

C071 (P) and R071 (P) Discussion

The standing water level of C071 (P) and R071 (P) differ by 4.25m. This difference can not be explained by topographic effects. Water flowed from C071 (P) when piezometer was sealed off from external influences. This suggests that the floor to PBO may be a potential water source, and that it influences the standing water level of shallow drill holes.

Its effect upon the standing water level may be dissipated in R071 (P) which is a deeper drill hole.

C075 (P)

Cored hole C075 was open to 21.6m. A cement plug was added between 21.6 and 20.5m. The piezometer is installed at 20.5m and slotted between 20.5 and 17m. A cement plug caps the gravel and seals the zone 20.5 to 17m.

The piezometer will monitor the expected water pressure of seam PC0.

R081 (P1)

Rotary chip hole was flowing when piezometers were set. The hole was bridged at 30. Piezometer 1 was set at 66m, which was the total depth of the hole. A clay plug was inserted between 30 and 28.9m, and a cement plug between 28.9 and 27m.

Piezometer 1 flowed at the rate of approximately 1 gallon every 5 minutes with a 4m head.

R081 (P2)

Clay cuttings were used to backfill the hole between 27 and 20m. A cement plug was added between 20 and 18.5m. Piezometer 2 is set at a depth of 18.5m and is slotted between 18.5 and 17.5m. Coarse bluemetal gravel (crushed dolerite) was used to backfill R081 to a depth of 17.75m. A cement plug was added above the gravel and the hole backfilled to the surface with cuttings.

Piezometer one monitors the aquifer zone below LCO, and LCO seam. Piezometer two monitors the water pressure of the LB3 floor.

R086 (P)

Rotary drill hole R086 was open to total depth, but bridged off at 30m when backfilled with gravel. The hole was backfilled to 20.3m, and a cement plug placed between 20.3 and 19.8m. The piezometer is set at 19.8m and slotted between 18.25 and 19.8m. Gravel was used to backfill the hole to 15m, and the zone to be monitored 19.8 to 15m, was sealed off with a cement plug. The hole was backfilled to the surface with cuttings.

The piezometer monitors the water pressure of the LAO floor.