

CALDECOTE FARM

NEWPORT PAGNELL · MILTON KEYNES

APPENDIX 9

ENVIRONMENTAL STATEMENT

NOISE AND VIBRATION

APPENDIX 9.5

**OPERATIONAL NOISE PREDICTIONS
AND ASSESSMENT**

Appendix 9.5 Operational Sound from Development Site (HGVs) Prediction and Assessment

Table 1 – Predicted Operational Sound from Development Site and Assessment – Daytime

Receptor	Specific Operational Noise Level (L _{Aeq,1hr} dB)	Acoustic Feature Correction (dB)	Rating Level (L _{Ar, 1hr} dB)	Main Assessment		Sensitivity Test Assessment	
				Background Sound Level (L _{A90,15mins} dB)	Rating Level – Background Sound Level	Background Sound Level (L _{A90,15mins} dB)	Rating Level – background level
R1 Tabard Gardens GF	30	0	30	64	-34	56	-26
R6 Dolben Court GF	25	0	25	59	-34	-	-
R7 Traveller Site GF	38	0	38	62	-24	-	-
R8 Glenfield 1 GF	44	0	44	58	-14	-	-
R9 Glenfield 2 GF	46	0	46	58	-12	-	-
R10 Proposed Resi 1 GF	47	0	47	58	-11	-	-
R11 Proposed Resi 2 GF	50	0	50	58	-8	-	-

Table 2 Predicted Operational Sound from Development Site and Assessment – Night-time

Receptor	Specific Operational Noise Level (L _{Aeq,15min} dB)	Acoustic Feature Correction (dB)	Rating Level (L _{Ar, 15min} dB)	Main Assessment		Sensitivity Test Assessment	
				Background Sound Level (L _{A90,15mins} dB)	Rating Level – Background Sound Level	Background Sound Level (L _{A90,15mins} dB)	Rating Level – Background Sound Level
R1 Tabard Gardens FF	29	0	29	53	-24	-	-
R6 Dolben Court FF	26	0	26	52	-26	-	-
R7 Traveller Site GF	37	0	37	55	-18	-	-
R8 Glenfield 1 FF	43	0	43	54	-11	50	-7
R9 Glenfield 2 FF	46	0	46	54	-8	50	-4
R10 Proposed Resi 1 FF	46	0	46	54	-8	50	-4
R11 Proposed Resi 2 FF	48	+3	51	54	-3	50	+1

Table 3 Predicted Maximum Noise Levels, L_{Amax}

Receptor	Predicted Maximum Noise Level from operational activities (L _{Amax} dB) at the façade
R1 Tabard Gardens FF	39
R6 Dolben Court FF	41
R7 Traveller Site GF	56
R8 Glenfield 1 FF	57
R9 Glenfield 2 FF	60
R10 Proposed Resi 1 FF	59
R11 Proposed Resi 2 FF	60