



## Appendix E — Australia's uranium ore reserves and mineral resources

The following tables, prepared by Geoscience Australia, list the uranium ore reserves and mineral resources for Australian uranium deposits as reported by the mining companies as at December 2005. Australia's seven largest deposits are shown in bold.

## Northern Territory

| DEPOSIT  | RESERVES /<br>RESOURCES <sup>(a) (b)</sup> | GRADE<br>% U <sub>3</sub> O <sub>8</sub> | CONTAINED U <sub>3</sub> O <sub>8</sub><br>(Tonnes) |
|--|--|--|---|
| <i>Alligator Rivers Region</i>   |  |  |   |
| <b>Ranger No 3<br/>Orebody</b>   | <b>Ore Reserves</b>                        | <b>0.20</b>                              | <b>44 457</b>                                       |
|  | <b>Mineral Resources</b>                   | <b>0.14</b>                              | <b>42 587</b>                                       |
| Jabiluka 1   | Mineral Resources                          | 0.25                                     | 3 400   |
| <b>Jabiluka 2</b>  | <b>Ore Reserves</b>                        | <b>0.52</b>                              | <b>67 000</b>                                       |
|  | <b>Mineral Resources</b>                   | <b>0.46</b>                              | <b>96 000</b>                                       |
| <b>Koongara No 1<br/>Orebody</b>                                       | <b>Ore Reserves</b>                        | <b>0.8</b>                               | <b>14 500</b>                                       |
| Koongara No 2<br>Orebody   | Mineral Resources                          | 0.3                                      | 2 000   |
| Hades Flat   | Mineral Resources                          |  | 726   |
| Ranger 4   | Mineral Resources                          |  | 200   |
| Ranger 68 (Barote)   | Mineral Resources                          | 0.357                                    | 5 500   |
| <i>South Alligator Valley</i>  |  |  |   |
| Coronation Hill  | Mineral Resources                          | 0.537                                    | 1 850   |
| El Sherana West  | Mineral Resources                          |  | 80  |
| <i>Allamby Region</i>  |  |  |   |
| Twin and Dam   | Mineral Resources                          | 0.13                                     | 746   |
| <i>Oenpelli Region</i>   |  |  |   |
| Caramal  | Mineral Resources                          |  | 2 500   |
| <i>Rum Jungle Region</i>   |  |  |   |
| Mt Fitch and Rum<br>Jungle Creek South<br>deposits and Dyson's<br>Dump | Combined Resources                         | 0.04                                     | 2 344   |
| <i>Amadeus Basin</i>   |  |  |   |
| Angela   | Mineral Resources                          | 0.1                                      | 10 250  |
| <i>Ngalia Basin</i>  |  |  |   |
| Biglyi   | Mineral Resources                          | 0.343                                    | 2 774   |
| Walbiri  | Mineral Resources                          | 0.162                                    | 686   |
| <i>Pandanus Creek</i>  |  |  |   |
| Eva  | Mineral Resources                          |  | 363   |
| <i>Arunta Complex</i>  |  |  |   |

| DEPOSIT                             | RESERVES /<br>RESOURCES <sup>(a) (b)</sup> | GRADE<br>% U <sub>3</sub> O <sub>8</sub> | CONTAINED U <sub>3</sub> O <sub>8</sub><br>(Tonnes) |
|-------------------------------------|--|--|---|
| Nolans Bore                         | Mineral Resources                          | 0.02                                     | 3 977   |
| <b>Total for Northern Territory</b> |  |  | <b>301 940</b>                                      |

## South Australia

| DEPOSIT                          | RESERVES /<br>RESOURCES <sup>(a) (b)</sup> | GRADE<br>% U <sub>3</sub> O <sub>8</sub> | CONTAINED U <sub>3</sub> O <sub>8</sub><br>(Tonnes) |
|----------------------------------|--|--|---|
| <i>Gawler Craton</i>             |  |  |   |
| <b>Olympic Dam</b>               | <b>Ore Reserves<sup>(c)</sup></b>          | <b>0.05</b>                              | <b>389 500</b>                                      |
|                                  | <b>Mineral Resources<sup>(d)</sup></b>     | <b>0.04</b>                              | <b>1 075 500</b>                                    |
| Prominent Hill                   | Mineral Resources                          | 0.012                                    | 9 990   |
| <i>Frome Embayment</i>           |  |  |   |
| Beverley                         | Ore Reserves                               |  | 12 258  |
| Honeymoon                        | Mineral Resources                          | 0.12                                     | 3 300   |
| East Kalkaroo                    | Mineral Resources                          | 0.074                                    | 910   |
| Goulds Dam                       | Mineral Resources                          | 0.045                                    | 2 500   |
| Billeroo                         | Mineral Resources                          | 0.03                                     | 3 600   |
| <i>Flinders Ranges</i>           |  |  |   |
| Radium Ridge                     | Mineral Resources                          | 0.06                                     | 2 177   |
| Mt Gee                           | Mineral Resources                          | ~0.073                                   | 33 200  |
| Armchair, Streitberg<br>Ridge    | Mineral Resources                          | 0.1                                      | 1 814   |
| <i>Olary District</i>            |  |  |   |
| Mt Victoria                      | Mineral Resources                          | 0.16                                     | 400   |
| Crocker Well                     | Mineral Resources                          | 0.51                                     | 6 338   |
| Warrior                          | Mineral Resources                          | 0.034                                    | 4 000   |
| <b>Total for South Australia</b> |  |  | <b>1 545 487</b>                                    |

## Queensland

| DEPOSIT                     | RESERVES /<br>RESOURCES <sup>(a)</sup> <sup>(b)</sup> | GRADE<br>% U <sub>3</sub> O <sub>8</sub> | CONTAINED U <sub>3</sub> O <sub>8</sub><br>(Tonnes) |
|-----------------------------|---|--|---|
| <i>Mount Isa Region</i>     |   |  |   |
| <b>Valhalla</b>             | <b>Mineral Resources</b>                              | <b>0.125</b>                             | <b>25 600</b>                                       |
| Skal                        | Mineral Resources                                     | 0.119                                    | 5 000   |
| Andersons Lode              | Mineral Resources                                     | 0.143                                    | 6 500   |
| Mirrioola                   | Mineral Resources                                     | 0.112                                    | 241   |
| Warwai                      | Mineral Resources                                     | 0.12                                     | 120   |
| Bikini                      | Mineral Resources                                     | 0.139                                    | 240   |
| Watta                       | Mineral Resources                                     | 0.45                                     | 1 900   |
| Highlander                  | Mineral Resources                                     |  | 90  |
| Other small deposits        | Combined Resources                                    |  | 34  |
| <i>Mary Kathleen Region</i> |   |  |   |
| Mary Kathleen               | Mineral Resources                                     |  | 1 200   |
| <i>Georgetown Region</i>    |   |  |   |
| Maureen                     | Mineral Resources                                     | 0.123                                    | 2 940   |
| Trident                     | Mineral Resources                                     | 0.22                                     | 495   |
| Twogee                      | Mineral Resources                                     | 0.12                                     | 755   |
| Fourgeo                     | Mineral Resources                                     | 0.077                                    | 1 171   |
| Oasis, Gecko, Sybnac        | Combined Resources                                    |  | 171   |
| <i>Westmoreland</i>         |   |  |   |
| Redtree, Junnagunna         |   |  |   |
| Huarabagoo, Sue and Outcamp | Mineral Resources                                     | 0.13                                     | 22 520  |
| <i>Hervey Ranges</i>        |   |  |   |
| Ben Lomond                  | Mineral Resources                                     | 0.246                                    | 4 758   |
| <b>Total for Queensland</b> |   |  | <b>73 735</b>                                       |

## Western Australia

| DEPOSIT  | RESERVES /<br>RESOURCES <sup>(a)</sup> <sup>(b)</sup> | GRADE<br>% U <sub>3</sub> O <sub>8</sub> | CONTAINED U <sub>3</sub> O <sub>8</sub><br>(Tonnes) |
|--|---|--|---|
| <i>Paterson Province</i>                             |   |  |   |
| <b>Kintyre</b>                                       | <b>Mineral Resources</b>                              | <b>0.15–0.4</b>                          | <b>36 000</b>                                       |
| <i>Canning Basin</i>                                 |   |  |   |
| Oobagooma  | Mineral Resources<br>(recoverable)                    |  | 5 000   |
| <i>Yilgarn Craton – Calcrete Deposits</i>            |   |  |   |
| <b>Yeelirrie</b>                                     | <b>Ore Reserves</b>                                   | <b>0.15</b>                              | <b>52 500</b>                                       |
| Centipede (includes<br>Abercrombie and<br>Millipede) | Mineral Resources                                     | 0.063                                    | 4 400   |
| Lake Austin  | Mineral Resources                                     | 0.08                                     | 151   |
| Lake Maitland (Mt Joel)                              | Mineral Resources                                     | 0.052                                    | 7 900   |
| Lake Raeside   | Mineral Resources                                     | 0.025                                    | 1 700   |
| Lake Way   | Mineral Resources                                     |  | 4 000   |
| Nowthana   | Mineral Resources                                     | 0.086                                    | 2 023   |
| Thatchers Soak                                       | Mineral Resources                                     | 0.03                                     | 4 100   |
| Lake Mason   | Mineral Resources                                     | 0.035                                    | 2 700   |
| <i>Carnarvon Basin</i>                               |   |  |   |
| Manyingee  | Mineral Resources                                     | 0.09                                     | 12 078  |
| Bennets Well   | Mineral Resources                                     | 0.16                                     | 1 500   |
| <i>Eucla Basin</i>                                   |   |  |   |
| Mulga Rock   | Mineral Resources                                     | 0.14                                     | 15 330  |
| <b>Total for Western Australia</b>                   |   |  | <b>149 382</b>                                      |
| <b>TOTAL FOR AUSTRALIA</b>                           |   |  | <b>2 070 544</b>                                    |

Notes:

- (a) Mineral Resources are in addition to Ore Reserves (i.e. Mineral Resource figures are exclusive of those resources which have been modified to produce Ore Reserves).
- (b) Mineral Resource figures are the sum of resources in the measured, indicated and inferred categories.
- (c) As at 30 June 2005.
- (d) As at 30 June 2005.

Definitions of Ore Reserves and Mineral Resources are provided in chapter three of the report and in the glossary.