## Appendix 3 – Text provided by the Australian Bureau of Statistics

## Conversion of Australian Bureau of Statistics (ABS) Population Projections to Enrolment Projections

The Australian Bureau of Statistics (ABS) have calculated projections of the population of Australian residents aged 18 years and over for each Statistical Area 1 (SA1) starting with a base at 30 June 2013 annually through to 30 June 2020. To allow baseline comparison with latest electoral roll counts, interpolation was used to derive 1 December 2014 population. The 28 July 2019 population projections were also calculated by interpolating between 30 June figures.

For most SA1s it was assumed that the proportional relationship between electoral enrolments and resident population aged 18 and over will continue. Accordingly, the population projections were converted to enrolment projections as follows:

```
P2014 = ABS projection of residents aged 18 and over at 1 December 2014
P2019 = ABS projection of residents aged 18 and over at 28 July 2019
```

E<sub>2014</sub> = Enrolled persons at 1 December 2014 E<sub>2019</sub> = Projected enrolled persons at 28 July 2019

 $E_{2019} = (E_{2014}/P_{2014}) * P_{2019}$ 

For example, a Statistical Area 1's figures may be:

```
P2014 = 479
P2019 = 493
E2014 = 363
E2019 = (363 / 479) * 493
```

Some SA1s with very high growth have low enrolment to population ratios due to lags in occupancy and/or change in enrolment address. These ratios were adjusted upwards as the lags work out over time, adjusting to the degree necessary to maintain the overall Territory enrolment ratio.

Where a SA1 crosses existing electoral boundaries, the projected enrolment has been allocated to electoral divisions in the same proportion as current enrolments.

In a minority of SA1s where enrolments were greater than the baseline population projection, it was assumed that electoral enrolments will grow by the same amount as the population of Australian residents aged 18 and over, ie:

```
E_{2019} = E_{2014} + (P_{2019} - P_{2014})
```

For example, a Statistical Area 1's figures may be:

```
P_{2014} = 1,125
P_{2019} = 1,390
E_{2014} = 1,192
E_{2019} = 1,192 + (1,390-1,125)
= 1,457
```

Thereafter the Redistribution Committee may amend the enrolment projections for certain SA1s based on specific local knowledge of the area.

The SA1 is a relatively new geographic unit and AEC have undertaken a conversion process to code the electoral roll to the SA1 as a replacement unit for the CCD.