

## 2003- 2006 AQUAREC

### INTEGRATED CONCEPTS FOR REUSE OF UPGRADED WASTEWATER EC-EVK-2001-00213 - the EU RTD project

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#### End-users:

**The National Foundation of Water Resources Management (NFGW – Katowice)**

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No	Full Organisation name	City / Country
1	RWTH Aachen Chemical Engineering Department	Aachen, Germany
2	RWTH Aachen, University Hospital Environmental Medicine and Hygiene Dept.	Aachen, Germany
3	Technical University Delft	Delft, Netherlands
4	Cranfield University – School of Water Sciences	Cranfield, UK
5	Ben Gurion University	Beer-Sheva, Israel
6	Mekorot	Tel-Aviv, Israel
7	Chemical Process Engineering Research Institute	Thessaloniki, Greece
8	Exeter University – Environmental engineering	Exeter, UK
9	GEONARDO, research-oriented environmental consulting	Budapest, Hungary
10	Brno University of Technology, Faculty of Civil Engineering	Brno, Czech Republic
11	Aquafin NV – Water Body of Flanders	Aarstelaar, Belgium
12	University of Valencia, Institute of International Economics	Valencia, Spain
13	University of Wollongong	Wollongong, Australia
14	S.C. APA NOVA BUCURESTI S.A.	Bucharest, Romania
15	University of Łódź	Łódź, Poland
16	Fundacion Gaiker	Zamudio, Spain
17	University of Barcelona	Barcelona, Spain

#### Problem Statement

Wastewater reuse presents a feasible solution to the growing pressure on Europe's water resources. However, wastewater reuse implementation faces obstacles that include insufficient public acceptance, technical, economic and hygienic risks and further uncertainties caused by a lack of awareness, accepted standards, guidelines and uniform European legislation. So far, there are no European regulations on water reuse and further development is slowed by lack of standards in water quality, treatment and distribution systems. While guidelines for agricultural water reuse have been defined by the World Health Organisation, and by different states such as the USA and Saudi Arabia, a uniform solution for Europe is lacking. European standards have to take a complex water policy and management framework into account and have to balance the protection of water resources, economic and regional interests and consumer-related safety standards.

#### Scientific Objectives and Approach

The general objective is to provide knowledge for a rational wastewater reuse strategy as a major component of sustainable water management practices. The approach will be interdisciplinary and broad, addressing issues of strategy, management and technology. The project aims to define criteria to assess the appropriateness of wastewater reuse concepts in particular cases and to identify the potential role of wastewater reuse in European water management. The project will provide guidance for end-users facing decisions in the planning and implementation of wastewater reuse schemes as well as for public institutions on various levels.

By delivering a scientifically sound basis for regulative measures, the project attempts to bridge the gap between research and water policy. Research activities in fields as broad as geography, psychology, marketing, chemical engineering and public hygiene will be integrated and focused on water reuse. The project is organised on three levels, strategy, management and technology.