

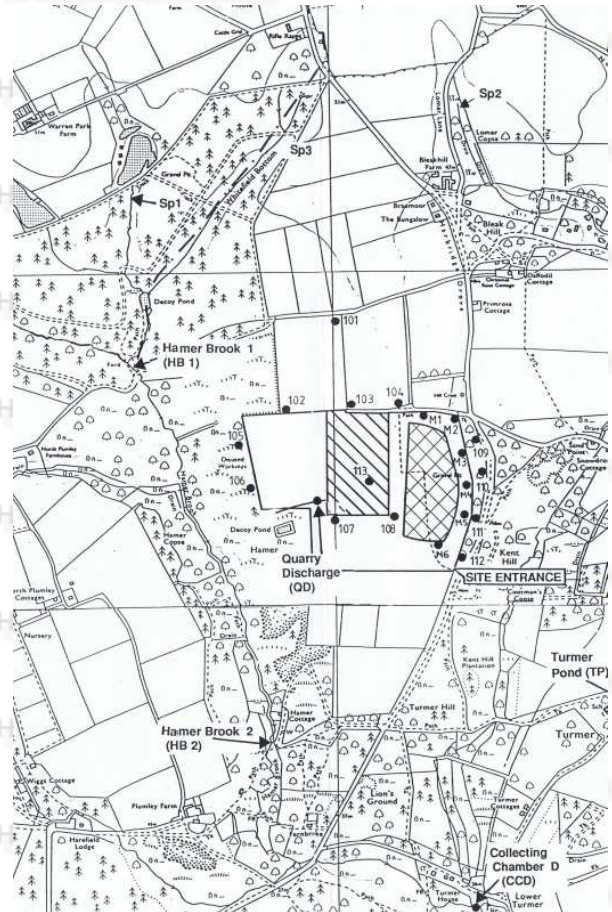
PROJECTS

CONTAMINATED LAND & GROUNDWATER

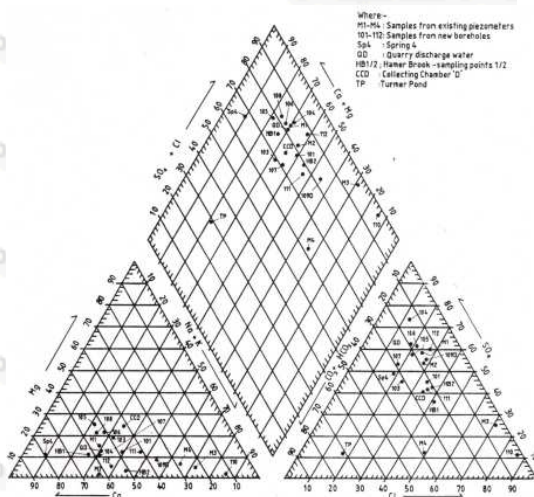
Assessment of Landfill Development via 'Disperse & Attenuate' or Containment, Hamer Warren

A site investigation was conducted at a quarry to assess the impact of existing landfill on groundwater quality and whether there was potential for further development via 'disperse-and-attenuate' or containment.

Groundwater quality indicated that contamination was occurring from the area that had previously received putrescible waste. Geotechnical & hydrochemical analysis showed that the in-situ soil lacked sufficient attenuation potential, via adsorption & cation exchange to be effective in improving leachate quality via a 'disperse and attenuate' landfill development.



- Existing open area
- Limit of industrial and commercial waste
- 101-113 new monitoring bores
- M1-M6 existing piezometers



A recommendation was made for the provision of control measures to prevent further contaminant migration. Further development of the landfill should occur via 'containment' of the waste by sealing and lining the base and capping the top, with leachate collection and treatment. This would minimise rain infiltration, leachate generation and/or leakage from the existing unlined putrescible wastes. A treated leachate disposal route was identified.

HydroSolutions Pty Ltd
 U14/14 Whyalla Street
 Willetton
 Western Australia 6155
 Tel: (+61 8) 9457 5448
 Fax: (+61 8) 9457 4293
 Mob: 0403 021533

E-mail: stuart.jeffries@hydrosolutions.com.au
 Website: www.hydrosolutions.com.au