# Environment Act Licence

Manitoba Environment



Licence No.	1731		
Issue Date	DECEMBER	17,	1993

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

THIS LICENCE IS ISSUED TO:

## The Rural Municipality of Macdonald: "the Licencee"

for the construction and operation of the Development being a municipal water distribution project in the vicinities of Brunkild and Oak Bluff subject to the following specifications, limits, terms and conditions:

### Specifications, Limits, Terms and Conditions

- 1. The Licencee shall construct the Development in accordance with the Environment Act Proposal dated September 10, 1993, submitted by the Manitoba Water Services Board on behalf of the Licencee.
- 2. The Licencee shall construct stream and drain crossings by boring, tunnelling or augering under the bed as described in the Proposal. The Licencee shall not undertake any method of watercourse crossing other than that authorized by this Licence without prior written approval from the Director.
- 3. The Licencee shall re-establish the profile, compact and seed all excavated areas within the rights-of-way of provincial roads and provincial highways.
- 4. The Licencee shall obtain all necessary permits and agreements from Manitoba Highways and Transportation and the Highway Traffic Board prior to undertaking construction on or adjacent to highway rights-of-way.
- 5. The Licencee shall separate and replace topsoil from backhoe and trenching operations in accordance with the methodology described in Figures 1, 2 and 3 attached to this Licence. This requirement is not applicable where the topsoil has been previously disturbed due to the construction of roads or drains.
- 6. The Licencee shall ensure that the operation of the municipal water supply is in accordance with Manitoba Regulations under the Public Health Act and all operating requirements as recommended by Manitoba Environment.

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- 7. The Licencee shall ensure that all waste oil products generated by the machinery used in the construction of the Development are collected and disposed of in accordance with applicable Manitoba Environment and legislation requirements.
- 8. The Licencee shall, during construction, ensure that fuel storage areas established for the construction of the Development shall comply with the requirements of Manitoba Regulation 97/88R respecting Storage and Handling of Gasoline and Associated Products.

#### Revocation

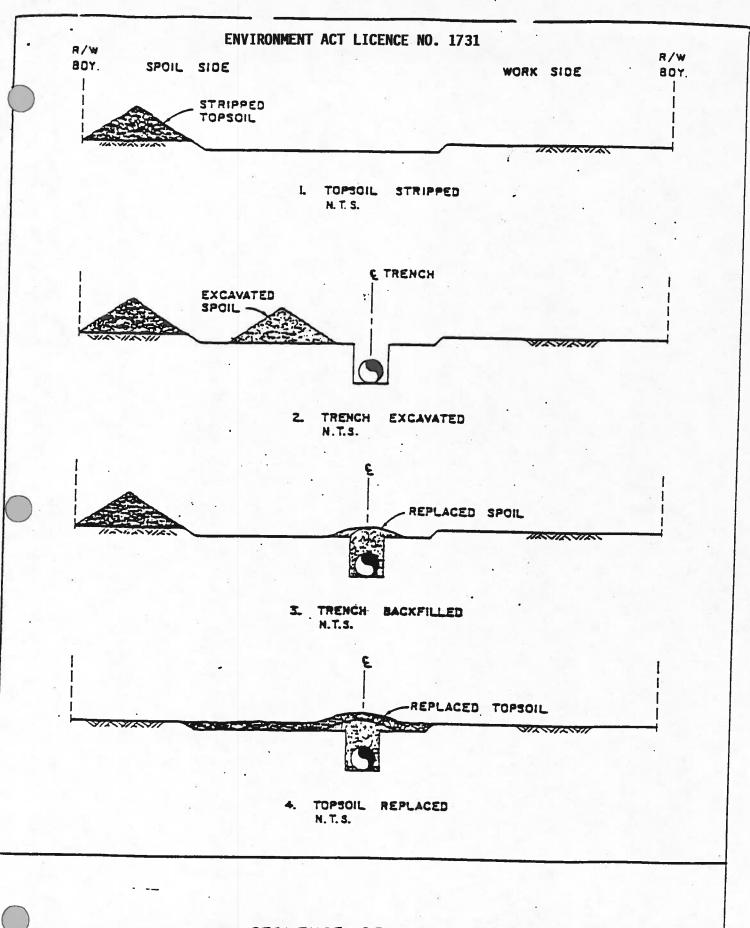
If, in the opinion of the Director, the Licencee has exceeded or is exceeding the limits, or has not complied or is not complying with the specifications, terms or conditions set out herein, the Director may revoke this Licence either temporarily or permanently.

Larry Strachan, P. Eng.

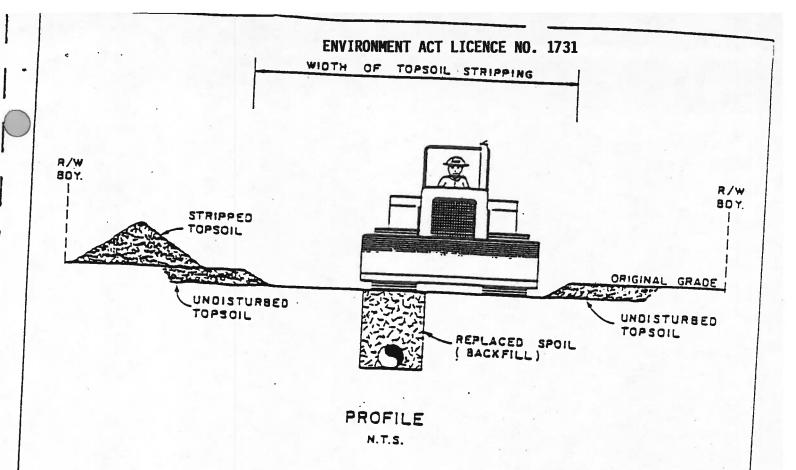
Director,

**Environment Act** 

File No: 3477.10



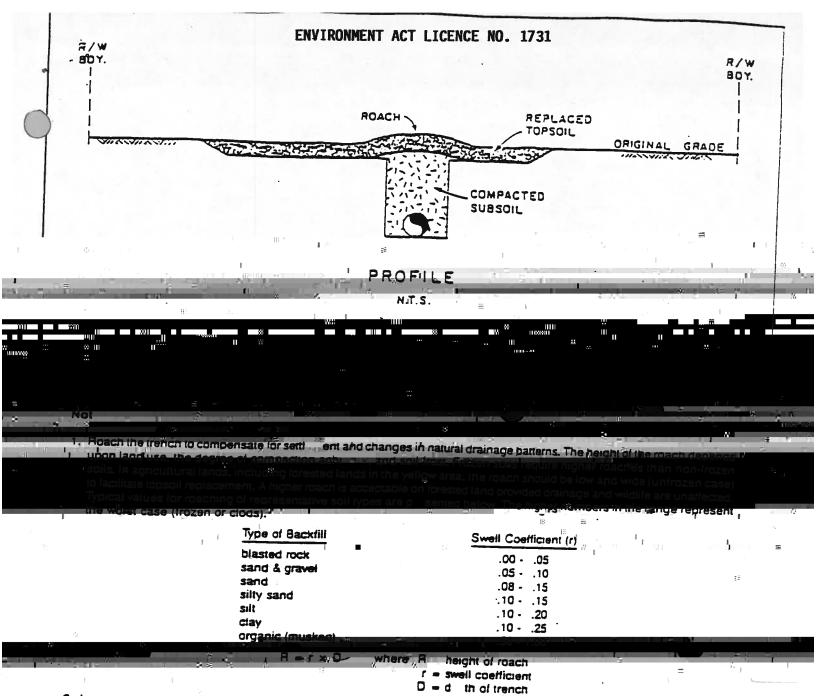
SEQUENCE OF TOPSOIL HANDLING



#### Notes.

- 1. Except in rocky or muskeg areas, compact the backfilled subsoil to minimize settlement. The degree of compaction which can be achieved is limited by soil type, frost and moisture content, depth of cover, pipe strength and insulation, and other lactors. Typically, compaction is achieved by a lew passes with a crawler tractor. In special cases such as irrigated fields and open cut road crossings, 100% compaction is desirable and requires special equipment and compaction in multiple lifts.
- 2. Dispose of excess subsoil in locations satisfactory to the landowner and in a manner which will prevent mixing with topsoil.

COMPACTION OF BACKFILL



- 2. Leave periodic gaps in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles and at Irench break in roach (e.g., 250 m), at all obvious drainage coulles are at all obvious drainage
- 3. Replace topsoil evenly after trench has settled or has been compacted.

Source: Formula adapted from Transcanada Pipelines, 1979.

ROACHING THE TRENCH