

Licence No.: 2374

Licence Issued: November 26, 1998

**IN ACCORDANCE WITH THE MANITOBA ENVIRONMENT ACT (C.C.S.M. c. E125)
THIS LICENCE IS ISSUED PURSUANT TO SECTION 10(1) TO:**

TURKO FERTILIZERS - R.M. OF SHOAL LAKE; "the Licencee"

for the construction, installation and operation of the Development being a bulk granular fertilizer blending/storage, an anhydrous ammonia storage tank, and distribution facilities to be located on the SW¼ 23-18-23 WPM in the Rural Municipality of Shoal Lake, and in accordance with the Proposal filed under The Environment Act on September 28, 1998, and subject to the following specifications, limits, terms and conditions:

DEFINITIONS

In this Licence,

"**accredited laboratory**" means any facility accredited by the Standard Council of Canada (SCC); or facilities accredited by another accrediting agency recognized by Manitoba Environment to be equivalent to the SCC; or any facility able to demonstrate to Manitoba Environment, upon request, that it has the quality assurance/quality control (QA/QC) procedures in place equivalent to accreditation based on the Canadian Standard Can/CSA-Z753, extension of the international standard ISO 9000, Guide 25;

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

"**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;

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

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

"**noise nuisance**" means an unwanted sound, in an affected area, which is annoying, troublesome, 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 the members of the public;

if the unwanted sound

- 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;

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

"**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;

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

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

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

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

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. The Licencee shall, at all times during the operation of the Development, ensure that a high standard of equipment maintenance and operational practices are implemented.
2. The Licencee shall reduce the production and dissemination of wastes by initiating and maintaining waste reduction and waste recycling programs.
3. The Licencee shall not emit ammonia from the Development such that the ambient concentration of ammonia in air is in excess of:
 - a. 10 parts per million at any time when measured at any point beyond the property line of the Development; or
 - b. 2 parts per million as an 1-hour average when measured at any point beyond the property line of the Development.
4. The Licencee shall not emit particulate matter from the Development such that:
 - a. particulate matter:
 - i. 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;
 - ii. exhibits a visible plume with an opacity of greater than 5 percent at any point beyond the property line of the Development; or
 - iii. results in the deposition of visible particulate residue at any time beyond the property line of the Development; or
 - b. opacity from any point source of the Development equals or exceeds:
 - i. 20 percent as the average of any 24 consecutive opacity observations taken at 15 second intervals;
 - ii. 20 percent for more than 16 individual opacity observations within any 1 hour period; or
 - iii. 40 percent for any individual opacity observation.
5. The Licencee shall not cause or permit a noise nuisance to be created as a result of the operation of the Development, and shall take such steps as the Director may require to eliminate or mitigate a noise nuisance.
6. The Licencee shall at the request of the Director, conduct soil, air (stack and/or ambient), ground water, surface water or noise monitoring at or adjacent to the Development.
7. The Licencee shall, unless otherwise specified in this Licence, ensure that all analytical determinations are undertaken by an accredited laboratory for any of the following analytes as may be specified by the Director:

- a. NH_3 - N (Sol.);
 - b. NH_3 - (in Air);
 - c. NO_3 - NO_2 - N (Diss.);
 - d. Kjeldhal, Total - N;
 - e. P - Total;
 - f. Pesticides; and
 - g. Particulate Matter (in air).
8. The Licencee shall submit a copy of the sampling report complete with analytical results as specified pursuant to Clauses 6 and 7 of this Licence, to the Director within 60 days of the completion of the sampling program.
 9. The Licencee shall install a minimum 2.4 metre high fence surrounding the Anhydrous Ammonia Tank to discourage access to unauthorized persons.

SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS

I - LIQUID EMISSIONS

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

II - REMEDIAL ACTION

12. The Licencee, subject to obtaining approval from an Environment Officer, shall immediately dispose of any contaminated material in accordance with the approval.
13. 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.

III - EMERGENCY CONTINGENCY PLAN

14. 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.

IV - ANHYDROUS AMMONIA SETBACK DISTANCES

15. The Licencee shall not locate any permanent anhydrous ammonia tank(s) used for the on-site storage of ammonia prior to redistribution, within:
 - a. 800 metres from residential areas, schools, hospitals or other institutions;
 - b. 100 metres from a single isolated residence; or
 - c. 100 metres from the edge of the right of way of a highway.

V - FERTILIZER PRODUCTS

16. The Licencee shall surface all areas of the Development where fertilizer is stored, loaded, blended, transferred or otherwise handled, in a manner and using materials approved by the Director.
17. The Licencee shall grade, dike or curb all areas where fertilizer is stored, loaded, blended, transferred or

otherwise handled in a manner and using materials approved by the Director, such that all product spillage and contaminated run-off water from these areas is contained within the Development.

VI - SITE DECOMMISSIONING

18. The Licencee shall submit within one (1) year prior to closure of the facility, for the approval of the Director, a formal detailed Decommissioning Plan for the facility.
19. The Licencee shall implement, on closure of the facility, the approved Decommissioning Plan.

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 construction of the development is not commenced 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 10 of The Environment Act.

"original signed by Serge Scrafield for"

Larry Strachan, P. Eng.

Director

Environment Act

Client File No.: 4379.00