AGRICULTURE AND EFFLUENT IRRIGATION

- 2003 Hydrogeological Assessment for Wastewater disposal, 'Greengrove' Dubbo. Hydrogeological review, geophysics, drilling program.
- Hydrogeological assessment of wastewater treatment and disposal, Violet Town, VIC, for Piper & Associates.
- **'Greengrove' Effluent Irrigation Study, Dubbo, NSW.** Assessment of groundwater and surface water vulnerability in relation to "Greengrove" and a number of other properties proposed for use for effluent irrigation for Hassall and Associates and Dubbo City Council.
- 1997 Free-Stall Dairy, Gooloogong, NSW. Assessment of groundwater impacts of effluent irrigation on Lachlan River terraces, assessment and liner design for effluent treatment ponds, location of groundwater supply borehole for dairy and irrigation.
- **'Bungaribee' Sewage Disposal, Dubbo, NSW.** Investigation of groundwater conditions and assessment of impact of a proposed effluent irrigation operation including drilling, geophysical logging, electromagnetic and resistivity surveys for the NSW Public Works Department and Dubbo City Council.

Investigation of Leakage from Effluent Holding Ponds, Dubbo, NSW. Resistivity and electromagnetic surveys - for Dubbo City Council.

Effluent Irrigation, Yarrawonga and Bundalong, Victoria. Assessment of groundwater conditions and hydrogeological impact of irrigation with sewage effluent, including electromagnetic (EM34) and resistivity surveys - for Piper Associates.

Effluent Irrigation, Bannockburn, Victoria. Assessment of groundwater conditions at proposed effluent irrigation site, including electromagnetic survey - for Barwon Water.

Off-stream Water Storage and Irrigation, Bourke, NSW. Investigation of groundwater conditions and potential impacts, including an extensive drilling program, electromagnetic (EM34 and EM31) and resistivity surveys, and groundwater flow modelling - for Clyde Agriculture Ltd.

Beef Cattle Feedlot, Grenfell, NSW. Assessment of the impact of a proposed beef cattle feedlot on groundwater resources - for P. D. Mulligan (Holdings) Pty Ltd.

Minimbah Abattoir, Hunter Valley, NSW. Assessment of the impact of effluent irrigation from a proposed abattoir on groundwater conditions - for Detike Pty Ltd.

Parkville Piggery, Hunter Valley, NSW. Review of impacts of proposed expansion of the Parkville Piggery on the groundwater resources of the Kingdon Ponds alluvial aquifer - for Scone-Parkville Environmental Watch.

Assessment of Impact of Intensive Piggery Developments on Groundwater, Young, NSW. Hydrogeological studies for Statutory EIS - for a confidential client.

Assessment of Impact of Beef Cattle Feedlot Development on Groundwater, Forbes, NSW. Hydrogeological studies, including field investigation and numerical groundwater modelling for EIS, design of a contaminant plume capture system for EPA and DLWC compliance - for a confidential client.

Assessment of Impact of Abattoir and Wool Scour Development on Groundwater, Dubbo, NSW. Hydrogeological studies for Statutory EIS, EPA and DWR compliance, including an extensive drilling program and establishment of a network of monitoring piezometers and lysimeters - for a confidential client.

1991 Wastewater Disposal, Hartley Valley, NSW. Investigation of ground conditions for onsite disposal of wastewater on 47 blocks of a proposed subdivision. Specification of

wastewater treatment system to meet stringent discharge requirements - for John Bowden and Co.

Wastewater Disposal, Springwood, NSW. Appraisal of site conditions for disposal of treated effluent from a macrophyte wastewater treatment system at Waratah retirement village, including representation at a successful appeal in the Land and Environment Court - for Frank Hudson.

Peechelba Feedlot, Wangaratta, VIC. Assessment of groundwater pollution from waste storage lagoons on a beef cattle feedlot - for ICM Farm Products Pty Ltd.

Metung Sewerage Scheme, Tambo, VIC. Review of groundwater aspects of land disposal of sewage effluent on shores of Lake King - for South East Engineering Survey and Services.

Environmental Study, Wallagoot Lagoon, Bega, NSW. Study of the impact of subdivision of agricultural land on a coastal lagoon - for Bega Valley Shire Council.

'Kabinga' Feedlot, Narromine, NSW. Study to assess the likely impact of a large beefcattle feedlot on surface and subsurface water resources. Design of a monitoring network for Killara (Quirindi) Pty Ltd.