

**APPENDIX F NOISE AND VIBRATION****APPENDIX F I NOISE TERMINOLOGY**

**dB(A)** a logarithmic noise scale (decibel). The "A" indicates that a frequency weighting has been applied to take account of the variation in the sensitivity of the human ear as a function of frequency.

**L<sub>Aeq</sub>** the average noise level during the measurement period, which includes all noise events. The L<sub>Aeq</sub> value has been found to correlate well with human tolerance of noise, and is the value normally used in setting and monitoring industrial noise limits. All noise levels in this report are L<sub>Aeq,1hr</sub> parameters unless otherwise indicated.

**L<sub>A90</sub>** the noise level exceeded for 90% of the time. It is used in BS 4142 as being representative of the steady background noise at a location. It tends to exclude short events such as cars passing, dogs barking, aircraft flyovers etc.

**L<sub>A10</sub>** the noise level exceeded for 10% of the time. It is a measure of the higher noise levels present in the ambient noise. The L<sub>A10</sub> parameter is used in the U.K. traffic noise model (CRTN)

**L<sub>den</sub>** Day, evening, night noise level. This is the standardised EU environmental parameter. It is a 24 hour average (L<sub>eq</sub>), with a penalty of 5 dB added for noise generated in the evening period, and a penalty of 10 dB added for noise generated at nighttime.

**Total Noise Level (also termed Ambient Noise Level)**

The total noise level due to all noise sources.

**Specific Noise Level**

A component of the ambient noise that can be attributed to a specific source

**Appendix F2      Noise Surveys**

**Date/Weather:** 16<sup>th</sup> May 2006, Dry with a light breeze  
 17<sup>th</sup> May 2006, Overcast with a light to moderate breeze until 11:00hrs.  
 Intermittent rain until 12:30. Heavy rain from 12:30 onwards.

**Instrumentation:** CEL 420 (Type I) Sound Level Meter calibrated before and after with a Bruel & Kjaer 4231 Calibrator.

Location	Date	Time	L <sub>Aeq</sub>	L <sub>A90</sub>	L <sub>A10</sub>	Comments
The Maltings (opposite number 37)	16/05/06	17:49	52	45	51	Distant traffic, birds, 2 cars passed by during measurement period.
	17/05/06	12:22	49	45	60	Distant traffic, heavy rain falling
	<b>Mean</b>		<b>50</b>	<b>45</b>	<b>56</b>	
St. Bridgids Terrace (opposite number 11)	16/05/06	18:26	61	46	65	Traffic passing intermittently, voices, distant traffic at lulls.
	17/05/06	10:13	60	45	61	Intermittent local and distant traffic, voices
	17/05/06	12:50	61	51	65	Intermittent traffic, heavy rain, wind picking up
	<b>Mean</b>		<b>61</b>	<b>47</b>	<b>64</b>	
Seapoint Court (opposite number 23)	17/05/06	09:00	47	40	49	Distant traffic, trains passing
	17/05/06	11:53	48	43	51	Traffic noise, rain falling
	<b>Mean</b>		<b>48</b>	<b>42</b>	<b>50</b>	
Coburg (opposite house number 10)	17/05/06	09:28	52	48	55	Distant traffic, traffic from Dargle road
	17/05/06	10:37	51	46	53	Distant traffic, traffic from Dargle road, some construction noise
	17/05/06	13:10	54	51	57	Traffic from Dargle Road
	<b>Mean</b>		<b>52</b>	<b>48</b>	<b>55</b>	
Killarney Glen	17/05/06	13:49	50	47	52	Distant traffic, trees blowing in wind
10m from Dargle Road	17/05/06	09:53	61	56	64	Traffic noise
	17/05/06	10:59	59	54	63	Traffic noise
	17/05/06	13:25	64	58	67	Traffic noise
	<b>Mean</b>		<b>61</b>	<b>56</b>	<b>65</b>	