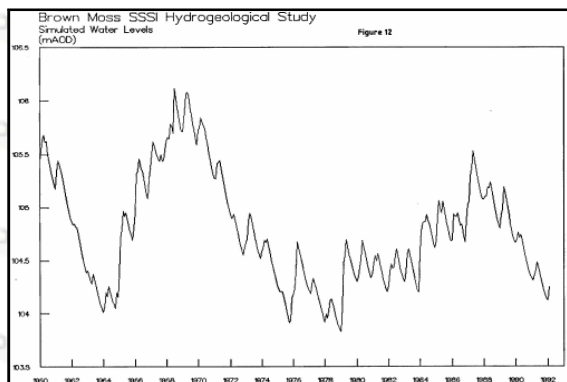
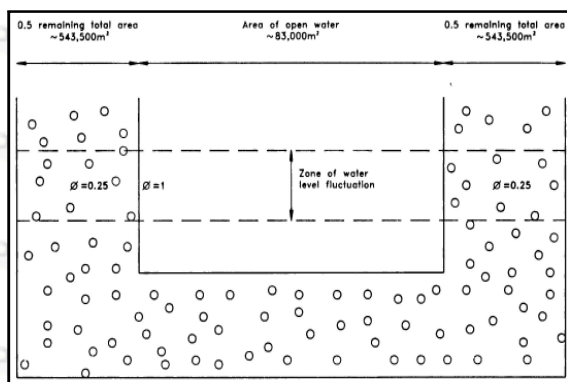
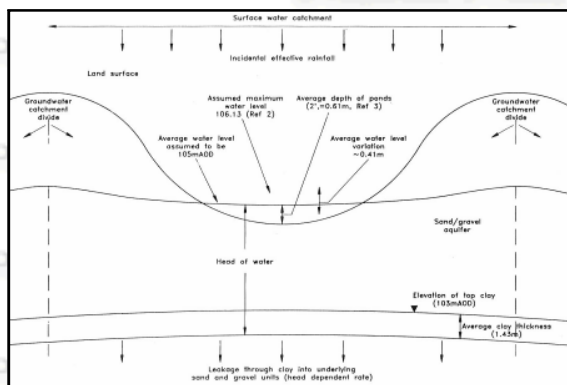




PROJECTS HYDROGEOLOGY



Hydro20

ENGLISH NATURE

Causes of water recession at Brown Moss Wetland SSSI

A hydrological & hydrogeological appraisal of the causes of water recession was undertaken, over concerns regarding local development impacts.

Brown Moss is a localised shallow perched groundwater aquifer, supporting the wetland areas. Water outflow occurs as leakage through underlying clay into deeper sandy units.

Information regarding local road and infrastructure development was obtained, although none were concluded to have any significant impact on water levels.

Climatic data over the last 33 years was used to develop synthetic hydrographs. These indicated that average effective rainfall was insufficient to maintain former water levels within the moss. This may also have been exacerbated by continued dredging activities within the ponds.

Recommendations were made for ongoing monitoring, and evaluation of using compensation water from deeper aquifers.

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