



**Conservation and Water Stewardship**

Climate Change and Environmental Protection Division  
Environmental Approvals Branch  
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**CLIENT FILE NO.: 5465.00**

September 25, 2013

John Courtney  
Youth for Christ/Winnipeg Inc.  
333 King Street  
Winnipeg, MB R3B 0N1

Dear Mr. Courtney:

Enclosed is **Environment Act Licence No. 3063** dated September 25, 2013 issued to **Youth for Christ/Winnipeg Inc.** for the construction and operation of the Development being a wastewater collection and disposal system with a maximum hydraulic capacity of 14.0 cubic metres over any 24-hour period for the field serving the lodge and 3.0 cubic metres over any 24-hour period for the field serving the staff cabins, located in parts of SE and NE 6-16-13EPM in the Rural Municipality of Alexander and with discharge of effluent from septic tanks to engineered disposal fields, in accordance with the Proposal filed under *The Environment Act* on May 12, 2010 and subsequent information provided in the March, 2011 Design Report and in letters dated March 10, 2011 and March 16, 2012.

In addition to the enclosed Licence requirements, please be informed that all other applicable federal, provincial and municipal regulations and by-laws must be complied with. A Notice of Alteration must be filed with the Director for approval prior to any alteration to the Development as licensed.

For further information on the administration and application of the Licence, please feel free to contact Robert Boswick, P.Eng., Environmental Engineer at 204-945-6030.

Pursuant to Section 27 of *The Environment Act*, this licensing decision may be appealed by any person who is affected by the issuance of this Licence to the Minister of Conservation and Water Stewardship within 30 days of the date of the Licence.

Yours truly,

***“original signed by”***

Tracey Braun, M.Sc.  
Director  
Environment Act

c: Don Labossiere, Director, Environmental Compliance and Enforcement  
Alf Poetker, P. Eng., Genivar / Public Registries / Public Distribution List (see attached)

**NOTE: Confirmation of Receipt of this Licence No. 3063 (by the Licensee only) is required by the Director of Environmental Approvals. Please acknowledge receipt by signing in the space provided below and faxing a copy (letter only) to the Department by October 9, 2013.**

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On behalf of Youth for Christ/Winnipeg Inc.

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Date

# LICENCE

Licence No. / Licence n° 3063

Issue Date / Date de délivrance September 25, 2013

In accordance with *The Environment Act* (C.C.S.M. c. E125)  
Conformément à la Loi sur l'environnement (C.P.L.M. c. E125)

Pursuant to Sections 11(1) / Conformément au Paragraphe 11(1)

**THIS LICENCE IS ISSUED TO: / CETTE LICENCE EST DONNÉE À:**

**Youth for Christ/Winnipeg Inc.; "the Licencee"**

for the construction and operation of the Development being a wastewater collection and disposal system with a maximum hydraulic capacity of 14.0 cubic metres over any 24-hour period for the field serving the lodge and 3.0 cubic metres over any 24-hour period for the field serving the staff cabins, located in parts of SE and NE 6-16-13EPM in the Rural Municipality of Alexander and with discharge of effluent from septic tanks to engineered disposal fields, in accordance with the Proposal filed under *The Environment Act* on May 12, 2010 and subsequent information provided in the March, 2011 Design Report and in letters dated March 10, 2011 and March 16, 2012 and subject to the following specifications, limits, terms and conditions:

## **DEFINITIONS**

**"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 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;

**"approved"** means approved by the Director or assigned Environment Officer in writing;

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

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

**"disposal field"** means a system of wastewater effluent chambers laid in a shallow excavation or trenches and covered with top soil for the treatment and disposal of wastewater effluent;

**"effluent"** means treated wastewater flowing or pumped out of the wastewater disposal system;

**"effluent filter"** means a device installed at the outlet of, or immediately after, a septic tank to assist in the removal of solids;

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

**"influent"** means water, wastewater, or other liquid flowing into the wastewater disposal system;

**"loam type soil"** means a soil composed of sand, silt, and clay type soils present within certain proportions;

**"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, 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;

**"piezometer"** means an instrument for measuring pressure head in a conduit, tank, or soil;

**"record drawings"** means engineering drawings complete with all dimensions which indicate all features of the wastewater disposal system as it has actually been built;

**"septage"** means the sludge produced in individual on-site wastewater disposal systems such as septic tanks;

**"septic tank"** means a settling tank in which settled sludge is in immediate contact with the wastewater flowing through the tank and the organic solids are decomposed by anaerobic bacterial action;

**"sewage"** means household and commercial wastewater that contains human waste;

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

**"sludge solids"** means solids in sludge;

**"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;

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

**"wastewater effluent"** means wastewater after it has undergone at least one form of physical, chemical or biological treatment.

### **GENERAL SPECIFICATIONS**

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.

#### **Future Sampling**

1. In addition to any of the 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, treatment handling, disposal or emission systems, for such pollutants or, ambient quality, aquatic toxicity, leachate characteristics and discharge rates, for such duration and at such frequencies as may be specified;
  - b) determine the environmental impact associated with the release of any pollutant(s) from the wastewater disposal system; or

- c) provide the director within such time as may be specified, with such reports, drawings, specifications, analytical data, description of sampling and analytical procedures being used, bioassay data, flow rate measurements and such other information as may from time to time be requested.

### **Sampling Methods**

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 all analytical determinations undertaken by an accredited laboratory; and
  - c) report the results to the Director, in writing and in an electronic format acceptable to the Director, within 60 days of the samples being taken.

### **Reporting Format**

3. The Licencee shall submit all information required to be provided to the Director or Environment Officer under this Licence, in writing, in such form (including number of copies), and of such content as may be required by the Director or Environment Officer, and each submission shall be clearly labelled with the Licence Number and Client File Number associated with this Licence.

### **Land Agreements**

4. The Licencee shall acquire any necessary land agreements prior to constructing the Development.

### **General Operating Requirements**

5. The Licencee shall operate the Development in such a manner that:
  - a) all wastewater generated at the camp is directed toward the Development or other approved sewage treatment facilities;
  - b) only wastewater as defined in this Licence is discharged into the Development;
  - d) septage and sludge solids from the septic tanks and settling tanks of the Development are disposed at a wastewater treatment facility operated under the authority of a Licence issued under *The Environment Act*;
  - e) fats, grease and oils collected in associated interceptors are disposed of at a wastewater treatment facility operated under the authority of a Licence

- issued under *The Environment Act* or by others means approved by the Director;
- f) solids collected in associated effluent filters are disposed of at a waste disposal ground operating under the authority of a permit or a Licence issued under *The Environment Act* or by others means approved by the Director; and
  - g) septage, sludge solids, solids, and fats, oils and grease are transported in containers in such a manner to prevent loss of solids to the satisfaction of an Environment Officer.

### **Wastewater Sources**

- 6. The Licencee shall not direct wastewater from sources outside of the camp to the Development.

### **Classification Under Regulation**

- 7. The Licencee shall obtain and maintain classification of the Development pursuant to *Manitoba Regulation 77/2003* respecting *Water and Wastewater Facility Operators* or any future amendment thereof and maintain compliance with all requirements of the regulation including, but not limited to, the preparation and maintenance of a Table of Organization, Emergency Response Plan and Standard Operating Procedures.

### **Operator Certification**

- 8. The Licencee shall carry out the operation of the Development with individuals properly certified to do so pursuant to *Manitoba Regulation 77/2003* respecting *Water and Wastewater Facility Operators* or any future amendment thereof.

### **Odour Nuisance**

- 9. 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.

### **General Operation and Maintenance**

- 10. The Licencee shall install, operate and maintain the Development such that freezing of the effluent in the pipes is prevented.
- 11. The Licencee shall install, operate and maintain the engineered wastewater effluent disposal fields of the Development such that effluent is discharged through the disposal fields with no surface breakout.

12. The Licencee shall not spill, or allow to be spilled, wastewater and/or sludge in the areas around the Development.
13. The Licencee shall undertake a regular program of maintenance for the Development, including inspections to ensure that all tanks are watertight.

#### **Security and Safety**

14. The Licencee shall install and maintain a security fence around all components of the Development that are not buried or enclosed within secured buildings.
15. The Licencee shall install and maintain lockable access covers for the septic tank access points that shall remain locked at all times that access to the septic tanks is not required for normal operation or servicing of the septic tank components of the system.

#### **Secondary Containment**

16. The Licencee shall construct and maintain an effective secondary containment dyke between the engineered wastewater effluent disposal fields of the Development and Pinawa Bay.

#### **Future Studies**

17. The Licencee shall actively participate in any current or future watershed-based management study, plan and/or nutrient reduction program, approved by the Director, for the Winnipeg River and associated waterways and watersheds.

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

#### **Notification of Construction Commencement**

18. The Licencee shall notify the assigned Environment Officer not less than two weeks prior to beginning construction of the Development. The notification shall include the intended starting date of construction and the name of the Licencee's contact person at the construction site.

#### **Inspections Access**

19. The Licencee shall not cover the various components of the Development in a manner that obscures them from view or interferes with inspection of the tanks, or engineered wastewater effluent disposal fields, without authorization from the assigned Environment Officer.

### **Fat, Oil and Grease Interceptors**

20. The Licencee shall install, operate and maintain fat, oil and grease interceptors as components of the Development to prevent conveyance of fat, oil and grease to the engineered wastewater effluent disposal fields.

### **Effluent Filters**

21. The Licencee shall install, operate and maintain effluent filter(s) as components of the Development in accordance with *CSA Standard B65-12, Installation Code for Decentralized Wastewater Systems*, to prevent conveyance of solids to the engineered wastewater effluent disposal fields.

### **Underlying Soil Requirements**

22. The Licencee shall install the engineered wastewater effluent disposal fields as designed over a silty clay loam type soil layer, the uppermost surface of which is at least 1.0 metre above bedrock, the normal high water table, or a layer of impervious material at that location.

### **Maximum Daily Flow Rates**

23. The Licencee shall operate and maintain the Development in such a manner that:
- a) the maximum daily flow rate of wastewater effluent to the engineered wastewater effluent disposal field serving the lodge is not in excess of 14.0 cubic metres over any 24-hour period; and
  - b) the maximum daily flow rate of wastewater effluent to the engineered wastewater effluent disposal field serving the staff cabins is not in excess of 3.0 cubic metres over any 24-hour period; and

## **MONITORING AND REPORTING SPECIFICATIONS**

### **Monitoring Records**

24. The Licencee shall monitor, and make the records of such monitoring available to the Director as may be requested, the wastewater management process for the following parameters:
- a) total flow rate(s) into the Development;
  - b) total flow rates into each wastewater effluent disposal field of the Development; and
  - c) other process parameters approved or required by the Director.



**Required Groundwater Monitoring Plan**

25. The Licencee shall, within three months of the date of this Licence, submit to the Director for approval, an engineered groundwater monitoring plan relating to the engineered wastewater effluent disposal fields that:
- a) includes the installation and maintenance of piezometers to be installed around the engineered wastewater effluent disposal fields to monitor groundwater characteristics in the soils underlying the field; and
  - b) identifies:
    - i) how often and which groundwater characteristics will be monitored;
    - ii) who will monitor, interpret, and report the groundwater characteristics;
    - iii) when groundwater monitoring will commence; and,
    - iv) strategies designed to allow the engineered wastewater effluent disposal fields of the Development to remain in compliance with this Licence, related regulations, and the Manitoba Water Quality Standards, Objectives, and Guidelines.

**Required Surface Water Quality Monitoring Plan**

26. The Licencee shall, within three months of the date of the Licence, submit to the Director for approval, a surface water quality monitoring program for the Lee River and Pinawa Bay that:
- a) will be undertaken for at least the first six seasons of operation of the Development;
  - b) includes monitoring for:
    - i) nitrate – nitrite;
    - ii) total phosphorous;
    - iii) ammonia;
    - iv) Total Kjeldhal Nitrogen;
    - v) 5-day BOD;
    - vi) total coliform; and
    - vii) fecal coliform;
  - c) identifies:
    - i) how often and where the surface water quality will be monitored;
    - ii) who will monitor, interpret, and report the surface water characteristics;
    - iii) when the surface water monitoring will commence; and
    - iv) strategies designed to allow the Development to remain in compliance with this Licence, related regulations, and the Manitoba Water Quality Standards, Objectives, and Guidelines.

### **Monitoring Plan Implementation**

27. The Licencee shall implement the monitoring plans approved pursuant to Clauses 25 and 26 of this Licence.

### **Required Inspections**

28. The Licencee shall arrange with the designated Environment Officer a mutually acceptable time and date for any required inspections between the 15<sup>th</sup> day of May and the 15<sup>th</sup> day of October of any year, unless otherwise approved by the Environment Officer.

### **Equipment Breakdown**

29. The Licencee shall, in the case of physical or mechanical equipment breakdown or process upset where such breakdown or process upset results or may result in the release of a pollutant in an amount or concentration, or at a level or rate of release, that causes or may cause a significant adverse effect, immediately report the event by calling 204-944-4888 (toll-free 1-855-944-4888). The report shall indicate the nature of the event, the time and estimated duration of the event and the reason for the event.
30. The Licencee shall, following the reporting of an event pursuant to Clause 29,
- a) identify the repairs required to the mechanical equipment;
  - b) undertake all repairs to minimize unauthorized discharges of a pollutant;
  - c) complete the repairs in accordance with any written instructions of the Director; and
  - d) submit a report to the Director about the causes of breakdown and measures taken, within one week of the repairs being done.

### **Record Drawings**

31. The Licencee shall:
- a) prepare "record drawings" for the wastewater disposal system and shall label the drawings "record drawings"; and
  - b) provide to the Director, within four months of the approved commissioning of the wastewater disposal systems, two sets of "record drawings" of the wastewater disposal system.

**REVIEW AND REVOCATION**

- A. 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.
- B. If the Licencee has not commenced construction of the Development within three years of the date of this Licence, the Licence is revoked.
- 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*.

*“original signed by”*

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**Tracey Braun, M.Sc.**  
**Director**  
**Environment Act**

**File No.: 5465.00**