

ALYNOLOGICAL EXAMINATION OF DUNAWALLA 9 AND 10 AND GEELENGLA 10, TWAY BASIN, VICTORIA

ore samples from Dunawalla 9, 10 and Geelengla 10 were examined for alynological dating by V. Archer. The zonation scheme used is that f Stover and Partridge 1973.

RESULTS

Dunawalla 9

bepth: 90.5-91.5 m

spore-pollen Zone: M.diversus Zone

Age: Early Eocene

omments: The presence of I. notabilis, N. heterus, L.lanceolatus and

low proportion of Nothofagidites spp. suggest the M.diversus zone.

A few species are present which may be the result of reworking of Palaeocene sediments and these are A.obscurus, L.balmei and

A.dilwynensis.

Dunawalla 10 Depth: 47-50 m

Spore-pollen Zone: Indeterminate

Comments: The spore-pollen yield was extremely low and consists almost entirely of fungal or algal spores which are a dark brown colour indicating thermal alteration.

Geelengla 10

Depth: 71.0-71.5 m

Spore-pollen Zone: P.tuberculatus Zone

Age: Early Oligocene-Early Miocene Comments: Sample contains a low yield of poorly preserved spores and pollen which are thermally altered to a brownish-yellow colour . Fern spores and algal or fungal spores are common and one occurrence of dinoflagellates is recorded (S. ramosus).The

assemblage suggests a wet possibly brackish environment. The reworked Early Cretaceous speciës Classopollis sp. is also

present. The zone is indicated by the presence of C. annulatus and

P.micus which suggest the upper P.tuberculatus Zone.

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