



Rural Water and Food Security
An action supported by the European Union



PI RURAL Dialogue Seminar

BEST PRACTICES IN GROUNDWATER QUALITY MANAGEMENT

2-DAY PI RURAL WEBINAR

PROPOSED DATES: TUESDAY 26 AND THURSDAY 28 OCTOBER

Time: 09:00 – 12:00 CET / 15:00 – 18:00 CNT

The webinar will be held by Zoom and have simultaneous translation into Chinese and English.

Day 1 - Groundwater Management

Chair: Mr Bjørn Kaare Jensen, Geological Survey of Denmark and Greenland

1 Opening and Logistics (09:00 – 09:20)

Welcome Dr Jin Hai, MWR INTEC

Opening Mr Stéphane Bauguil, Delegation of the European Union to China (To be confirmed)

Logistics Mr Bjørn Kaare Jensen, Geological Survey of Denmark and Greenland

2 Break (09:20 – 09:30)

3 Status of Groundwater Quality (09:30 – 10:40)

Global Perspectives of Assessment of Groundwater Quality: Importance, Methods and Potential.
Dr. Karen Grothe Villholth, International Water Management Institute on behalf of Friends of Groundwater

Status of groundwater quality in Western China. Professor LI Peiyue, School of Water and Environment, Chang'an University

Groundwater quality in the European Union. Mr Peter Kristensen, European Environment Agency (Emeritus)

Emerging groundwater contaminants in Europe. Dr. Sarah Y. Bunting, British Geological Survey (to be confirmed)

4 Break (10:40 – 10:50)

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China Resources Management

5 Groundwater quality monitoring and legislation (10:50 – 12:00)

China's Groundwater Monitoring Network. Dr. Li Shengpin, Ministry of Natural Resources

Groundwater quality monitoring in the EU. Dr. Mirjam Orvomaa, Finnish Environment Institute

Groundwater quality standards in China. Dr. WEN Dongguang, China Geological Survey

Groundwater quality standards supporting the objectives of the EU Groundwater Directive. Ms Lærke Thorling, GEUS

Closure. Chairs

Day 2: Groundwater Protection and Use

Chair: Dr Jin Hai, MWR INTEC

1 Protection of Groundwater Quality (09:00 – 09:45)

Program and financing of protection of the groundwater catchment for Aarhus Water Supply. Director Lars Schrøder, Aarhus Water Supply

Impact of irrigation on groundwater quality. Dr. Chen Jie, School of Water and Environment, Chang'an University

Pesticide Leaching Assessment Program for risk assessment of pesticides used in agriculture. Annette Rosenbom, Geological Survey of Denmark and Greenland

2 Break (09:45 – 09:55)

3 Mitigation of diffuse groundwater pollution (09:55 – 10:40)

Mitigation of diffuse agricultural pollution by livestock manure management. Professor LU Haifeng, China Agricultural University

Managed Aquifer Recharge - Degradation of sulfamethoxazole revealed by simulation of a push-pull experiment in a shallow aquifer of North China Plain. Dr. Ma Meng, Institute of Water Resources and Hydropower Research

Impact of saltwater intrusion caused by sea level rise. Dr. DAI Yunfeng, Nanjing Hydraulic Research Institute

4 Break (10:40 – 10:50)

5 Remediation and treatment of polluted groundwater (10:50 – 11:50)

In-situ remediation of groundwater pollution by permeable reactive barriers. Professor Li Fulin, Water Research Institute of Shandong Province

Removal of nitrate and pesticides in groundwater-based domestic water supply schemes. Professor Hans-Jørgen Albrechtsen, Technical University of Denmark

Global Threat of Groundwater Arsenic: A Silent Public Health Crisis. Dr. ZHENG Yan, Southern University of Science and Technology (SUSTech)

Removal of arsenic in groundwater for drinking water supply. Dr. Doris van Halem, Delft University of Technology, Netherlands

6 Closure (11:50 – 12:00)

Take home lessons for the EU. Mr. Bjørn Kaare Jensen, PI RURAL Manager

Take home lessons for China. Dr. Jin Hai, Director, MWR International Economic and Technical Cooperation Exchange Centre