Management of Agricultural Water Quality Issues

Water Research Centre

We have the capability to investigate agricultural practices leading to water quality issues and then identify cost-effective land and drainage management solutions to mitigate pollution of the environment.

On-ground UNSW investigation into groundwater quality and hydrology on a sugar cane farm.

Competitive advantage

- Critical mass of expertise in soil and water chemistry, hydrology and microbiology.
- Full in-house suite of modern instrumentation to measure (in)organic contaminants and pathogenic microorganisms.

Recent research projects

- Reactive oxygen species production on oxygenation of subsurface sediments. Australian Research Council (2017-2019).
- Acid sulfate soil scoping study of the Mooball catchment. Tweed Shire Council (2014).
- New perspectives on iron oxide transformations in oxic and anoxic aqueous environments: implications for iron bioavailability and contaminant mobility. Australian Research Council (2012-2014).
- Exploiting natural processes to effectively remediate acidified coastal environments. Australian Research Council (2011-2014).

Facilities and infrastructure

- UNSW Water Research Centre
- UNSW Water Research Laboratory

Remediation of a problematic agricultural drainage area based on UNSW investigations and recommendations.

Our experts

- Dr. Richard Collins (soil and water chemistry)
- Scientia Professor T. David Waite (geochemistry)

More information

Dr Richard Collins

Scientia Fellow, UNSW Water Research Centre

T: +61 (0) 2 9385 5214

E: richard.collins@unsw.edu.au

新南威尔士大学火炬创新园区
Torch Innovation Precinct at UNSW