

# Environment Act Licence Loi sur l'environnement Licence

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Licence No./Licence n° \_\_\_\_\_ **313 RR** \_\_\_\_\_

Issue Date/Date de délivrance **September 24, 1973**

Revised: September 9, 2002

Revised: May 8, 2006

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

**MANITOBA HYDRO; "the Licencee"**

for the operation of the Development being a wastewater collection system and an extended aeration sewage treatment plant located in Pointe du Bois on Section 36-15-14 EPM and with discharge of treated effluent from the sewage treatment plant into the Winnipeg River, in accordance with the information supplied with the letter dated March 7, 1972, and subject to the following specifications, limits, terms and conditions:

**DEFINITIONS**

In this Licence,

**"accredited laboratory"** means an analytical facility accredited by the Standard Council of Canada (SCC), or accredited by another accrediting agency recognized by Manitoba Conservation to be equivalent to the SCC, or be able to demonstrate, upon request, that it has the quality assurance/quality control (QA/QC) procedures in place equivalent to accreditation based on the international standard ISO/IEC 17025, or otherwise approved by the Director;

**"affected area"** means a geographical area excluding the property of the development;

**"approved"** means approved by the Director in writing;

**"bioassay"** means a method of determining toxic effects of industrial wastes and other wastewaters by using viable organisms;

**"composite sample"** means a quantity of wastewater consisting of a minimum of 10 equal volumes of effluent, or flow proportional volumes collected over a 24-hour period, and may be collected manually or by means of an automatic sampling device;

**\*\*A COPY OF THE LICENCE MUST BE KEPT ON SITE AT THE DEVELOPMENT AT ALL TIMES\*\***

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

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

**"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;

**"final discharge point"** means the outlet of the sewage treatment plant at which effluent monitoring can be located;

**"five-day biochemical oxygen demand"** (BOD<sub>5</sub>) means that part of oxygen usually associated with biochemical oxidation of organic material within 5 days at 20°C;

**"grab sample"** means a quantity of wastewater taken at a given place and time;

**"influent"** means water, wastewater, or other liquid flowing into the sewage treatment plant;

**"MPN index"** means the most probable number of coliform organisms in a given volume of wastewater as determined by statistical estimation;

**"odour nuisance"** means a continuous or repeated odour, smell or aroma, in an affected area which is offensive, obnoxious, troublesome, annoying, unpleasant or disagreeable to a person:

- a) residing in an affected area;
- b) working in an affected area; or
- c) present at a location in an affected area which is normally open to members of the public;

if the odour, smell or aroma

- d) is the subject of at least 5 written complaints received by the Director in a form satisfactory to the Director and within a 90 day period, and from 5 different persons falling within clauses a), b) or c), who do not live in the same household; or
- e) is the subject of at least one written complaint, received by the Director in a form satisfactory to the Director, from a person falling within clauses a), b) or c), and the Director is of the opinion that if the odour, smell or aroma had occurred in a more densely populated area there would have been at least 5 written complaints received within a 90 day period from 5 different persons who do not live in the same household;

**"sewage"** means human body, toilet, liquid, waterborne culinary, sink or laundry waste;

**"sewage effluent"** means sewage after it has undergone at least one form of physical, or biological treatment;

**"sewage treatment plant"** means the component of this development which consists of the central facility, of the wastewater treatment facilities, which contains all treatment processes exclusive of the wastewater collection system;

**"sludge"** means accumulated solid material containing large amounts of entrained water which has separated from wastewater during processing;

**"Standard Methods for the Examination of Water and Wastewater"** means the most recent edition of Standard Methods for the Examination of Water and Wastewater published jointly by the American Public Health Association, the American Waterworks Association and the Water Environment Federation;

**"total coliform"** means a group of aerobic and facultative anaerobic, gram-negative, non-spore 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;

**"waste disposal ground"** means an area of land designated by a person, municipality, provincial government agency, or crown corporation for the disposal of waste and approved for use in accordance with Manitoba Regulation 150/91 or a Licence pursuant to The Environment Act;

**"wastewater"** means the spent or used water of a community or industry which contains dissolved and suspended matter; and

**"wastewater collection system"** means the sewer and pumping system used for the collection and conveyance of domestic, commercial and industrial wastewater.

### GENERAL TERMS AND CONDITIONS

This Section of the Licence contains requirements intended to provide guidance to the Licencee in implementing practices to ensure that the environment is maintained in such a manner as to sustain a high quality of life, including social and economic development, recreation and leisure for present and future Manitobans.

1. In addition to any of the following specifications, limits, terms and conditions specified in this Licence, the Licencee shall, upon the request of the Director:
  - a) sample, monitor, analyze or investigate specific areas of concern regarding any segment, component or aspect of pollutant storage, containment, handling, treatment and disposal systems, for such pollutants, ambient quality, aquatic toxicity, seepage characteristics and discharge rates and for such duration and frequencies as may be specified;

- b) determine the environmental impact associated with the release of any pollutant from the Development; or
  - c) provide the Director within such time as may be specified, with such reports, drawings, specifications, analytical data, bioassay data, flow rate measurements and such other information as may from time to time be requested.
2. The Licencee shall, unless otherwise specified in this Licence:
  - a) carry out all preservations and analyses of liquid samples in accordance with the methods prescribed in the Standard Methods for the Examination of Water and Wastewater, or in accordance with equivalent preservation and analytical methodologies approved by the Director;
  - b) have analytical determinations undertaken by an accredited laboratory; and
  - c) report the results to the Director, in writing, within 60 days of the samples being taken.
3. The Licencee shall submit all information required to be provided to the Director under this Licence, in writing, in such form (including number of copies), and of such content as may be required by the Director.
4. The Licencee shall operate the wastewater collection system and the sewage treatment plant in such a manner that:
  - a) all the wastewater generated within the Pointe du Bois generating station powerhouse and Townsite area is directed towards the Pointe du Bois generating station powerhouse and Townsite sewage treatment plant or other approved wastewater treatment system;
  - b) only wastewater as defined in this Licence is discharged into the sewage treatment plant; and
  - c) waste solids and sewage sludge are treated, dewatered and disposed at a waste disposal ground.
5. The Licencee shall not cause or permit an odour nuisance to be created as a result of the construction, operation or alteration of the Development, and shall take such steps as the Director may require to eliminate or mitigate an odour nuisance.
6. The Licencee shall install, operate, and maintain an effluent discharge pipeline from the sewage treatment plant into the Winnipeg River, and shall take the necessary steps to prevent freezing of the effluent in the pipeline.
7. The Licencee shall install and maintain a security fence around all components of the sewage treatment plant that are not enclosed within secured buildings.

### **SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS**

8. The Licencee shall operate and maintain the sewage treatment plant in such a manner that:
  - a) the hydraulic loading is not in excess of 108.9 m<sup>3</sup> for any 24-hour period;
  - b) the organic loading, in terms of the five-day biochemical oxygen demand (BOD<sub>5</sub>), is not in excess of 22.7 kilograms for any 24-hour period; and
  - c) the release of offensive odours is minimized.
9. The Licencee shall operate and maintain the sewage treatment plant in such a manner that there is no contamination of groundwater.
10. The Licencee shall not discharge sewage effluent from the sewage treatment plant, where:
  - a) the organic content of the effluent, as indicated by the five-day biochemical oxygen demand (BOD<sub>5</sub>), is in excess of 30 milligrams per litre;
  - b) the fecal coliform content of the effluent, as indicated by the MPN index, is in excess of 200 per 100 millilitres of sample; and
  - c) the total coliform content of the effluent, as indicated by the MPN index, is in excess of 1500 per 100 millilitres of sample.

### **MONITORING AND REPORTING SPECIFICATIONS**

11. The Licencee 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 final discharge point; and
  - b) an electrical power source of 15 amperes at 110 volts.
12. The Licencee shall arrange for the taking of samples of treated sewage effluent at the final discharge point.
13. The Licencee shall:
  - a) take one composite sample of effluent from the sewage treatment plant during the discharge period once each month;
  - b) have the composite effluent sample analyzed at an accredited laboratory for five day biochemical oxygen demand and total suspended solids, using methods from the Standard Methods for the Examination of Water and Wastewater, or using other methods approved by the Director;
  - c) have the grab samples analyzed at an accredited laboratory for fecal coliform content and total coliform content using methods from the Standard Methods for the Examination of Water and Wastewater, or using other methods approved by the Director; and

- d) report the results to the Director within 60 days of the samples being taken.
14. The Licencee shall, in case of physical or mechanical breakdown of the Development:
- a) notify the Director immediately;
  - b) identify the repairs required to the Development; and
  - c) complete the repairs in accordance with the written instructions of the Director.
15. The Licencee shall actively participate in any future watershed-based management study, plan and/or nutrient reduction program, approved by the Director, for the Winnipeg River and associated waterways and watersheds.

#### REVIEW AND REVOCATION

- A. Licence No. 313 R 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.

  
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Tracey Braun, M. Sc.  
Director  
Environment Act

Client File No.: 577.00