

4 RESULTS

4.1 Outdoor Child Play

The childcare development will host up to 106 children. It is noted play time is generally staggered and therefore not all children would be playing outside at once for extended periods of time. However, noise levels were conservatively predicted for all children playing, as a worst-case scenario.

Table 4-1 presents the predicted noise levels at each receiver, noting the predicted noise levels are from child play only i.e. mechanical plant noise is not included. Figure 4-1 also shows the predicted noise levels as noise contour maps at ground level (1.5 metres AGL).

Table 4-1 Predicted Noise Levels of Child Play, dB LA10

Receiver	60 Kindy (3+)	30 Toddlers (2-3)	16 Babies (0-2)	Total Combined
1. Byford Secondary College	49	40	21	49
2. 57 Velvetene Road	42	44	35	46
3. Byford John Calvin School	28	26	39	40
4. 11B Marchant Way	37	24	21	37
5. 37B Gordin Way	36	23	17	37
6. Future Res South (Marchant Way)	31	27	22	33
7. Future Res South (Gordin Way)	45	23	9	45

It is evident that the worst case scenario of all 60 kindy aged children playing the western yard area results in a high level of noise at Byford Secondary College (in the area facing the school's car park). While these levels indicate the conservative potential outcome, in reality noise levels would be lower on average with reduced numbers (staggered play times) and with periods of passive play.

