

Fact Sheet Demo Site Ecuador



THE POWER OF EARTHWORMS

INNOQUA is a four-year EU-funded Horizon 2020 project. Bringing expertise from multiple disciplines, the 20 project partners are seeking to demonstrate a novel, modular system for wastewater treatment based on the purifying capacity of earthworms, zooplankton and microalgae, operating under real conditions.

Due to its modular configuration, the INNOQUA system can address multiple aspects of wastewater treatment and water re-use in water stressed communities, rapidly expanding cities and industries – both in developed and developing countries. The decentralised approach helps to reduce pressure on inadequate wastewater networks while reducing the water and energy demands of typical centralised wastewater treatments – supporting sustainable development. INNOQUA has installed pilot and demonstration sites in 11 countries (France, Ireland, Italy, Romania, Scotland, Spain, Turkey, Ecuador, Peru, India and Tanzania) to demonstrate the long-term viability of modular and locally sustainable solutions under real conditions. The modules include lumbrifilter, daphnia filter, bio-solar purification and UV lamp. The sites provide a robust platform for scientific research and act as a focus for local training and dissemination activities.

KEEP IN TOUCH - innoqua-project.eu







This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 689817

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SETTLEMENT TANK

LUMBRIFILTER

DAPHNIAFILTER



Installation of the INNOQUA system

DEMO SITE QUITO

Quito is the capital of Ecuador, located on the equator in the Andean region at an altitude of about 2800 m. It has a population of 2.6 million people. Whereas the city is well covered by the municipal sewage network, more than 97% of the wastewater does not receive any treatment and is discharged, together with rainwater, into local rivers.

BENEFICIARIES: The INNOQUA system treats the wastewater from a multi-family house located in the Miraflores district in the centre of the city. This building hosts ten persons in three apartments and an office.

DESIGN CAPACITY: 2 m³/day

SOURCE OF WASTEWATER: Toilets, kitchens, bathrooms

SPECIFIC SCIENTIFIC RESEARCH OBJECTIVES:

Testing the applicability of a nature-based technology for a residential building in a densely populated urban environment. CONFIGURATION: In Quito the INNOQUA system consists of a lumbrifilter and a daphniafilter installed on the outflow of a settlement tank.

LOCATION:

Armero OE7-261 y El Oro Quito - 170521, Ecuador

To arrange a visit to this site, please contact the INNOQUA partner whose details are provided below.



Office near the INNOQUA system

This demo site is run by the INNOQUA partner





WEBSITE:

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