

LIFE08 ENV/CY/000460

# « WATER-Strenghtening the Scientific Foundation of Water Quality Programs »

**PROJECT LOCATION:** CYPRUS

**BUDGET INFO:** **Total amount:** 829.775 €

**% EC Co-funding:** 49.76%

**DURATION:** 01/02/2010- 31/07/2013

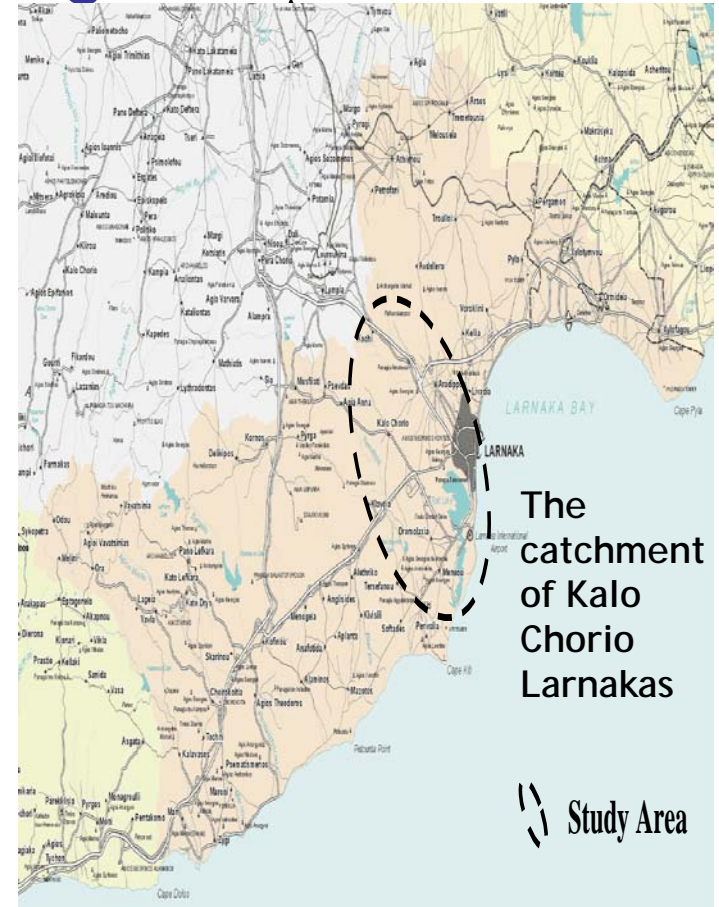
**PROJECT'S IMPLEMENTORS:**

**Coordinating Beneficiary:**

(1) Department of Environment,  
Ministry of Agriculture, Natural Resources  
and Environment

**Associated Beneficiaries:**

(2) ATLANTIS Consulting Cyprus Ltd  
(3) Frederick University





**BACKGROUND:** *Water systems in Cyprus are facing increasing pressures both from human induced activity and natural weather/hydrological changes. In recent years water availability has been the most pressing issue due to the ongoing drought. A significant portion of aquifers are facing depletion or water quality problems, with saline intrusion being a major concern.*

**OVERALL GOAL:** *Strengthening the scientific foundation of water management programmes, including criteria development for pollutants of high potential impact on environmental quality and biodiversity, as well as for the preservation of good chemical and ecological status of water bodies.*

**OBJECTIVES:**

- *A strong scientific basis for the construction, communication and evaluation of water management plans and measures.*
- *Helping to establish Policy, Scientific and Technical integration between programmes, for the development of water quality standards, criteria and regulations relevant to pollution prevention such as the issuance of emission permits and implementation of EIA's.*
- *The establishment and implementation of integrated simulation models (BASINS4, HSPF, Aquatox, etc) in conjunction with ARCVIEW/ ARCGIS in terms of a dynamic water budget (climate driven hydrological cycle, anthropogenic demand, allocations) resulting in criteria of water availability and quality.*
- *The demonstration of the proposed Tools and Methods in order to facilitate their widest possible future application.*

**MAIN EU POLICY(IES) TARGETED:** *Articles 11&13 of Water Framework Directive (WFD-2000/60/EC) and PRTR Regulation 166/2006/EC*

**MAIN ACTIVITIES:**

- 1. Building Integrated Water Quality Modeling and Scenario Analysis Capacities.*
- 2. Model implementation at Kalo Chorio.*
- 3. River basin function, values analysis and water quality criteria determination*
- 4. PRTR Data.*
- 5. TMDL Development and pollutant allocations for selected pollutants applicable to the pilot catchment area.*
- 6. Dissemination of project information and results (conferences/seminars, training workshops, press releases, articles etc).*

**EXPECTED RESULTS:**

- Capacity development water quality management planning via maintaining the water body functions in order to ensure good ecological status.*
- A tool for water management decisions through scientifically verified maximum allowed pollutant load to receiving water bodies.*
- Well verified and transparent scientific process for facilitating pollutant allocations.*
- Dynamic water quality management system for monitoring and updating the water quality plans and measures.*
- Water quality management plan of Larnaka's Salt Lakes (Great ecological significance)*