

Mallee CMA region

Key bore data has been selected across the Mallee Catchment Management Authority area as representative of groundwater levels, behaviour and trends.

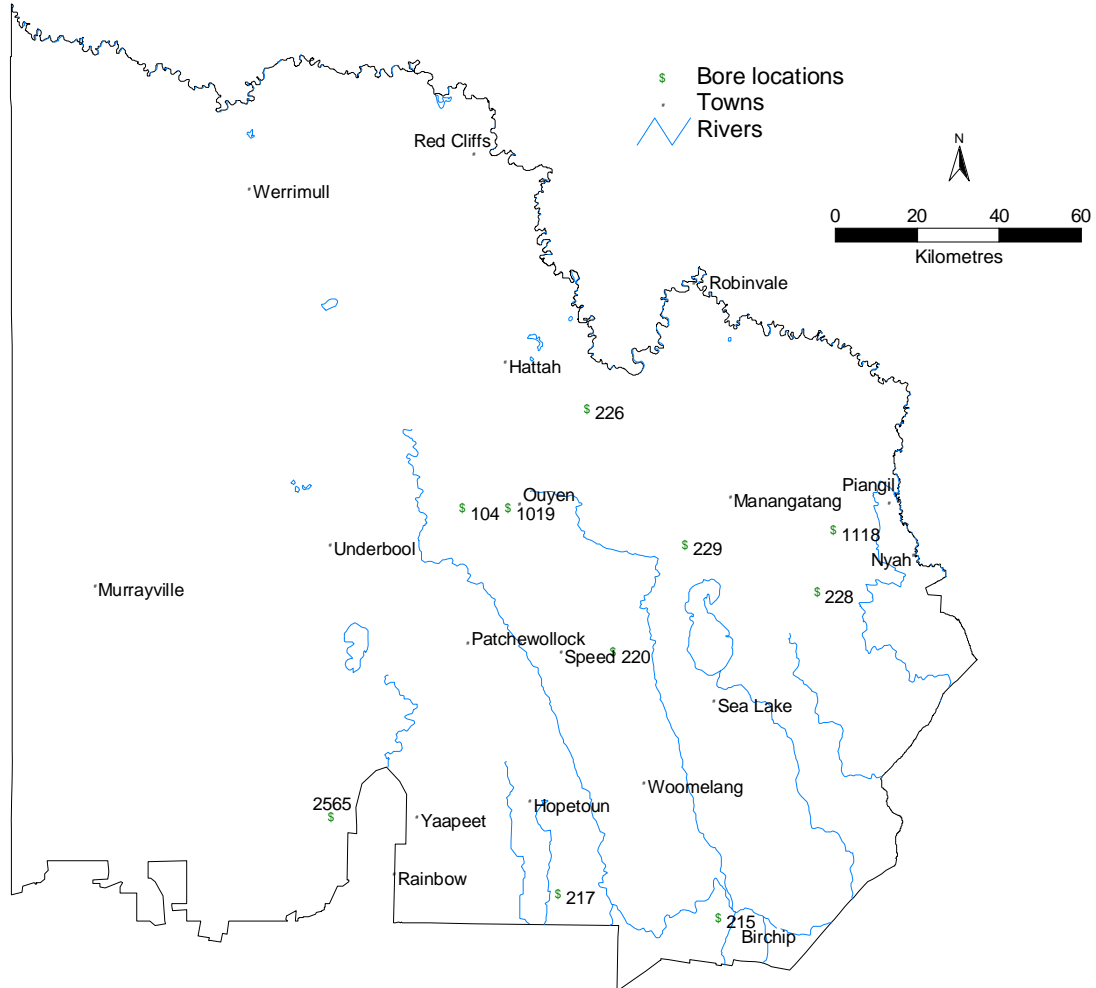


Figure 23 Map of key bores within the Mallee CMA region.

Groundwater behaviour

Monitoring bores though out the Mallee CMA area generally indicate that groundwater levels have remained fairly static during the monitoring period. Some downward groundwater trends are indicated in bores (229 and 2583) situated on elevated land. Groundwater levels in discharge site monitoring bores remain between 1 and 2 metres from natural surface with seasonal fluctuation apparent. Indications are that drought conditions over the decade 1996 – 2006 have not had a dramatic impact on groundwater levels.

Bore data

Table 7 Bore details

| Bore Id | Total Depth | Screen Depth From | Screen Depth To | Landscape Position |
|---------|-------------|-------------------|-----------------|--------------------|
| 226 | 72 | 27 | 35 | nr |
| 104 | 57.1 | nr | nr | nr |
| 1019 | 10 | nr | nr | SE edge salt area |
| 229 | 68 | 24 | 30 | nr |
| 220 | 54 | 24 | 35 | nr |
| 2565 | 30 | nr | nr | nr |
| 217 | 48 | 18 | 24 | nr |
| 215 | 54 | 18 | 24 | nr |
| 228 | 102 | 60 | 66 | nr |
| 1118 | 14.22 | nr | nr | Crest |
| 1002 | 5 | nr | nr | SE edge salt area |
| 2581 | 4.8 | nr | nr | Salt Flat |
| 2582 | 8.13 | nr | nr | Sandy Rise |
| 2583 | 10 | nr | nr | nr |
| 2584 | 7.11 | nr | nr | nr |

*nr not recorded



Figure 26 Bore 2583



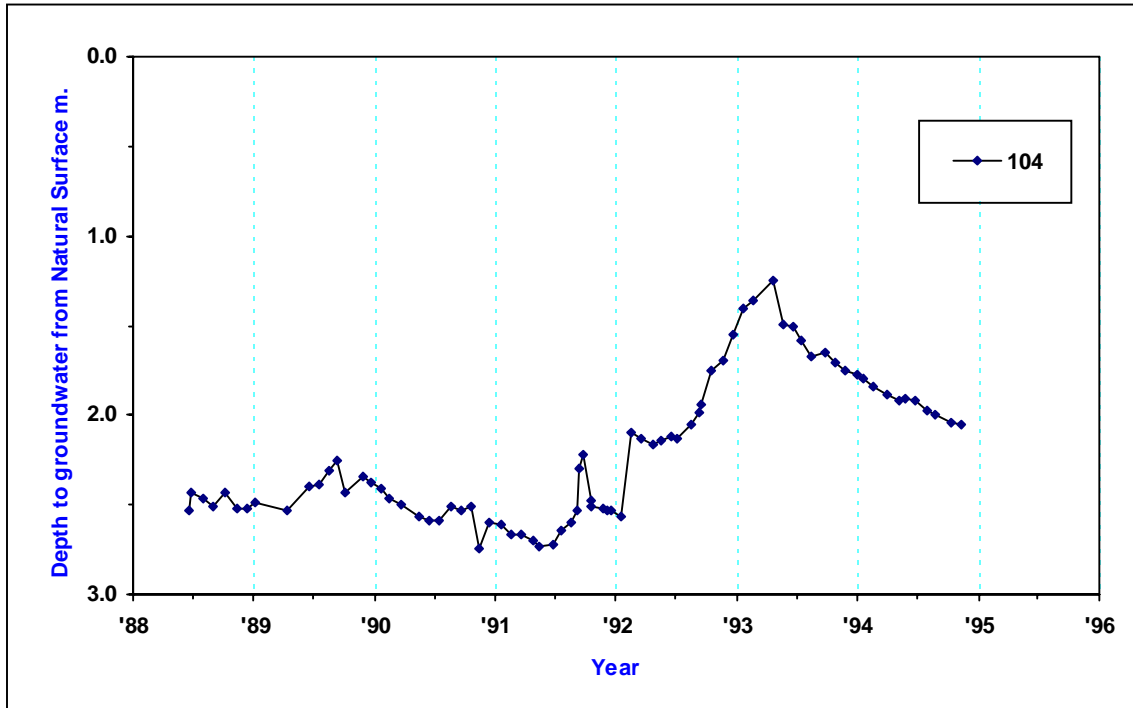
Figure 26 bore 226



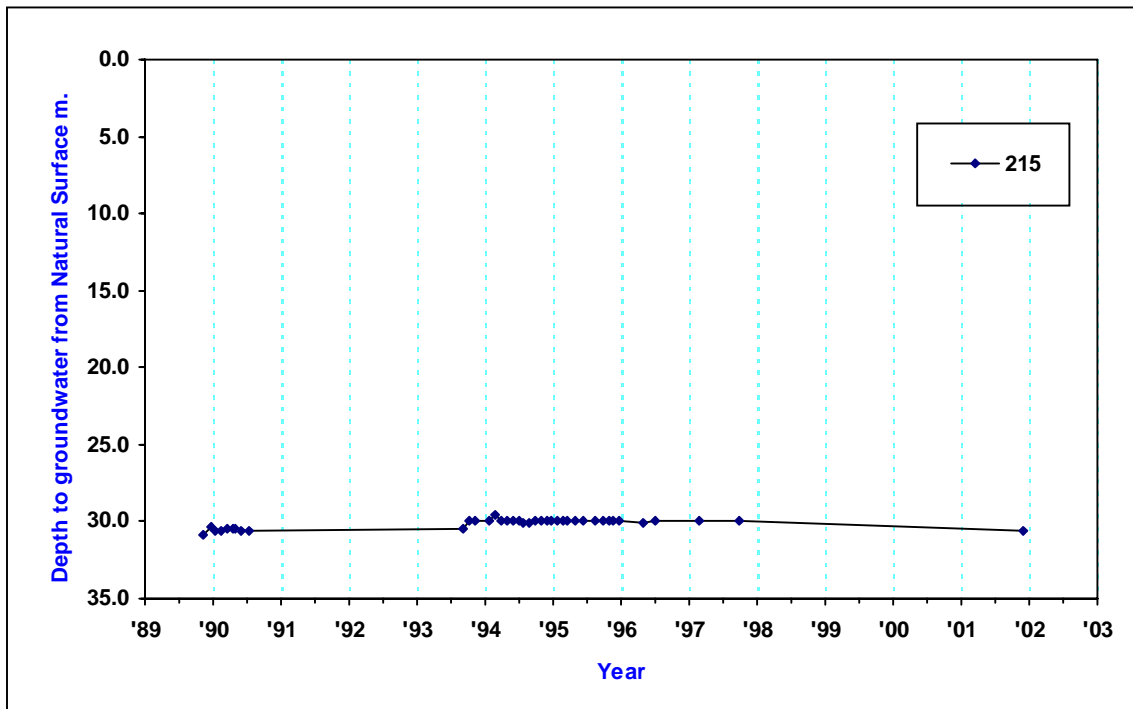
Figure 27 bore 217, Hopetoun.

Bore hydrographs

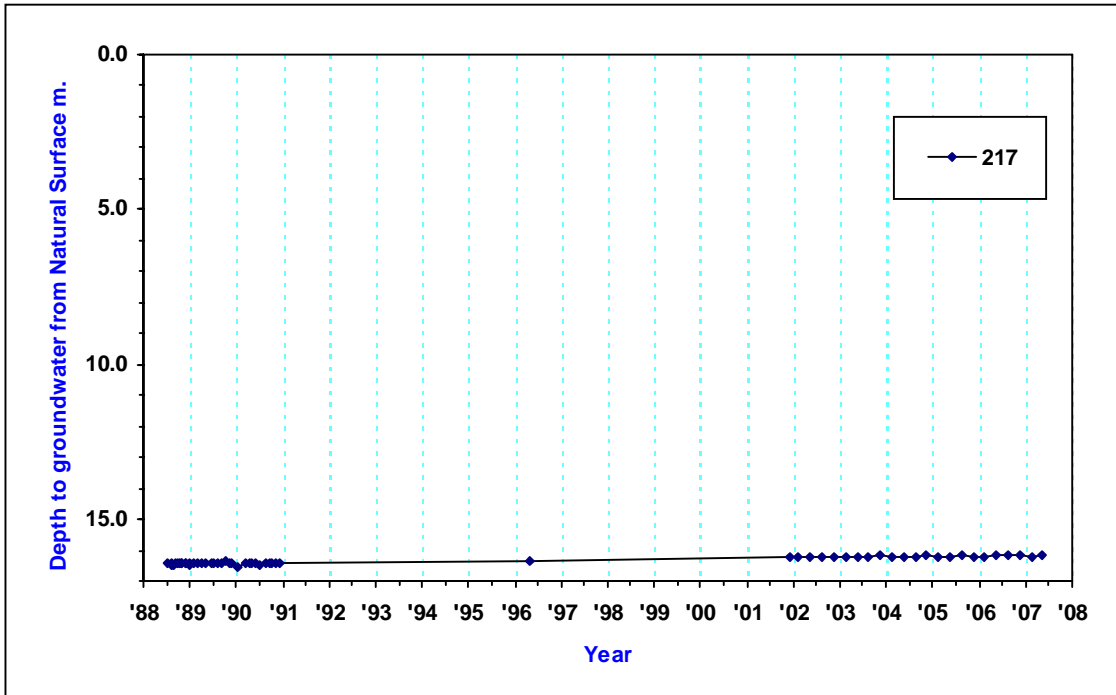
The hydrographs that are provided below are plots of the unedited depth to groundwater as measured in the key monitoring bores and plotted as depth below natural surface (ground level). A brief interpretation is provided of each hydrograph in an attempt explain the groundwater behaviour at the bore site.



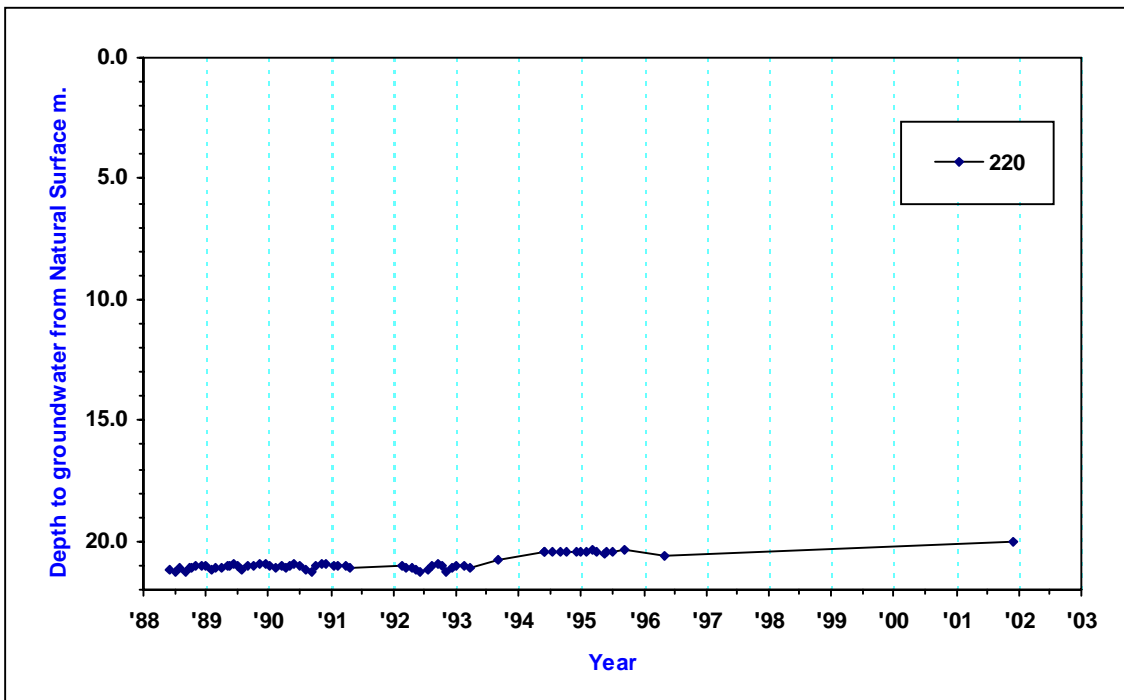
Bore 104 overall rising trend, subdued behaviour, sharp rise in 1992



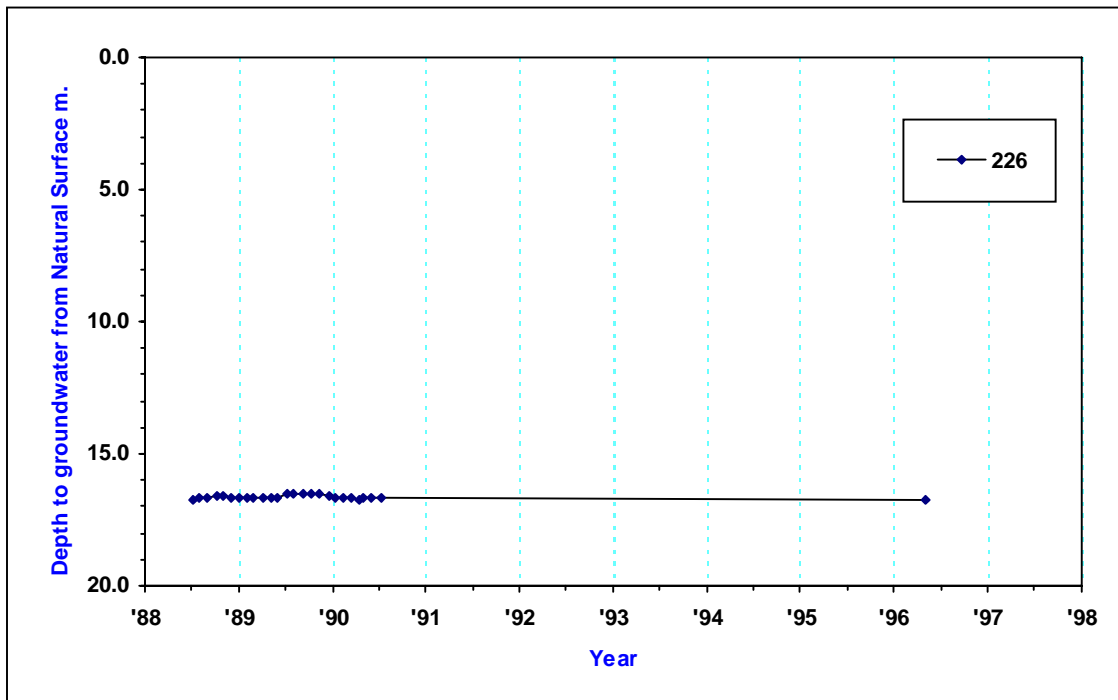
Bore 215, overall rising trend, subdued behaviour



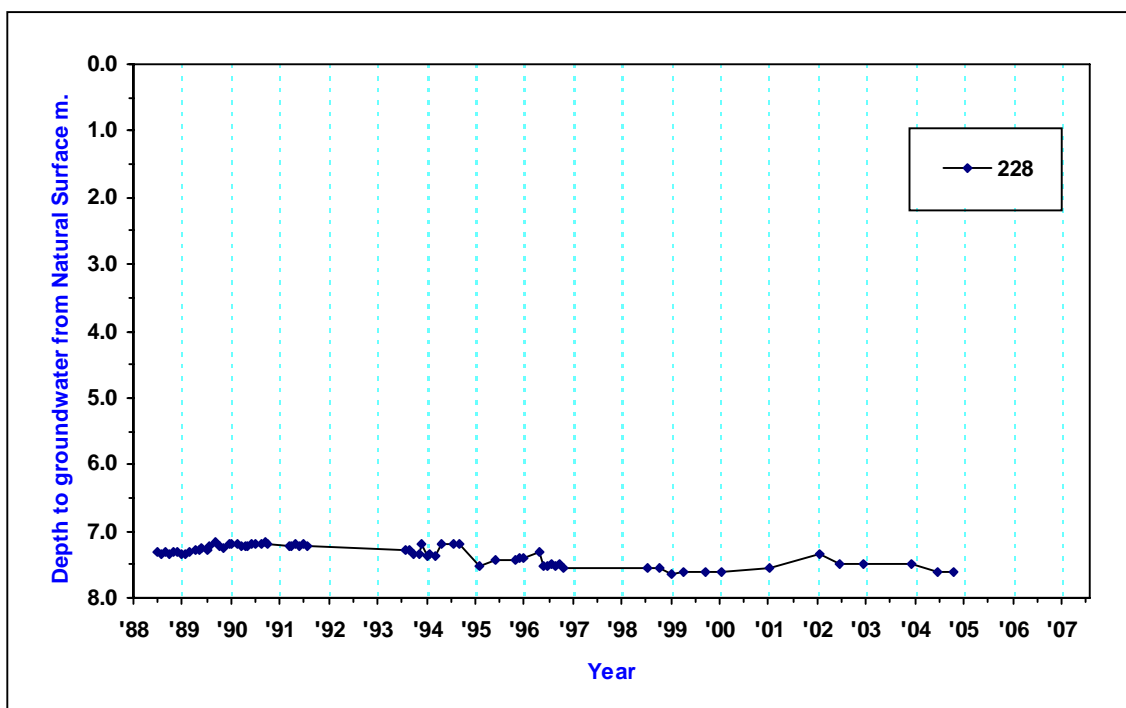
Bore 217, overall rising trend, subdued behaviour



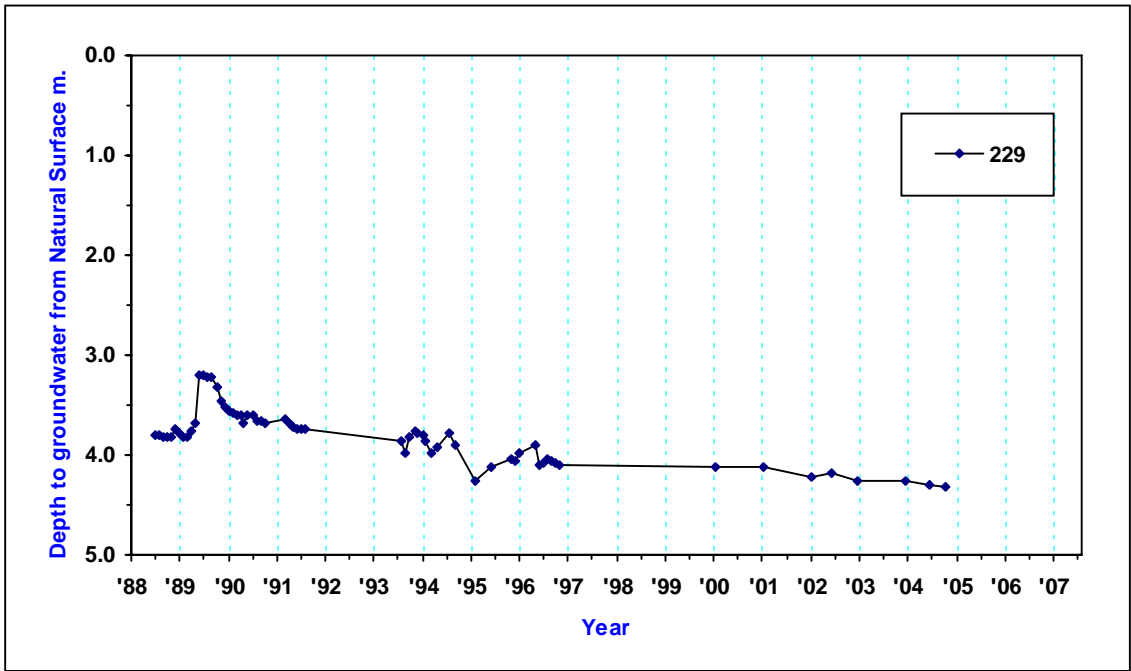
Bore 220, overall rising trend, sudden increase in level needs to be investigated.



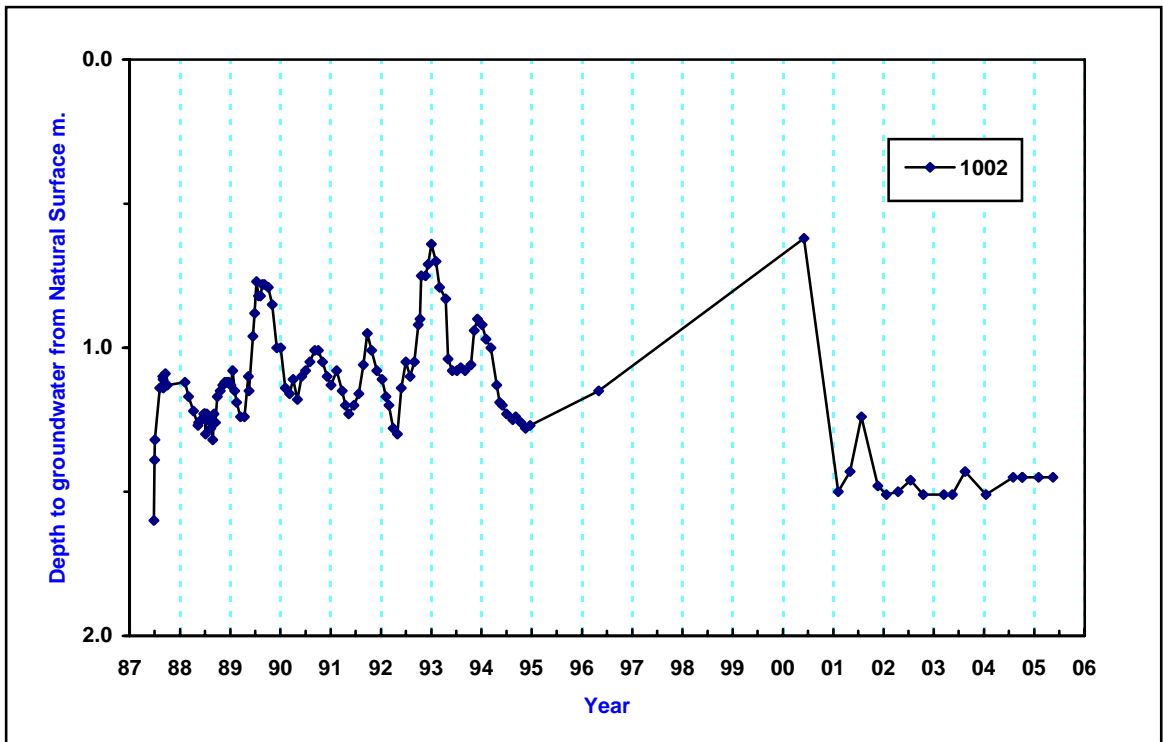
Bore 226, stable trend subdued behaviour



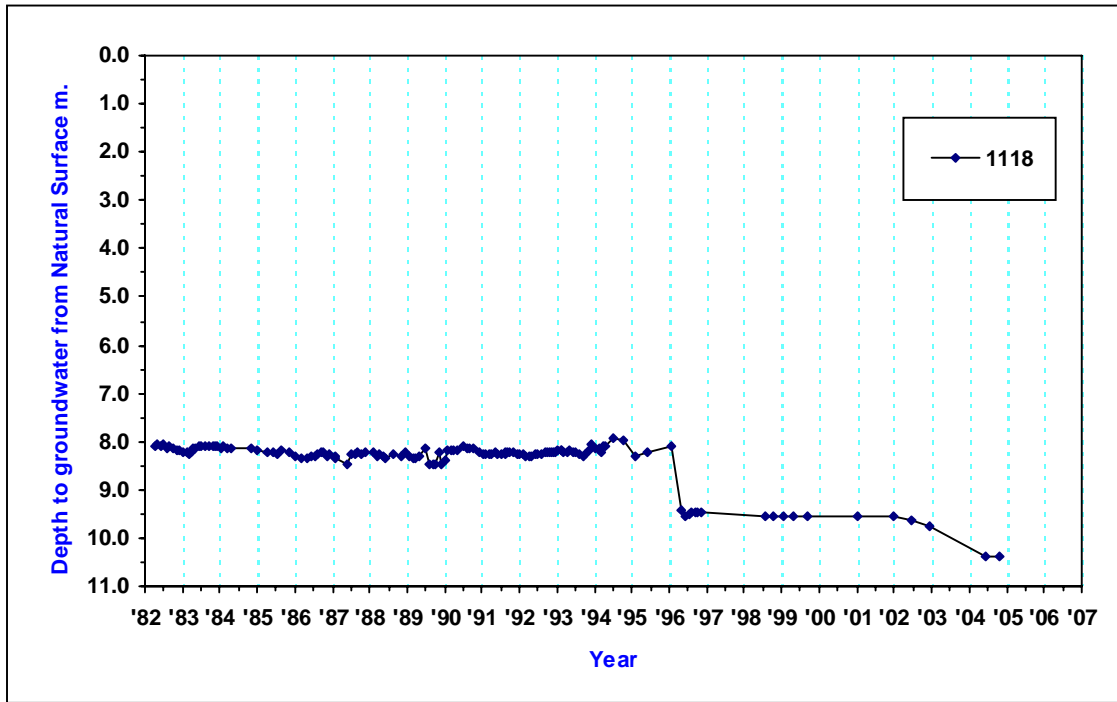
Bore 228, overall downward trend, subdued behaviour



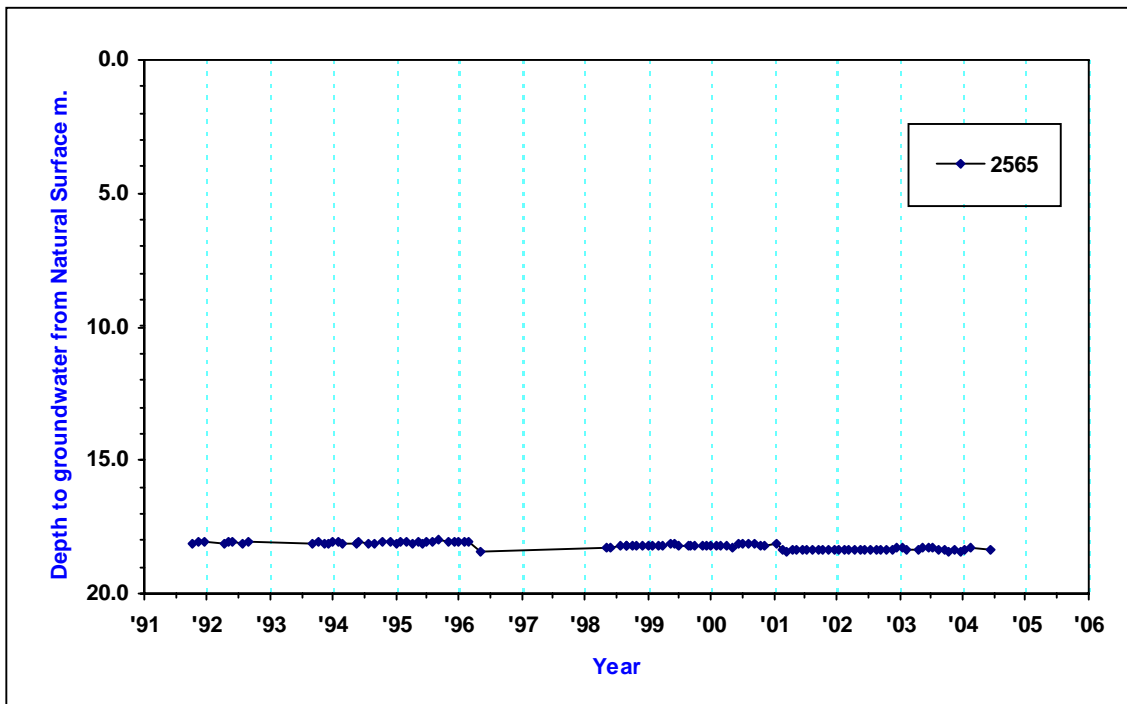
Bore 229, overall downward trend, subdued behaviour



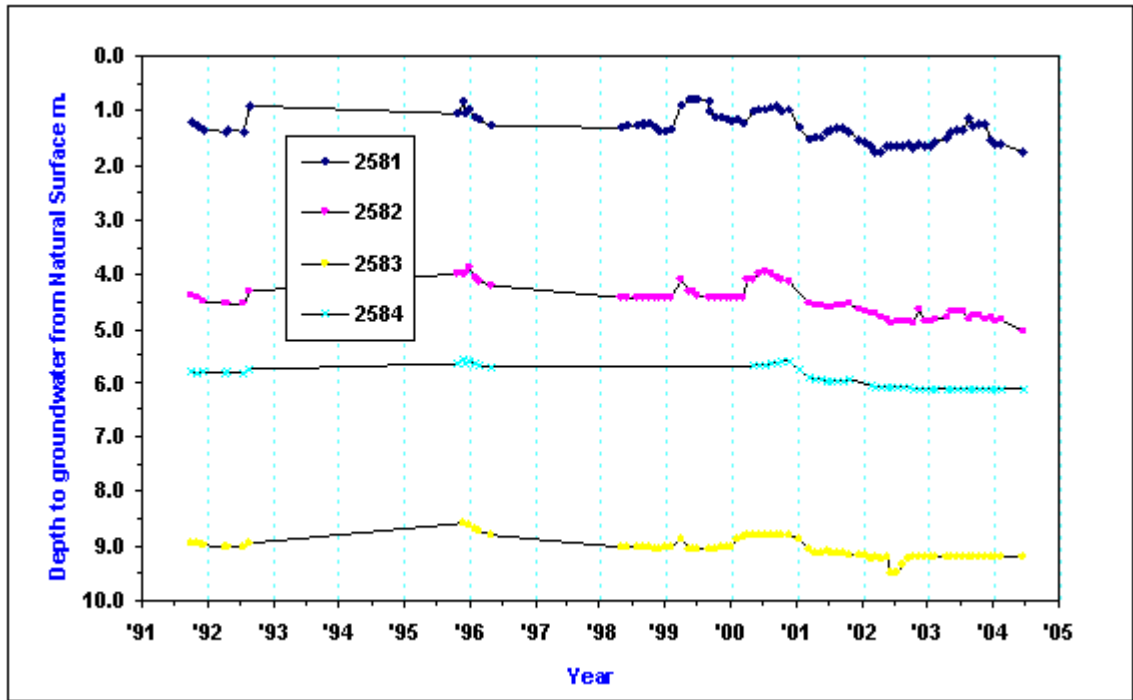
Bore 1002, seasonal behaviour influenced by proximity to wetland. A break in data collection from 1996 to 2001 then quarterly collections there after



Bore 1118, overall downward trend, subdued behaviour



Bore 2565, overall downward trend, subdued behaviour



Bore 2581, 2582, 2583 and 2584 lie as transect up slope of a discharge zone. The bores show similar subdued behaviour with seasonal response during wet years