

SD: 1. Ensure everyone's well being

PfA: 1.5 Contribute to cooperation and peace

TSG: 1.5.2 Increase the number of new agreements and revise/enhance the quality of existing agreements related to transboundary surface and/or groundwater

**QUESTIONNAIRE ON TRANSBOUNDARY AQUIFER MANAGEMENT**

*The aim of this survey is to identify good practices in transboundary aquifer systems management and governance and to report successful case studies and innovative solutions to the 6th World Water Forum, Marseille, France, March 2012. It should take 10-15 minutes to complete the following questionnaire.*

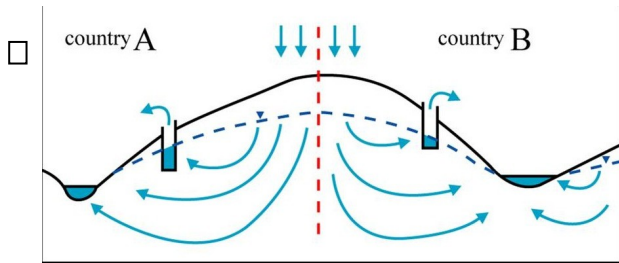
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**1. NAME OF THE TRANSBOUNDARY AQUIFER, LOCATION & COUNTRIES**

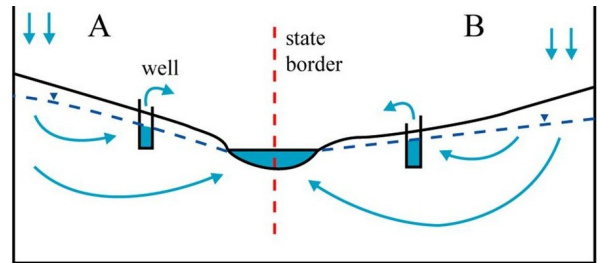
Please give the name(s) or other identification property of the shared aquifer, its approximate location (province, department) and countries sharing it.

**2. AQUIFER CHARACTERISTICS**

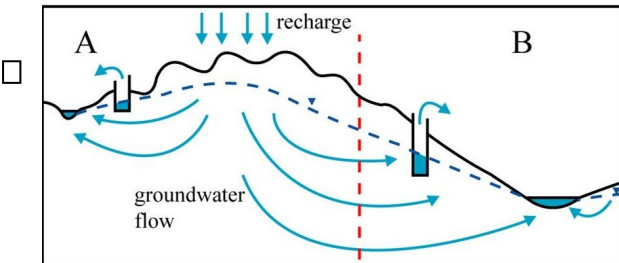
Please indicate which of the four simplified pictures below most closely characterises your transboundary aquifer.



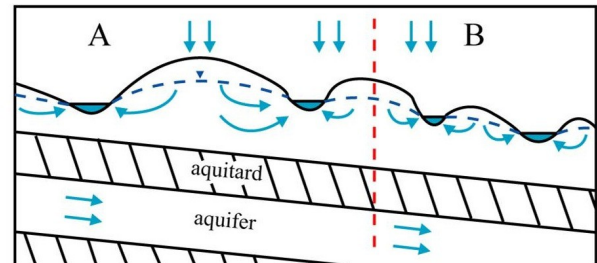
(1) state border follows surface water catchment and groundwater divide, little transboundary groundwater flow.



(3) state border follows major river or lake, alluvial aquifer connected to river, little transboundary flow.



(2) Surface water and groundwater divides separate from state border, recharge in one country, discharge in adjacent.



(4) Large deep aquifer, recharged far from border, not connected to local surface water and groundwater.

**3. USES AND FUNCTIONS OF TRANSBOUNDARY GROUNDWATERS**

Does the groundwater in this transboundary aquifer have direct uses and/or other functions?

No

or

Yes

If Yes:

**Uses:**

Drinking water  Irrigation  Industry  Mining  Thermal spa  Livestock  Other:

**Other functions:**

Agriculture support  Land subsidence  Baseflow and springs  Ecosystems  Other:

**4. PROBLEMS IN TRANSBOUNDARY GROUNDWATERS**

**Quantity Problems**

Reduced yield  Reduced springflow  Increased pumping  Land subsidence  Other:

**Quality Problems**

Pumping polluted water  Pathogens  Sea water intrusion  Groundwater salinisation  Nitrification   
Heavy metals  Hydrocarbons  Pesticides  Industrial compounds  Other:

**Transboundary Impacts**

- a) Do you observe any decline of groundwater levels (or piezometric levels) caused or probably caused by activities in neighbouring countries? Yes  No
- b) Do you observe any groundwater pollution caused or probably caused by activities in neighbouring countries? Yes  No
- c) Are problems for sharing information and data? Yes  No
- d) Are regulatory disputes between neighbouring countries? Yes  No

**5. TRANSBOUNDARY AQUIFER RESOURCES MANAGEMENT**

**Commissions**

Local  Regional  National  Transnational  Other:

**Institutions**

Local  Regional  National  Transnational  Other:

**Agreements**

Bi-lateral  Regional  Transnational Directives  International treaties  Other:

**Management Measures**

Licencing  Pricing  Energy supply  Subsidies/Credits  Monitoring  Increase efficiency   
Public awareness  Protection zones  Vulnerability mapping  Agricultural practices   
Integrated basin management  Wastewater reuse  Artificial recharge  Wastewater treatment   
Other:

**Innovative measures/Case studies**

Please mention below in few lines any innovative practice

**6. NAME AND CONTACT OF PERSON(S) COMPLETING THIS FORM:**

Name ..... Institution .....  
Address.....  
Tel.....Fax.....E-mail.....