



# ACLCA SA PRESENTATION

## TOPIC: PETROLEUM HYDROCARBON BEHAVIOUR IN CONFINED AQUIFER AND VAPOUR AT THE FORMER MITSUBISHI PLANT, TONSLEY, SA

Presented by: Alex Sereda and Jean Meaklim (Greencap)

**Time:** 12:00 pm for 12:30pm start – until 1:30pm approx.  
**Date:** Thursday 14 February 2019  
**Where:** Pilgrim Hall (Pilgrim Uniting Church) – 12 Flinders Street Adelaide

### Synopsis:

Historical leaks from USTs created some soil contamination at the study area. High Resolution Vertical Profiling (HRVP) was used to delineate the soil impacts. The uppermost aquifer underlying the study area was found to be confined and only unsaturated zone above the upper confining layer was impacted. Apart from a few wells which were likely screened across the upper confining layer within the source area only trace concentration of hydrocarbons were reported in downgradient wells. Subsequent soil vapour investigations showed more pronounced impacts extending over 200 metres from the source area.

Lesson learned that the mechanism for contaminant impact on confined aquifers differs significantly to unconfined (water table) aquifers.

### Presenters Bios:

**Alex** is a hydrogeologist with 34 years' experience in Australia and Europe. Alex's experience related to groundwater contamination studies includes investigations/assessments, hydrogeological conceptualisation, predictive analytical/numerical fate and transport modelling, nature and extents analysis, natural biodegradation and natural attenuation monitoring (MNA), risk assessments as well as groundwater exploration, dewatering and management of groundwater resources.

**Jean** has 30 years' experience in government, industry and consulting as a technical specialist in assessment and management of contaminated land & water, industrial and agricultural chemicals and waste. She has expertise in chemistry, toxicology, environmental and human health risk assessment, occupational hygiene and environmental & public health policy & regulation.

## REGISTRATION

Registration for all ACLCA SA events is essential at:

<http://www.aclca.org.au/sa-events>

This workshop is free and open to attend for members and invited guests only.

Join us for a light lunch from 12:00 to 12.30 pm – session will commence at 12.30pm sharp!

RSVP: Monday 11 February.

*Are you a member of a professional association? This course is likely to be valid for CPD points (or similar).*

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