

# Fern Fossil - Basin Creek Formation



The Basin Creek Formation, the uppermost layer of the Nymboida Coal Measures within the Clarence-Moreton Basin of New South Wales, preserves a remarkable Middle Triassic flora of global importance. Fossils from two quarry sites reveal how plant communities recovered after the catastrophic Permian–Triassic extinction event.

Among the most significant finds are fern-like foliage, ginkgophytes, and *Dicroidium*, offering a vivid picture of the diverse vegetation that thrived more than 230 million years ago.

The fern flora is especially diverse, ranging from small delicate forms to large fronds similar in scale to modern tree ferns. Groups such as the Marattiales, Osmundales, and Filicales are represented, alongside foliage types not yet assigned to any family or order. These fossils provide an unparalleled glimpse into the structure of Triassic plant life and the resilience of ancient ecosystems.



This specimen formed part of the 'Buckley Collection' prior to donation