

# Environment Act Licence

Manitoba  
Environment



Licence No. 1995  
Issue Date February 21, 1995

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

THIS LICENCE IS ISSUED TO:

**UNITED GRAIN GROWERS LIMITED - BOISSEVAIN: "the Licencee"**

for the upgrading and operation of the Development being a crop protection products warehouse, an anhydrous ammonia storage tank, and distributing facilities to be located on the NW 1/4 19-3-19 WPM in the Rural Municipality of Morton, subject to the following specifications, limits, terms and conditions:

## DEFINITIONS

In this Licence,

"**affected area**" means a geographical area affected by an odour nuisance.

"**A-weighted sound level**" means the sound level measured in dBA units with a sound level meter set on the A-weighting network, being a filter designed to approximate the relative sensitivity of the normal human ear to different frequencies of sound;

"**ambient concentration**" means the measurement of a substance contained in an air sample (corrected to a temperature of 25 ° C and to a pressure of 101.3 kilopascals) which has been collected from any point beyond the property line of the Development;

"**appreciable impulsive or impact character**" means sound which has a significant amount of impulsive or impact nature, such as hammering, explosions and clanking or banging. Impulsive or impact sounds are sounds of short duration, usually less than one second, characterized by an abrupt onset followed by a rapid decay;

"**chemical**" includes, but is not limited to petroleum products, fertilizers and pesticides;

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

"**dB**" (decibel) means a dimensionless measure of sound level or sound pressure level, where,

$$\text{sound level} = 20 \log_{10} \frac{\text{sound pressure (actual)}}{\text{sound pressure (reference)}};$$

"**4 minute period(s) in the aggregate**" means any 16 readings, not necessarily contiguous, taken at 15 second intervals within a 1 hour sampling period;

"**Leq (energy equivalent level)**" means the A-weighted sound level (as decibels {dBA}) of a constant or steady sound, for a stated period, which has an amount of acoustic energy equivalent to that contained in the sound being measured;

"**Leq(1)**" means the  $L_{eq}$  for a one hour period;

"**opacity**" means the degree to which emissions reduce the transmission of light and obscure the view of an object in the background;

"**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 the affected area; or
- (c) present at a location in the affected area which is normally open to the members of the public;

if the odour, smell or aroma

- (d) is the subject of at least 5 written complaints in a form satisfactory to the Director and from 5 different persons falling within clauses (a), (b), or (c), who are unrelated and who do not live in the same household, received by the Director within a 90 day period; or
- (e) is the subject of at least one written complaint 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 from 5 different persons who are unrelated and who do not live in the same household within a 90 day period.

"**particulate matter**" means any finely divided liquid or solid matter other than water droplets;

"**particulate residue**" means that part or portion of an atmospheric emission which is deposited onto a surface;

"**pesticide storage structure(s)**" means any building(s) where agricultural crop protection products are stored for either commercial or retail purposes;

"**permanent anhydrous ammonia tank(s)**" means any storage container certified for the storage of anhydrous ammonia which is attached to a fixed supporting structure;

"**point source**" means any point of emission from a Development where pollutants are ducted into the atmosphere;



"**predominant discrete tone**" means sound (for example a whine or hum) having a one-third octave band sound level which, when measured in a one-third octave band, exceeds the arithmetic average of the sound levels of the two adjacent one-third octave bands on either side of such one-third octave band by:

- i) 5 dB for such one-third octave band with a center frequency from 500 Hertz to 20,000 Hertz, inclusive, provided such one-third octave band sound level exceeds the sound level of each adjacent one-third octave band;
- ii) 8 dB for such one-third octave band with a center frequency from 160 Hertz to 400 Hertz, inclusive, provided such one-third octave band sound level exceeds the sound level of each adjacent one-third octave band; or
- iii) 15 dB for such one-third octave band with a center frequency from 25 Hertz to 125 Hertz, inclusive, provided such one-third octave band sound level exceeds the sound level of each adjacent one-third octave band;

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

### GENERAL SPECIFICATIONS

1. The Licencee shall comply with the current edition of the Crop Protection Institute of Canada's warehousing standards regarding the handling and storage of crop protection chemicals, and with all applicable federal and provincial regulations.
2. The Licencee shall install and maintain, for any structures used for the storage of crop protection chemicals, an automatic system(s) for fire detection and security.
3. The Licencee shall ensure that a high standard of equipment maintenance and good housekeeping and operational practices are carried out with respect to the Development, at all times.
4. The Licencee shall reduce the production and dissemination of wastes by initiating and maintaining waste reduction and waste recycling programs.

### LIMITS, TERMS AND CONDITIONS

#### I - AIR EMISSIONS

5. The Licencee shall not emit ammonia from the Development such that the ambient concentration of ammonia in air is in excess of:
  - i) 10 parts per million at any time when measured at any point beyond the property line of the Development; or
  - ii) 2 parts per million on an 1-hour average when measured at any point beyond the property line of the Development.
6. The Licencee shall not emit particulate matter from the Development such that:
  - i) particulate matter:
    - a) exceeds 0.23 grams per dry standard cubic metre calculated at 25 degrees Celsius and 760 millimetres of mercury, corrected to 12 percent carbon dioxide for processes involving combustion from any point source of the Development;

- b) exhibits a visible plume with an opacity of greater than 5 percent at any point beyond the property line of the Development; or
    - c) results in the deposition of visible particulate residue at any time beyond the property line of the Development; or
  - ii) opacity from any point source of the Development equals or exceeds:
    - a) 20 percent for a 4 minute period(s) in the aggregate in any one hour; or
    - b) 40 percent at any time.
- 7. The Licencee shall not construct, alter or operate the Development, or permit the Development to be constructed, altered or operated, in a way which causes or results in an odour nuisance, and shall take steps as the Director may require to eliminate or mitigate an odour nuisance.
- 8. The Licencee shall not emit sound from any part or process of the Development, such that any emission when measured at a point of reception within an area which is zoned as residential, exceeds the following  $\{L_{eq}(1)\}$  limits:
  - i) subject to sub-Clause 8 (ii):
    - a) 60 dBA during the daytime hours of 7:00 a.m. to 10:00 p.m., local time; or
    - b) 50 dBA during the nighttime hours of 10:00 p.m. to 7:00 a.m., local time; or
  - ii) when the sound has an appreciable impulsive or impact character or a predominant discrete tone:
    - a) 55 dBA during the daytime hours of 7:00 a.m. to 10:00 p.m., local time; or
    - b) 45 dBA during the nighttime hours of 10:00 p.m. to 7:00 a.m., local time.
- 9. The Licencee shall not emit sound from any part or process of the Development, such that any emission when measured at a point of reception within an area which is zoned as commercial, exceeds the following  $\{L_{eq}(1)\}$  limits:
  - i) 70 dBA during the daytime hours of 7:00 a.m. to 10:00 p.m., local time; or
  - ii) 60 dBA during the nighttime hours of 10:00 p.m. to 7:00 a.m., local time.
- 10. The Licencee shall not emit sound from any part or process of the Development, such that any emission when measured at a point of reception, beyond the property line of the Development and within an area which is zoned as industrial, exceeds an  $L_{eq}(1)$  of 70 dBA at any time.

## II - LIQUID EMISSIONS

- 11. The Licencee shall not direct any spillage, contaminated run-off or pollutant, other than sewage, to an approved sewage disposal system.
- 12. The Licencee shall contain and clean up immediately any chemical spills to prevent soil, surface water or ground water contamination.



13. The Licencee shall ensure that the site retention area is protected with a minimum of 45 cm of compacted clay material or other materials approved by the Director.
14. The Licencee shall ensure that the Development is adequately diked and that control culverts are installed at the low end of the Development and remain in the closed position. The Regional Office of Manitoba Environment in Brandon shall be contacted for approval to open the control culverts to permit land drainage.
15. The Licencee shall ensure that the surface of the containment area is inspected semiannually for desiccation cracks, and that the containment area's continuity is maintained.

### **III - REMEDIAL ACTION**

16. The Licencee, upon obtaining approval from an Environment Officer, shall immediately dispose of any contaminated material in accordance with the approval.
17. The Licencee shall remediate, within a time frame stipulated by the Director, all on and off-site environmental impacts as a result of any release of anhydrous ammonia.

### **IV - ANHYDROUS AMMONIA SETBACK DISTANCES**

18. The Licencee shall locate any permanent anhydrous ammonia tank(s) used for the on-site storage of ammonia prior to redistribution, a minimum distance of:
  - i) 800 metres from residential areas, schools, hospitals and other institutions;
  - ii) 100 metres from a single isolated residence; and
  - iii) 100 metres from the edge of the right of way of a highway.

### **V - EMERGENCY CONTINGENCY PLAN**

19. The Licencee shall submit, within ninety (90) days of the issuance of this Licence, an emergency response contingency plan to be approved by the Director. This plan shall include, but not be limited to, items which will address: measures implemented for spill prevention and containment; security; personnel training; fire and other response arrangements.

### **VI - PESTICIDES**

20. The Licencee shall construct and maintain the concrete floors and curbs of all pesticide storage structure(s) so as to prevent spilled liquids from leaking into the soil.
21. The Licencee shall create and maintain a current duplicate inventory of all pesticides stored at the Development, with one copy stored at the premises of the Development, and the other copy stored at a location off-site from the Development.
22. The Licencee shall store only pesticides registered under the Pest Control Products Act of Canada at the Development.

23. The Licencee shall contain on the Development:
- i) any on-site pesticide spill;
  - ii) wastewater generated from any response action due to an on-site release of pesticides; and
  - iii) contaminated water resulting from the extinguishing of any fire involving pesticides.
24. The Licencee shall locate the pesticide storage structure(s) a minimum distance of:
- i) 100 metres from any property zoned residential; and
  - ii) 100 metres from single residences
- unless a written consent form is obtained from the owner(s).

#### **VII - SAMPLING AND ANALYSIS**

25. The Licencee, at the request of the Director, shall conduct soil, air (stack and/or ambient), ground water, surface water or noise monitoring at or adjacent to the Development.
26. The Licencee shall have each soil, air, or water sample collected pursuant to Clause 25 analysed by a laboratory approved by the Director and using methods approved by the Director for any of the following analytes as may be specified by the Director:
- i)  $\text{NH}_3$  - N (Sol.);
  - ii)  $\text{NH}_3$  - (in Air);
  - iii)  $\text{NO}_3$  -  $\text{NO}_2$  - N (Diss.);
  - iv) Kjeldhal, Total - N;
  - v) P - Total;
  - vi) Pesticides; and
  - vii) Particulate Matter (in air).
27. The Licencee shall submit a copy of the sampling report complete with analytical results as specified pursuant to Clauses 25 and 26, to the Director within 60 days of the completion of the sampling program.

#### **REVOCATION**

If in the opinion of the Director the Licencee has exceeded or is exceeding the specifications, limits, terms or conditions set out herein, the Director may revoke, temporarily or permanently, this Licence.



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