

QUESTIONNAIRE

on mineral, medicinal (curative, healing), thermal and thermo-mineral waters as well as brines in European countries

*The team of PGI-NRI will be very grateful if you can please fill in this questionnaire with respect to the situation in your country and return it within 1-2 weeks by e-mail to Maciej Klonowski at: maciej.klonowski@pgi.gov.pl
Fill in the blue cells only please*

This reply was prepared by:

Institution (full name, acronym) :	
Country:	
Person in charge (name, surname) :	
e-mail:	
Date (dd.mm.yyyy) :	

Instructions:

This questionnaire **refers exclusively** to the selected types of natural groundwaters, including: mineral, medicinal, curative, healing, thermal and thermo-mineral waters as well as brines and other similar if recognized **in your country**.

This questionnaire **does not refer** to the surface waters at all and to the groundwaters such, as: ordinary fresh (sweet) waters, spring waters and table waters, groundwaters mineralised in an artificial way, groundwaters resulting from dewatering of mines, quarries, etc.

Please fill in only the blue cells. If the question is not valid for your country or there is no reply leave the cell empty.

Disclaimer:

The Polish Geological Institute - National Research Institute (PGI-NRI) runs the national project on mineral waters (funded from the national means). It concerns the relevant issues in Poland, however it also addresses some aspects of the EU legal framework as well as the conditions and solutions adopted in the diverse European countries. The questionnaire is a part of this project and as such **it is an intellectual property of PGI-NRI**.

Filling the questionnaire in is fully on a voluntary basis. No raw data will be used directly in any outcomes of the project. Only the processed results of the replies to this questionnaire will be included in the report of the mentioned project **with respect to the intellectual property rights of the respondent**.

Attention!
All questions below refer to the groundwater types/resources listed in the points 1.1-1.6
and situation in your country
Fill in the blue cells only

1.	Which types of the groundwaters listed under the points 1.1-1.6 are distinguished by the legal acts in your country?	Drop-down list	Comments
1.1	mineral		
1.2	medicinal (curative, healing)		
1.3	thermal		
1.4	thermo-mineral		
1.5	brines		
1.6	other (please specify below)		

2.	Legal and administrative aspects	Drop-down list	Drop-down list	Drop-down list	Drop-down list	Drop-down list	Drop-down list	Drop-down list	Drop-down list	Drop-down list	Drop-down list
2.1	Which thematic groups of the legal acts are binding for which of the groundwater types?	mining	geology	water and groundwater	mineral resources	energy	nature protection	spas and health resorts	human health	tourism and recreation	other please specify below
2.1.1	mineral										
2.1.2	medicinal (curative, healing)										
2.1.3	thermal										
2.1.4	thermo-mineral										
2.1.5	brines										
2.1.6	other (please specify below)										

2.2	Are the activities listed below legally regulated? If yes, is any license/concession for these activities legally required and is its duration legally limited?	Drop-down list	Drop-down list	Drop-down list	Comments
2.2.1	prospection (investigation)	activity legally regulated	license/concession legally required	duration of license/concession legally limited	
2.2.2	exploitation				
2.2.3	other (please specify below)				

		Drop-down list	Comments
2.3	How many institutions are involved in license/concession assessing and granting? <i>Give an exact or estimated number in comments (even rough estimation will do).</i>		
2.4	Is the "one-stop shop" procedure (1 dedicated institution) available for assessing and granting the licence/concession?		
2.5	Is it possible to apply for the licence/concession exclusively online or in any other electronic way?		
2.6	Under usual conditions (uncomplicated case), how long does the application procedure take? <i>Give an exact or estimated number of weeks in comments (even rough estimation will do).</i>		
2.7	Is the length of the application procedure limited and legally regulated?		
2.8	Is geological documentation for the results of prospection legally required?		
2.9	Is geological documentation for the results of exploitation legally required?		
2.10	Is it legally required to submit the geological documentation for any formal approval?		
2.11	What is the role of your institution with respect to the legal and administrative procedures?		
2.11.1	providing scientific background and professional expertise		
2.11.2	advising the decision makers in charge for legislation		
2.11.3	creating the legal regulations and administrative procedures		
2.11.4	reviewing and assessing applications for license/concession		
2.11.5	granting the licenses/concessions		
2.11.6	supervising the entities conducting geological prospection, investigation and documentation works		
2.11.7	performing geological prospection, investigations, exploitation and documentation works		
2.11.8	other (specify in comments)		

3.	Exploitation, management and protection of resources		
3.1	What are the major sources of threats to quantity and quality of groundwater types occurring in your country?	Drop-down list	Comments
3.1.1	agriculture		
3.1.2	industry		
3.1.3	urban		
3.1.4	overexploitation		
3.1.5	geogenic		
3.1.6	other (please specify below)		
		Drop-down list	Comments
3.2	Is the public awareness with respect to the needs for management and protection of resources of these groundwater types sufficient?		
3.3	Are there any binding legal regulations and/or administrative procedures for assessment of the groundwater resources?		
3.4	Are there any binding legal regulations and/or administrative procedures for delineation of the protection zones of the groundwater resources, including spas and health resorts?		
3.5	Is any geoscientific modelling legally required for the assessment and protection of the groundwater resources?		
3.6	Are there any management and/or protection policies and action plans of the groundwater resources developed on the national level?		
3.7	Are the management and protection measures of the groundwater resources in your country efficient enough?		
3.8	Is decommissioning of the redundant boreholes used for exploitation legally required?		
3.9	How has been the market situation with respect to the individual groundwater types over the recent years (for example for a recent decade - until present) in general in your country?	Drop-down list	Comments
3.9.1	mineral		
3.9.2	medicinal (curative, healing)		
3.9.3	thermal		
3.9.4	thermo-mineral		
3.9.5	brines		
3.9.6	other (please specify below)		
3.10	What is the role of your institution with respect to exploitation, management and protection of resources?	Drop-down list	Comments
3.10.1	advising and providing scientific background and professional expertise to the stakeholders including investors		
3.10.2	reviewing and developing the methodology, procedures and regulations		
3.10.3	conducting exploitation, management and protection of resources		
3.10.4	supervising the entities conducting exploitation, management and protection of resources		
3.10.5	archiving the results of these activities		
3.10.6	other (specify below)		

4.	Monitoring	Drop-down list	Comments	
4.1	Are the groundwater types described in this questionnaire monitored in your country?			
4.2	Is monitoring well established and running for several years?			
4.3	Is it a unique monitoring network for the entire country?			
4.4	If not, are there any plans to develop and implement the network as such?			
4.5	Is monitoring specified by the exploitation licence/concession?			
4.6	Are the monitoring procedures determined by the national legal regulations?			
4.7	Are there any best practices and/or recommendations for monitoring available?			
4.8	Could you please provide the total number of monitoring points in your country. <i>Give an exact or estimated number in comments (even rough estimation will do).</i>			
4.9	Which parameters and how often are monitored?	Drop-down list	How often is it monitored? If other, specify in comments	Comments
		Parameter		
4.9.1	general conditions of installation (borehole, water intake, etc.)			
4.9.2	optical (video) inspection inside the installation			
4.9.3	groundwater table depth			
4.9.4	volume of extracted water			
4.9.5	volume of infiltrated water			
4.9.6	spring discharge			
4.9.7	temperature			
4.9.8	pH			
4.9.9	Eh			
4.9.10	electroconductivity			
4.9.11	major ions			
4.9.12	full chemical analysis			
4.9.13	dissolved gases (specify in comments)			
4.9.14	organic constituents (specify in comments)			
4.9.15	other (specify below)			
4.10	Are the monitoring results publically available online, for example as:	Drop-down list	Comments	
4.10.1	metadata			
4.10.2	raw data			
4.10.3	processed data			
4.10.4	geoportal			
4.10.5	other (specify in comments)			
4.11	What is the role of your institution (geological survey) with respect to monitoring?	Drop-down list	Comments	
4.11.1	advising and providing scientific background and professional expertise to the stakeholders			
4.11.2	reviewing and developing the methodology, procedures and regulations			
4.11.3	performing monitoring and developing the network			
4.11.4	supervising the entities conducting monitoring			
4.11.5	archiving the monitoring results			
4.11.6	other (specify below)			

5.	References
	Please list below the main references (publications, websites, etc.) referring to the issues covered by this questionnaire.

1.	Definition of mineral waters
Please provide below a concise definition used in your country and its character: legal, scientific, etc. If necessary specify the physiochemical parameters, boundary and threshold values (min/max concentration), etc.	
2.	Definition of medicinal (curative, healing) waters
Please provide below a concise definition used in your country and its character: legal, scientific, etc. If necessary specify the physiochemical parameters, boundary and threshold values (min/max concentration), etc.	
3.	Definition of thermal waters
Please provide below a concise definition used in your country and its character: legal, scientific, etc. If necessary specify the physiochemical parameters, boundary and threshold values (min/max concentration), etc.	
4.	Definition of thermo-mineral waters
Please provide below a concise definition used in your country and its character: legal, scientific, etc. If necessary specify the physiochemical parameters, boundary and threshold values (min/max concentration), etc.	
5.	Definition of brines
Please provide below a concise definition used in your country and its character: legal, scientific, etc. If necessary specify the physiochemical parameters, boundary and threshold values (min/max concentration), etc.	
6.	Definition of any other types of water if identified for your country
Please provide below a concise definition used in your country and its character: legal, scientific, etc. If necessary specify the physiochemical parameters, boundary and threshold values (min/max concentration), etc.	