c) influent total suspended solids concentration not to exceed 400 milligrams per litre; and
  - (d) influent ammonia (NH<sub>3</sub>) concentration not to exceed 35 milligrams per litre.

3. The Applicant shall not discharge effluent from the sewage treatment plant, where:
  - (a) the organic content of the sewage effluent, as indicated by the five day biochemical oxygen demand, is in excess of 30 milligrams per litre;
  - (b) the non-filterable residue content of the sewage effluent is in excess of 30 milligrams per litre;
  - (c) the fecal coliform content of the effluent, as indicated by the MPN index, is in excess of 200 per 100 millilitres of sample; and
  - (e) the total coliform content of the effluent, as indicated by the MPN index, is in excess of 1500 per 100 millilitres of sample.
4. The Applicant shall ensure that no untreated sewage is spilled in the area around the sewage treatment plant.
5. The Applicant shall provide a means of accessing the programmable logic controller from the sewage treatment plant to obtain the process time information and elapsed process time information.
6. The Applicant shall provide a heated and secured effluent monitoring station acceptable to the Director and equipped with:
  - (a) a direct access way for an effluent sampling line to a location near the discharge from the disinfection chamber;

- (b) an electrical power source of 15 amperes at 110 volts;  
and
  - (c) a connection cable and plug to link an ISCO portable automated sampler with an isolated contact closure type output of at least 25 millisecond duration from the programmable logic controller which signals the effluent discharge cycle.
7. The Applicant shall monitor the disinfection process of the sewage treatment plant by submitting, a minimum of five separate samples, collected from a single discharge event and at a frequency of at least one discharge event per month, for total and fecal coliform analysis and shall submit the results to the Director for each month within 15 days of receipt of the results for the month, or at a frequency approved by the Director.
  8. The Applicant shall dispose of the waste solids and sewage sludge at an approved facility.
  9. The Applicant shall ensure that the sewage treatment plant is not located within a distance of 75 metres from the nearest residence.
  10. The Applicant shall construct an all-weather access road and dumping facility for truck hauled sewage. The dump station shall be equipped with an influent pipe fitted with a quick-coupler. All trucks used to deliver sewage to the treatment plant are to be equipped with a flexible hose and matching adapters for the quick-coupler. All sewage delivered to the treatment plant is to be discharged through the hose and influent pipe into the trash tank below the liquid surface.

11. 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.
  
12. The Applicant shall provide to the Director, on or before August 1, 1992, an "as-constructed" plot plan of the sewage treatment facility.



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

**FILE : 3382.00**