

Figure 3.2/23 Acceleration Coefficient Map of NSW, Victoria and Tasmania (from SAA, 1993)

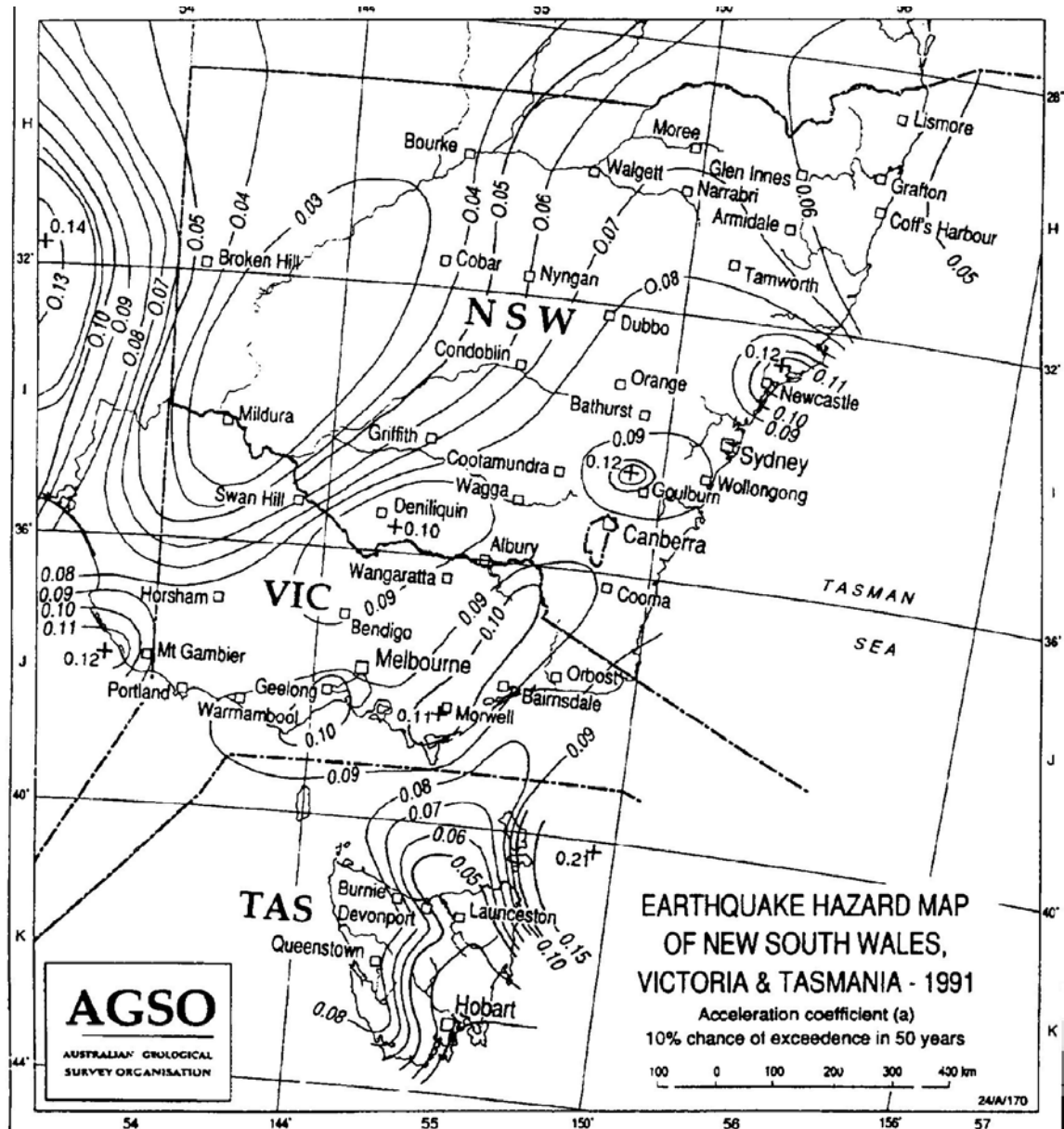


Figure 3.2/24 Generalised geology of the Mesozoic and Cenozoic age sedimentary rocks of the Sydney Basin, and location of Paleozoic age basement rocks forming the Lachlan and New England fold belts surrounding, and underlying the Sydney Basin (from Seismic Hazard Analysis, 1999).

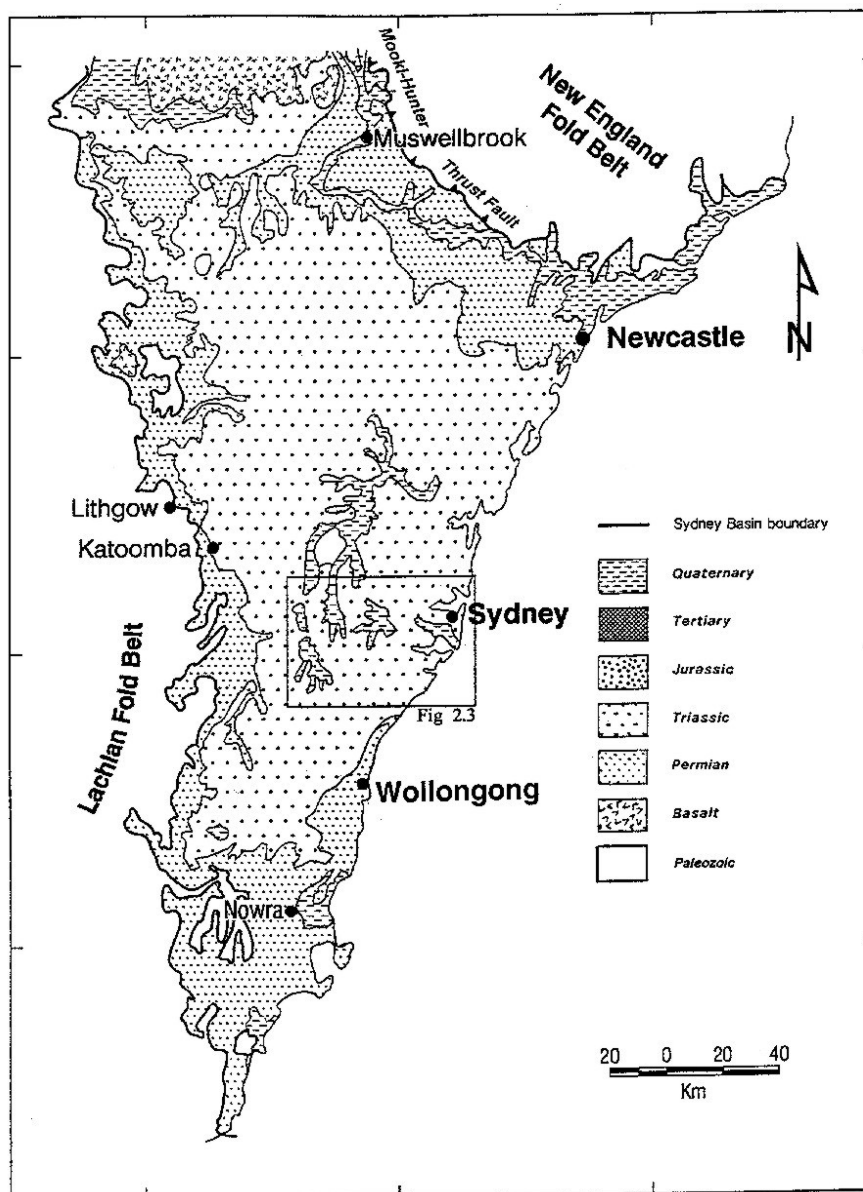


Figure 3.2/25 Location of high resolution seismic reflection lines off shore of the Sydney region, and line drawings of the geological structure on the continental shelf. Shaded areas are acoustic basement and unshaded packages are interpreted as Mesozoic and Cenozoic units. There is little apparent displacement of the uppermost, presumably Cenozoic, units.

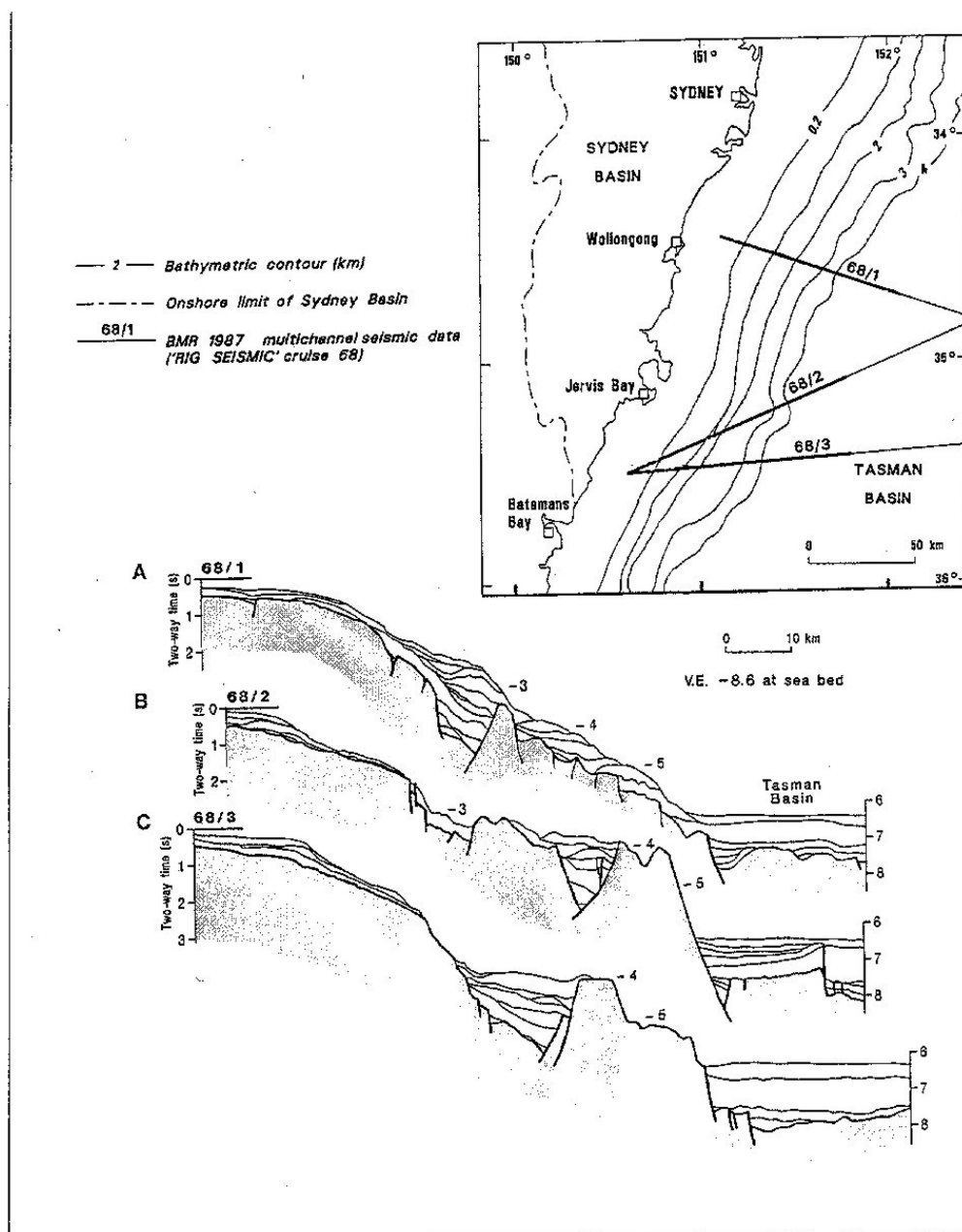


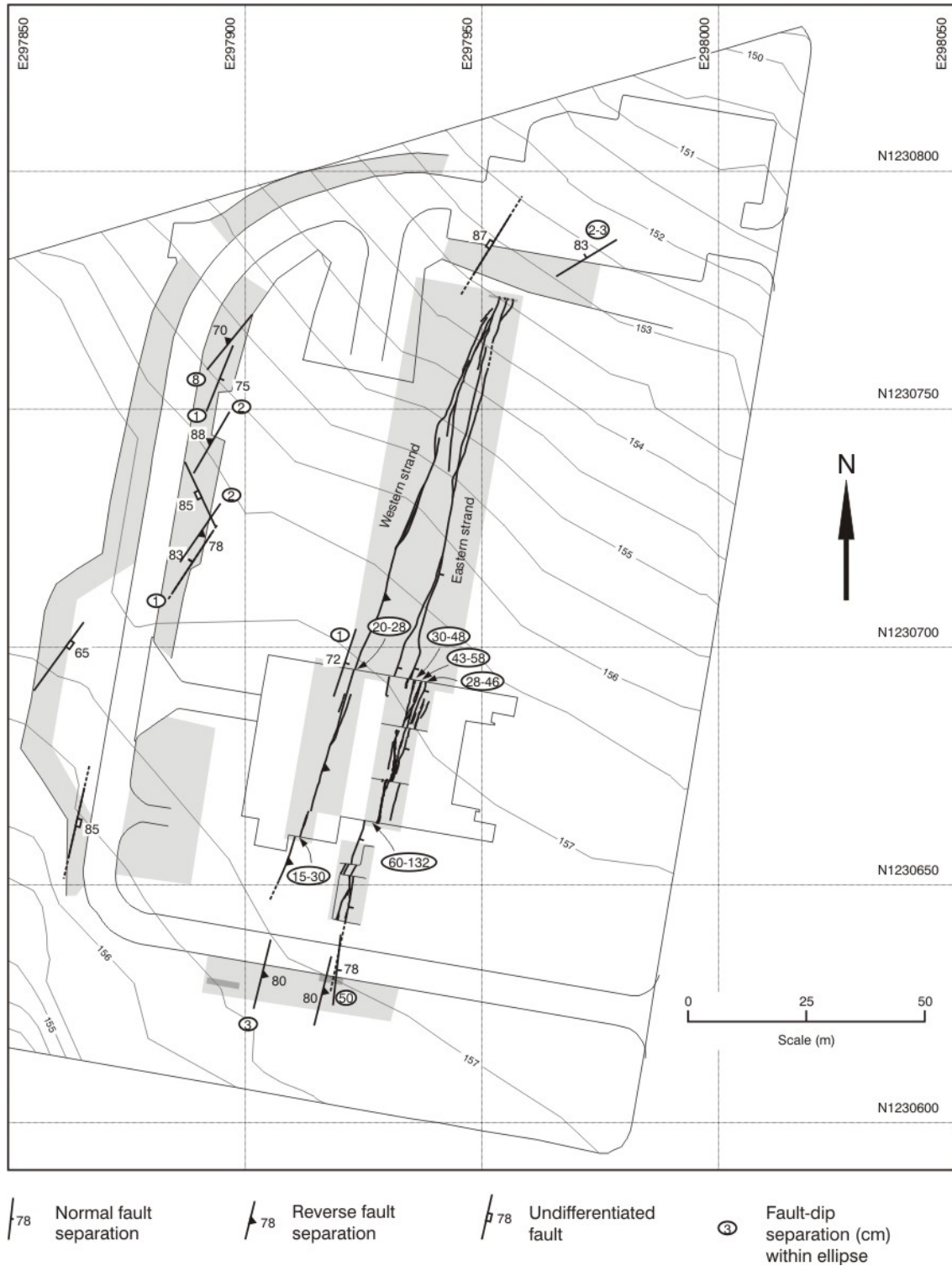
Figure 3.2/26 Site Map Showing Location of Faults (ANSTO, 2002)

Figure 3.2/27 Structural features around Lucas Heights (from Seismic Hazard Analysis, 1999)

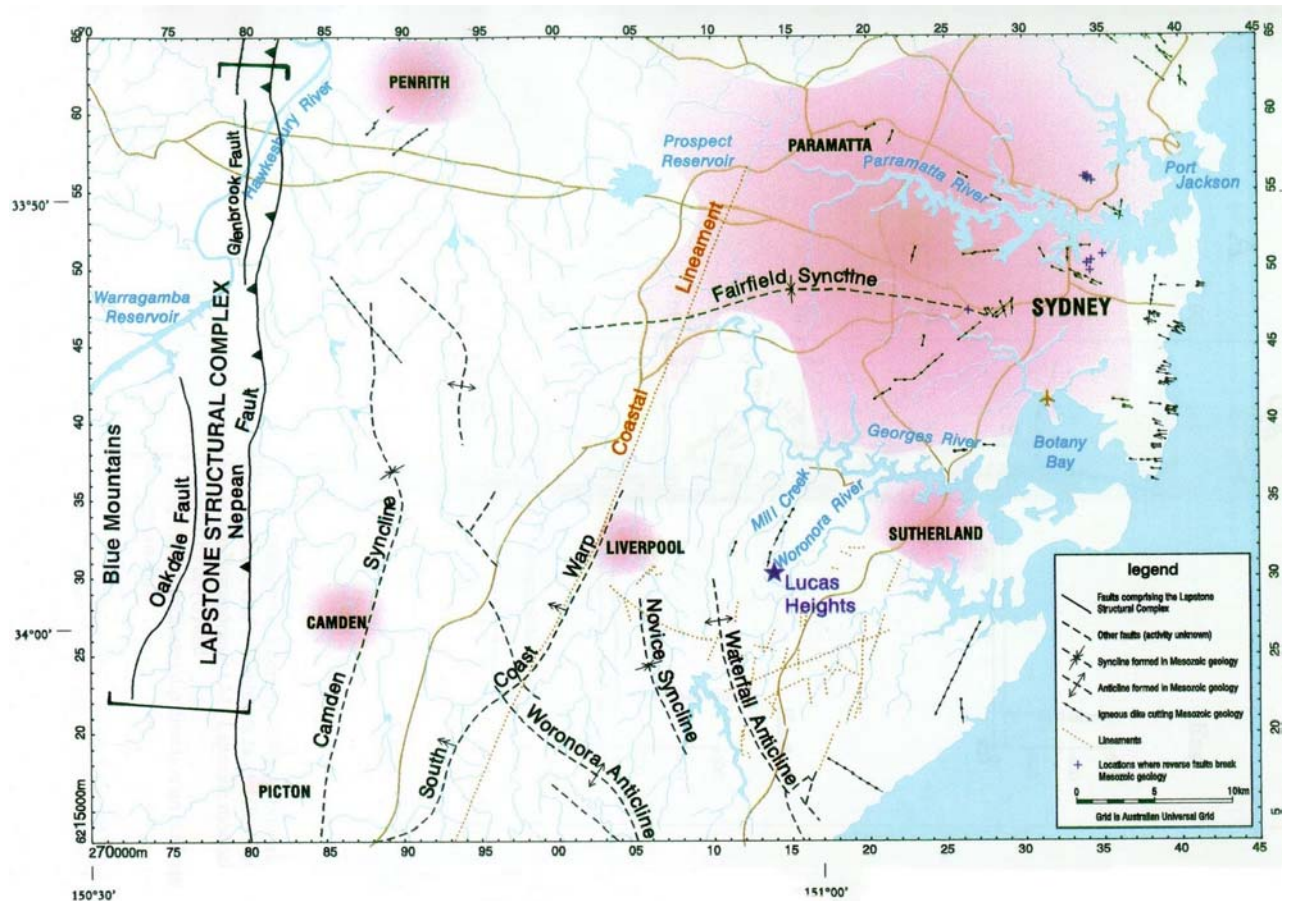


Figure 3.2/28 Field Mapping for Geological Reconnaissance

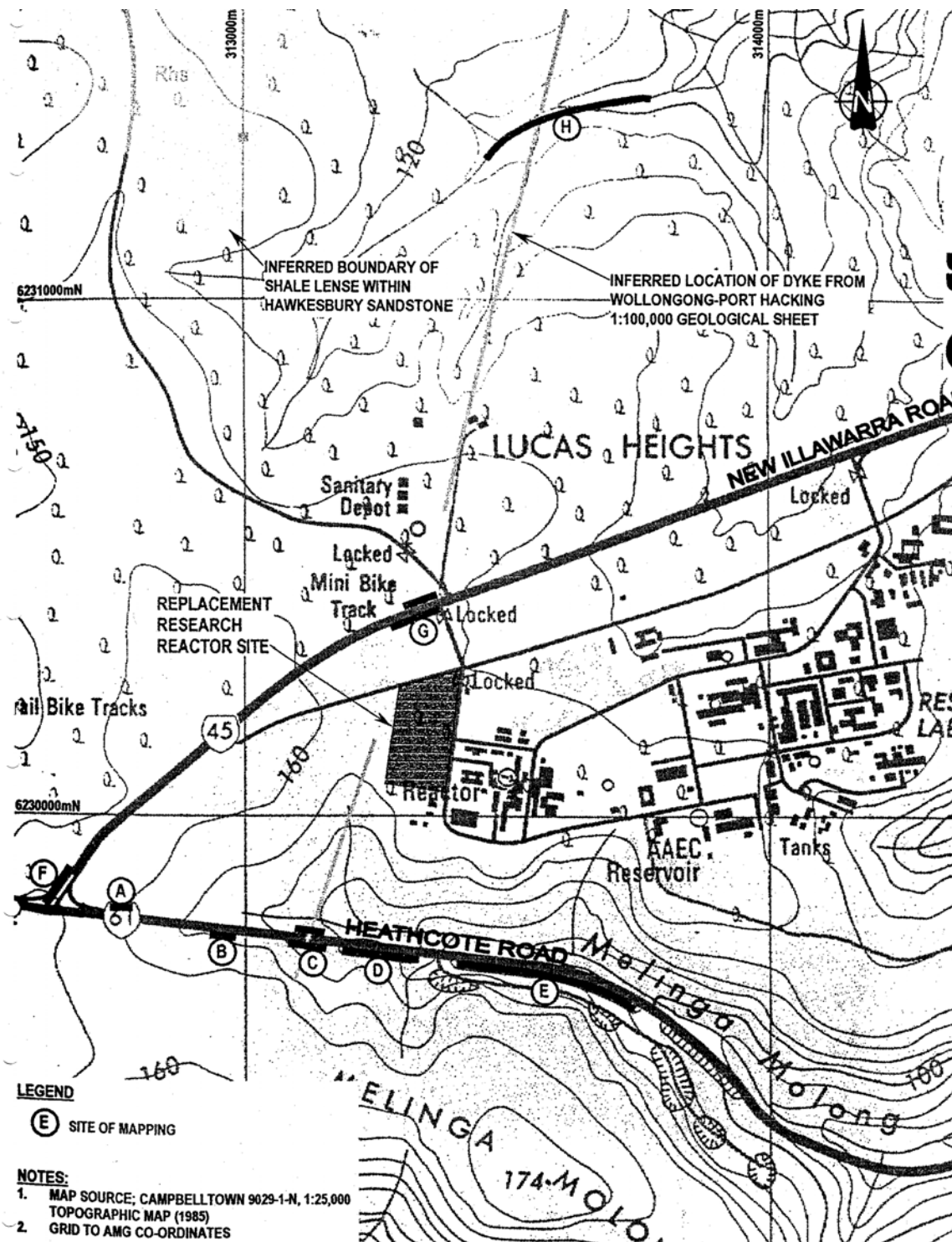
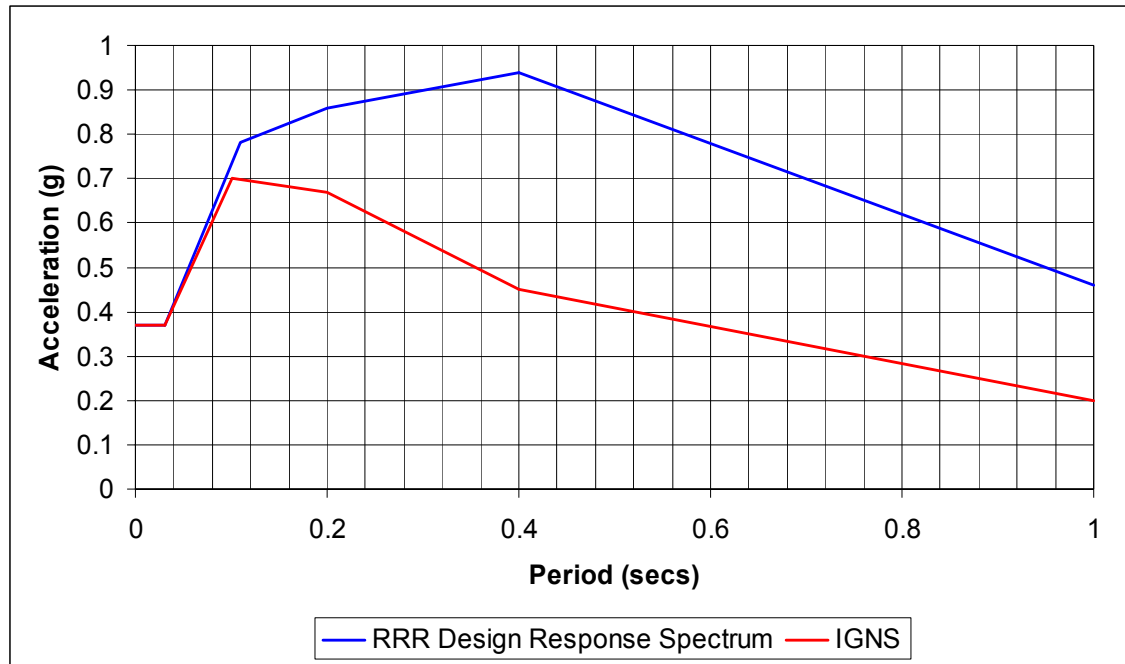


Figure 3.2/29 Comparison of Design Basis Earthquake adopted for the Reactor Facility with the IGNS Spectrum provided by Stirling and Berryman (2001)



Note: In accordance with international practice, the PHGA is applied up to a period of 0.03s.

Figure 3.2/30 Location of LHSTC and Offsite Sampling Points

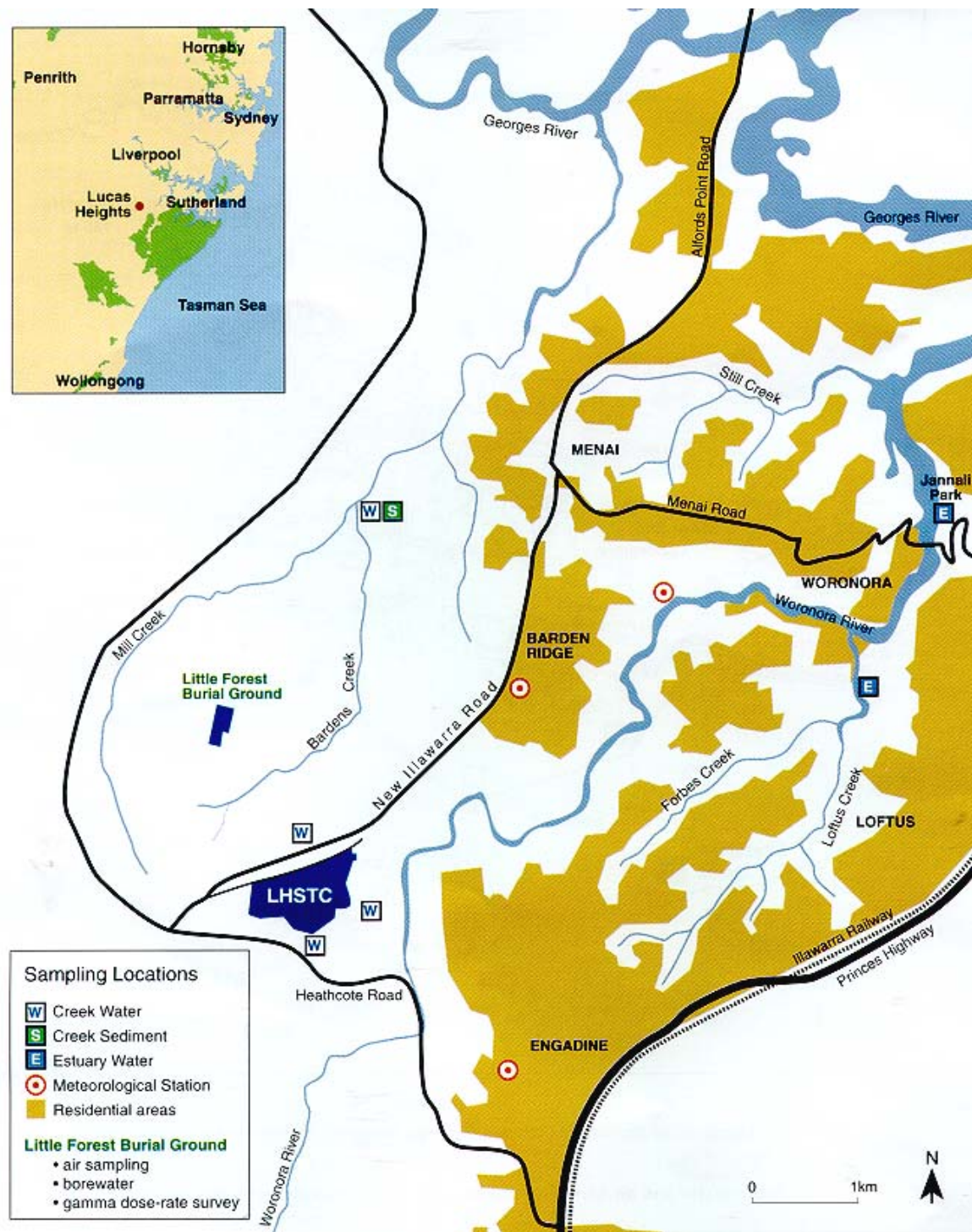


Figure 3.2/31 Location of Sampling Zones at Potter Point Ocean Outfall and the Royal National Park

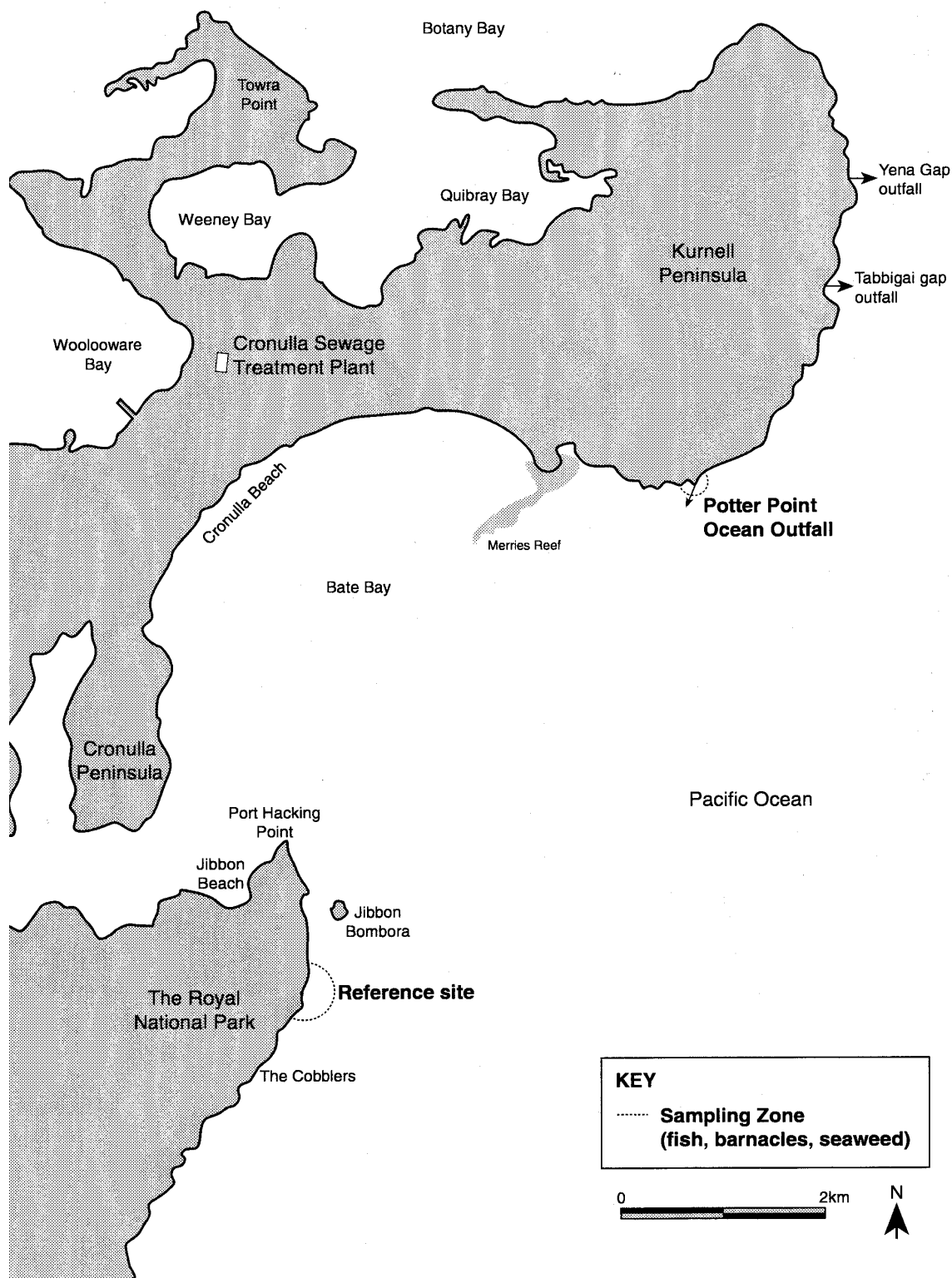
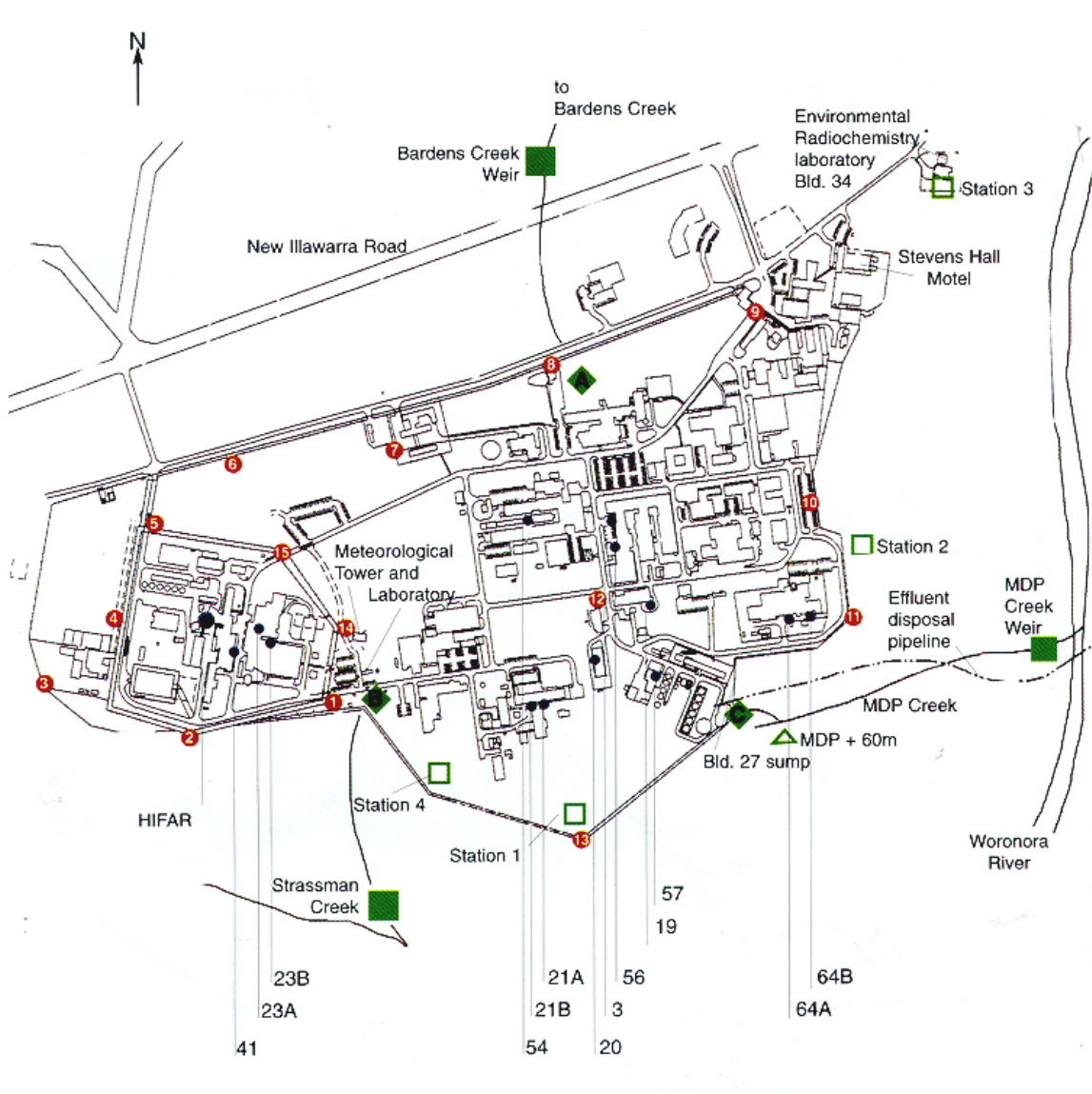


Figure 3.2/32 Locations of Stormwater, Air and External Radiation Monitoring Points at LHSTC*Locations of Stormwater, Air and External Radiation Monitoring Points at LHSTC*

- Stormwater and air sampling points**
- Continuous air sampling stations
 - SPCC sampling point (water)
 - ▲ MDP + 60m (water)
- Stormwater retention bunds**
- ◆ Behind building 1
 - ◆ Opposite meteorological tower
 - ◆ MDP
- Airborne effluent release stacks (Building number)
- ② External radiation dosimeters (TLDs)

End of Figures