THE UNIVERSITY OF ADELAIDE

THE GEOLOGY AND GEOCHEMISTRY
OF ADELAIDEAN SEDIMENTS,
MOUNT PAINTER PROVINCE,
SOUTH AUSTRALIA,
WITH EMPHASIS ON
THE UPPER UMBERATANA GROUP

BY

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THE GEOLOGY AND GEOCHEMISTRY OF ADELAIDEAN SEDIMENTS, MOUNT PAINTER PROVINCE, SOUTH AUSTRALIA, WITH EMPHASIS ON THE UPPER UMBERATANA GROUP.

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ERRATUM

Nuccaleena Formation wrongly placed in the Umberatana Group; actually at the base of the Wilpena Group.

ABSTRACT

Adelaidean sediments occurring on the eastern side of the Mount Painter Province in the Umberatana and Yerelina Synclines have been mapped and investigated geochemically.

Glacial marine conditions are proposed for both the upper and lower glacial sequences while marine conditions predominated during the deposition of the interglacial sequence. Some fresh-water influence is envisaged during the deposition of the lower Amberoona Formation and the Ulupa Siltstone.

The Amberoona Formation has been subdivided on the basis of geochemical evidence and observations made in the field.

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