



BELGIAN NATIONAL AND REGIONAL LEGISLATION FOR GEOTHERMAL PROJECTS

**Legislation for geothermal well drilling,
equipment and production**

Walloon region - Legislation

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Introduction

Well drilling project for a geothermal purpose
requires a

UNIQUE PERMIT

Unique permit = environmental permit +
construction permit

Legal basis

Environmental permit

Decree of 11 March 1999 (MB : 8 June 1999).

Orders of the Walloon Government of 4 July 2002 :

- classification of installations and activities,
- procedures and several measures for execution,
- general conditions.

Construction permit

CWATUP : article 84, §1st, 1°

Classification

**Order of the Walloon Government of 4 July 2002
fixing the types of projects requiring an impact
study and the installations and activities requiring
a permit - Annex I.**

**45.12.01. : well drilling for nuclear waste storage or
for geothermal purposes**

45.12.02. : well drilling for water production purpose

Class 2

Classification

41.00.03.02. : installation(s) for water production and/or underground water treatment, non-drinkable and not used for human consumption, production capability > 10 m³/day and $> 3\,000$ m³/year, and $< \text{or } \leq 10\,000\,000$ m³/year : **class 2**

41.00.04. : installations for underground water artificial recharge or such attempts: **class 1 (EIE)**

Procedure

Order of the Walloon Government of 4 July 2002 related to the procedure and application of the 11 March 1999 Decree related to the environmental permit.

Procedure : submission submission of permit request to the local administration.

• **Water well – 2 steps permit** :

1) Limited time permit for the duration of well drilling, casing and pumping tests : annex I (general), XVIII (drilling) and III (water catchment) ».

2) Water catchment permit : annex I and III .

Procedure

Order of the Walloon Government of 4 July 2002 related to the procedure and application of the 11 March 1999 Decree related to the environmental permit.

Procedure :

- **Re-injection well – permit related to the production well permit : annex I, XVIII and VIII (injection).**
- **Well for installation of geothermal equipment : annex I and XVIII (drilling).**



Sectorial conditions

Well drilling and equipment for underground water production purpose - 45.12.02.

An Order project of the Walloon Government defining sectorial conditions was written by the Groundwater Direction in 2009. Promulgation expected in 2010.

Work basis :

French norm NF X10-999 April 2007 – Water wells and geothermal drilling.

Sectorial conditions

Well drilling and equipment for vertical geothermal installations - 45.12.01.

An Order project of the wallon Government defining sectorial conditions should be written by the Groundwater Direction in 2010. Promulgation expected in 2011.

Current work basis :

- the project of the sectorial conditions related to the well drilling and equipment for groundwater production purpose;
- the french norm « Geothermy »; publication is expected for June 2010.

Sectorial conditions

Installation(s) for water production and/or groundwater treatment - 41.00.02. and 41.00.03.

Orders of the walloon Government of 12 February 2009 defining :

- sectorial conditions (class 2) - MB 25/3/09
- integral conditions (class 3) - MB 12/3/09.

Installations for the artificial recharge or such attempts of groundwater :

No sectorial conditions.



Drillers certification

Under study by the Groundwater Direction

Objective: to limit the access of drilling activity to qualified companies, which should be constrained to use appropriate equipment and should be concerned by the respect of environment preservation rules.

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Internet links

Environmental portal SPW

<http://environnement.wallonie.be>

Environmental permit :

<http://environnement.wallonie.be/aerw/pe/index.htm>

<http://environnement.wallonie.be/legis/index.htm>

http://formulaire.wallonie.be/p004360_122.jsp

CWATUP (unofficial coordination) :

<http://mrw.wallonie.be/DGATLP/DGATLP/pages/DGATLP/Dwnld/CWATUP.pdf>