Manitoba

MANITOBA WATER STEWARDSHIP
THE WATER RESOURCES ADMINISTRATION ACT

Application for Permit in the Red River Valley Designated Flood Area

---

I, _____ apply to build or place a
(Applicant's Name)

_____in the Red River Valley Designated Flood Area on the parcel of land

described in Part b) below, in the _____
(R.M./ Town/Village)

in the Province of Manitoba.

In making this application I am fully aware that neither the Government of Manitoba nor any department, branch, or agency thereof can forecast or guarantee that the flood protection level would not be equalled or exceeded in the future; that I agree to comply with the conditions stipulated in the permit.

Address:	Signature of Applicant:
	Date:
Postal Code:	Telephone(s):

The following documentation is required in support of this application:

a) Tax Roll Number _____.

b) An indication of proof of ownership which may be one of the following:
- a certificate of title
- a municipal tax assessment notice
- an accepted offer to purchase

c.) A sketch plan showing the dimensions of the buildings or structures and the location on the property relative to the property boundaries.

Indicate below the type of construction that you will be undertaking. Mark as many as apply to this application.

House with a basement or cellar (____)

House without a basement of cellar (____)

House raised on piles or equivalent (elevated structure) (____)

Farm machinery shed, workshop, or storage for agricultural products (____)

Livestock Barn (____)

Detached garage (____)

Liquid or gas storage tank (____)

Dyke (____)

If a footing or foundation is **not** required, as in the case of a dyke, this application is now complete. If a footing or foundation is necessary, please note the following.

Manitoba Regulation 59/2002 requires that both the **main floor** of a structure and the **finished grade** at the building line be set at certain minimum elevations in relation to the Flood Protection Level. The Water Branch assigns the elevations and requires confirmation by inspection that elevations are met or exceeded. This application is for the Stage One Permit that allows construction of the foundation or footing of your structure. To allow the Water Branch to determine the required elevations, **please provide a copy** of the construction plan showing the design of your foundation. One typical vertical foundation cross-section is all that is required if the foundation is the same on all sides, otherwise show each change in cross-section. If an attached garage is to be constructed, include a cross-section of the wall adjacent to the garage as well. The Water Branch will calculate the required elevations and issue the Stage One Permit, which will be returned so that construction can begin. Once the foundation has been constructed and the specified foundation elevation has been confirmed, a Stage Two permit allowing construction to continue above the foundation or footing will be issued by the Water Branch.

Upon acceptance of the completed application, the Water Branch will establish a reference mark at or near the location chosen by the applicant, showing the flood protection level. We will also issue the Stage One permit as indicated above, and return a copy of the foundation sketch showing the required elevations.

Manitoba Water Stewardship
Red River Valley Designated Flood Area Permits
Attention: Dev. Review Engineer
Box 11, 200 Saulteaux Crescent
Winnipeg MB R3J 3W3

Fax Number: (204) 945-7419

GUIDELINES

1. Where a structure has been constructed according to Schedule A, B, E, F or G the level of the surrounding fill at the building line should not slope more than 0.15m for a horizontal distance of 4.6m from the building line. The following side slopes are then recommended:

Height of Fill	Minimum Side Slopes (S.S.)
0.3m to 1.5m	3:1
1.5m to 3.0m	4:1
3.0m or greater	5:1

2. Where a dyke has been constructed according to Schedule D the following side slopes are recommended:

Dyke Height (H)	Minimum Side Slopes (S.S.)
0.3m to 1.5m	3:1
1.5m to 3.0m	4:1
3.0m or greater	5:1

3. The electrical distribution panel in the structure should be located above the main floor unless an existing panel located below the main floor is being replaced or added to in the same location.

4. The potable water shut-off valve should be located above the main floor.

5. Where the structure has floor space below the applicable flood protection level, the drain between the structure and any septic or holding tank or a common sanitary sewer line should have a backwater valve.

6. The weeping tiles should drain to a covered sump pit equipped with a pump and discharge piping to grade.

7. Drilled wells should be located on or within the floodproofing works or should be sealed at the top.

8. A structure that is raised on piles should be anchored against flotation.

9. Any immovable equipment or material or hazardous material stored in a detached garage should be stored 1.0 m above the floor level.

10. Storage tanks for fuel oil, gasoline or any other liquid or solid should be anchored to prevent flotation and have the vent and filler pipes extended above the applicable flood protection level.

REQUIRED ELEVATIONS FOR CONSTRUCTION IN THE RED RIVER VALLEY DESIGNATED FLOOD AREA

Manitoba Regulation 59/2002, a regulation under *The Water Resources Administration Act*, requires that any new buildings or structures within the Red River Valley Designated Flood Area be protected against flooding of the magnitude experienced in 1997. Flood protection is to be achieved by raising the building site or dyking to the 1997 level plus a freeboard allowance determined by the Minister. The following criteria are minimum standards.

House with a basement - the main floor equal to the 1997 level plus 3.0 feet. The fill elevation (grade) equal to the 1997 level plus 2.0 feet.

House without a basement - the main floor equal to the 1997 level plus 2.0 feet. The fill at 1997 plus 1.0 foot.

House raised on posts or piles - the main floor equal to the 1997 level plus 5.0 feet. The finished grade at the foundation not more than 3.5 feet below the 1997 level.

Ring dykes - 1997 level plus 2.0 feet.

Livestock Barns - the floor equal to the 1997 level plus 2.0 feet. The fill 1997 plus 1.0 foot.

Attached garages, granaries, farm machinery sheds, and any other buildings used for the storage of agricultural produce, workshops and sheds used for the storage of immovable equipment or material or hazardous material - the floor elevation equal to the 1997 level plus 1.0 foot. The fill at the 1997 level.

Detached garages - Floor may be up to 3.0 feet below the 1997 level, but the structure should be waterproof up to the 1997 level.

Water Stewardship
June 8, 2004