

Dublin City Council

Comhairle Cathrach Bhaile Átha Cliath

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13 March, 2007

Dr. Mary Kelly,
Director,
Environmental Protection Agency,
P O Box 3000,
Johnstown Castle Estate,
Co. Wexford.

**Re: Waste to Energy Facility at Pigeon House Road, Poolbeg Peninsula,
Dublin 4**

Dear Sir/Madam

In accordance with Section 175(5)(b) of the Planning and Development Act, 2000, notice is hereby given that further information in relation to the proposed Waste to Energy Facility at Pigeon House Road, Poolbeg Peninsula, Dublin 4, which is currently the subject of an application for approval to An Bord Pleanála under Sections 175 and 226 of the Planning and Development Act, 2000 has been submitted to An Bord Pleanála by Dublin City Council on behalf of the four Dublin Local Authorities.

Such further information contains additional data relating to:

- The likely effects on the environment of the proposed development, and
- The likely consequences for proper planning and sustainable development in the area in which it is proposed to situate the said development of such a development,

The further information submitted to An Bord Pleanála relates to the following documents/CD's:

- Document entitled "*Traffic Noise Impact Assessment*" and two CD's entitled "Visualisation of the Dublin Waste to Energy Facility" and "Selected Materials from the Public Domain, Dublin Waste to Energy Project".

The two CD's comprising the additional information outlined above were previously available for inspection by the public at Dublin City Council, Customer Care Centre, Civic Offices, Wood Quay with the EIS during the public inspection period, Monday 3rd of July 2006 to Monday 2nd of October 2006.

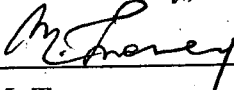
The document entitled "Traffic Noise Impact Assessment" which is referred to as Appendix 9.3 in the EIS is deemed by the Board to contain significant additional data relating to the likely effects of the development on the environment and on the proper planning and sustainable development of the area.

Please find enclosed a copy of all further information outlined above. You are invited to make submissions or observations in writing to An Bord Pleanála, 64 Marlborough Street, Dublin 1 in relation to the additional information provided and specifically as regards

- The likely effects on the environment of the proposed development, and
- The implications of the proposed development for proper planning and sustainable development in the area concerned, if this development is carried out,

The closing date by which all observations and submissions must be received by An Bord Pleanála is 5.30 pm on Thursday 5th of April 2007.

Yours sincerely,



M. Twomey
Assistant City Manager

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Dublin City Council
Comhairle Cathrach Bhaile Átha Cliath



South Dublin
County Council

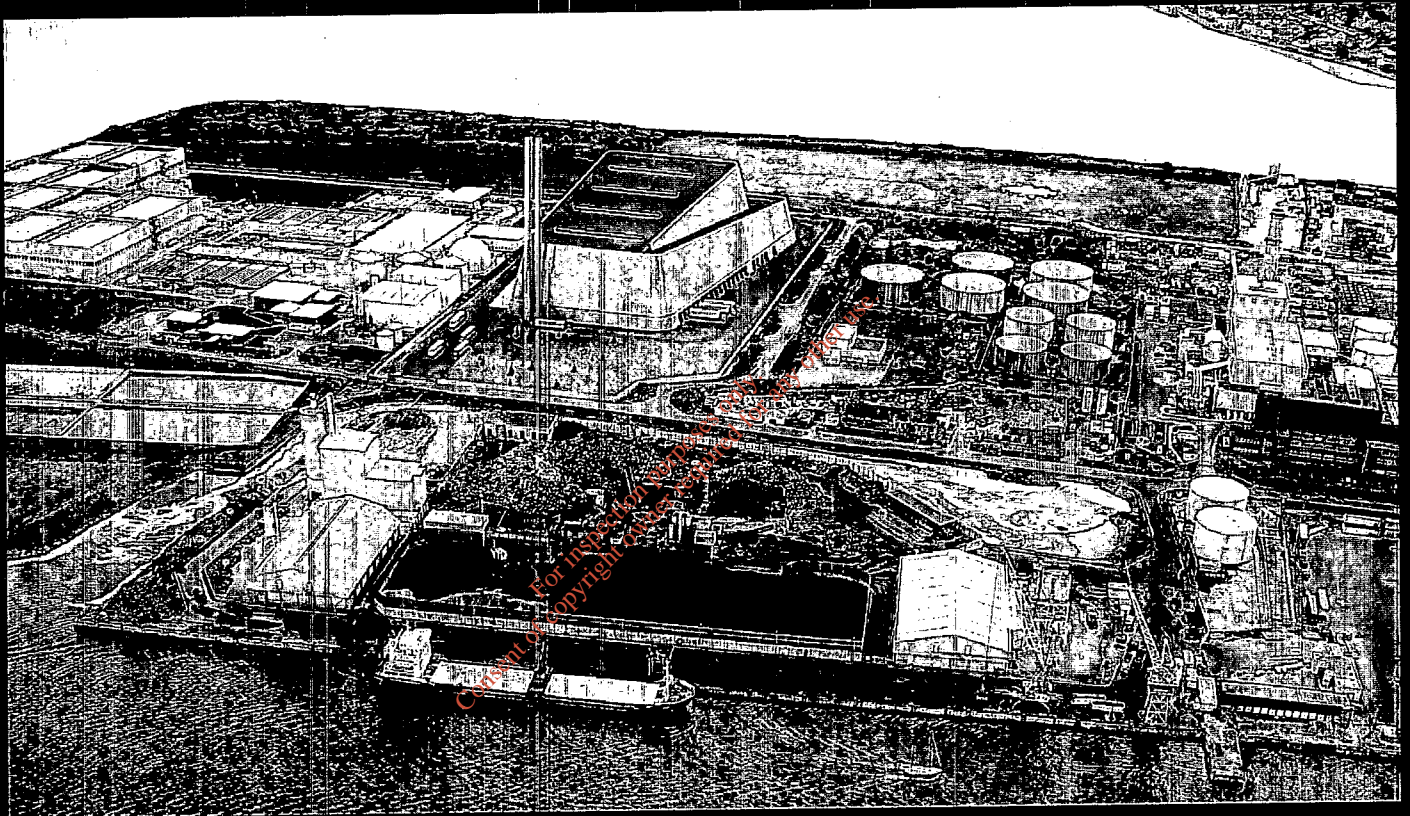


Dún Laoghaire-Rathdown
County Council Comhairle Contae
Dhún Laoghaire-Ráth an Dúin



Fingal County Council
Comhairle Contae Fhine Gall

DUBLIN WASTE TO ENERGY PROJECT



TRAFFIC NOISE IMPACT ASSESSMENT

www.DUBLINWASTETOENERGY.IE

June 2006



NATIONAL DEVELOPMENT PLAN

TECHNICAL REPORT

**TRAFFIC NOISE IMPACT ASSESSMENT
DUBLIN WASTE TO ENERGY FACILITY**

FOR

**RPS Consulting Engineers
Carnegie House
Library Road
Dun Laoghaire
Co Dublin**

Report prepared by: **Damian Kelly** BSc (Hons) MSc MIOA
Our reference: DK/06/3098NR01
Date: 8 June 2006

EXECUTIVE SUMMARY

AWN Consulting Ltd has been commissioned by RPS Consulting Engineers to carry out an assessment of the impact of increases in traffic on roads in the vicinity of the proposed Dublin Waste to Energy (WTE) facility at Poolbeg, Dublin 4.

Subjective ratings and impacts for the assessment of increases in road traffic noise during the operational phase associated with the proposed development have been identified.

Survey work carried out in 2004 has been reviewed. Additional 'snap shot' surveys have been completed in 2006 in order to confirm the findings of the 2004 work. This survey work has reaffirmed the fact road traffic is the dominant source of noise in the area and that levels monitored in 2006 are comparable to those reported in 2004.


Predicted increases in traffic noise levels on Southbank Road, Sean Moore Road, the East Link Bridge, East Wall Road and North Wall Quay have been presented for the opening year (2012) and the design year (2027) of the proposed Dublin WTE development. Predicted increases in traffic noise levels are imperceptible in all instances assessed.

A survey of vibration levels has previously been carried out at six locations in the vicinity of the site. Analysis of the vibration data suggests that existing levels of vibration are not sufficient in magnitude to cause concern. It may be concluded that additional traffic associated with the proposed development is not expected to give rise to vibration that is either significantly intrusive or capable of giving rise to structural or even cosmetic damage.

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Report Prepared By:

Report Checked By:



DAMIAN KELLY
Principal Acoustic Consultant



TERRY DONNELLY
Senior Acoustic Consultant

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1.0 INTRODUCTION

AWN Consulting Ltd has been commissioned by RPS Consulting Engineers to carry out an assessment of the impact of increases in traffic on roads in the vicinity of the proposed Dublin Waste to Energy (WTE) facility at Poolbeg, Dublin 4.

The proposed Facility includes the development of a thermal treatment plant with the capacity to treat up to 600,000 tonnes of non-hazardous municipal waste per annum.

The following methodology has been adopted.

- Review of detailed baseline noise and vibration levels as presented in our Technical Report Ref: AI/03/1804NR01a.
- Review of additional 'snap shot' survey work in order to confirm the validity of the detailed monitoring work carried out in 2004.
- Assessment of potential noise impact associated with proposed construction traffic on the local road network.
- Assessment of any increase in noise level associated with traffic changes related to the development in the opening year of operation (i.e. 2012) and the design year (i.e. 2027).

The site of interest is some 5.5 hectares and is bounded to the north by Pigeon House Road, to the south by Irishtown Nature Park, to the east by a waste water treatment plant to the east and to the west by Shellybanks Road and the ESB Combined Cycle Gas Turbine Power Plant. The assessment outlined in this document relates to the following roads in the vicinity of the proposed development:

- Southbank Road;
- Sean Moore Road;
- East Link Bridge;
- East Wall Road;
- North Wall Quay.

2.0 IMPACT RATING OF TRAFFIC NOISE INCREASES

Given that vehicle movements on public roads are typically assessed using the ten percentile noise level; L_{A10} , it is appropriate to consider the increase in traffic noise level that arises as a result of vehicular movements associated with the development in terms of the L_{A10} parameter.

In order to assist with the interpretation of the noise associated with vehicular traffic on public roads, Table 1 offers guidance as to the likely impact associated with any particular change in traffic noise level.

Change in Sound Level (dB L_{A10})	Subjective Reaction	Impact
< 3	Inaudible	Imperceptible
3 – 5	Perceptible	Slight
6 – 10	Up to a doubling of loudness	Moderate
11 – 15	Over a doubling of loudness	Significant
> 15		Profound

Table 1 Likely impact associated with change in traffic noise level

Ground vibration from additional traffic due to the development under consideration would be expected to be orders of magnitude less than that required to cause cosmetic or structural damage to buildings or lead to disturbance of occupiers.

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3.0 BASELINE SURVEY COMMENTARY

The major baseline survey work carried out in 2004 is reviewed in the Section 3.1. Additional 'snap shot' surveys have been carried out in 2006 in order to confirm that no significant change has occurred in the noise environment in the area of interest since the initial survey programme.

3.1 2004 Survey Programme

Baseline noise monitoring has been undertaken at a number of locations in the vicinity of the proposed waste to energy plant in Ringsend, Dublin 2. The surveys were conducted generally in accordance with ISO 1996: 1982: *Acoustics – Description and measurement of environmental noise*. The full text of the 2004 report is provided, for information purposes, in Appendix A of this report.

Figure 1 of this report illustrates the approximate location of the survey locations used in the 2004 survey programme.

The range of average results for the continuous noise monitoring are summarised in the Table 2 below. The table includes the three main descriptors of environmental noise.

L_{Aeq} is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period.

L_{A10} is the sound level that is exceeded for 10% of the sample period. It is typically used as a descriptor for traffic noise.

L_{A90} is the sound level that is exceeded for 90% of the sample period. It is typically used as a descriptor for background noise.

The "A" suffix denotes the fact that the sound levels have been "A-weighted" in order to account for the non-linear nature of human hearing. All sound levels in this report are expressed in terms of decibels (dB) relative to 2×10^{-5} Pa.

In summary, the results of the traffic noise surveys (i.e. at Locations i, ii, iii) indicate that traffic noise levels were very similar at the three measurement locations. The derived $L_{A10(18\text{hour})}$ noise levels at all three locations were in the range 67 to 71dB. This is consistent with traffic noise levels expected at the measurement locations, i.e. in close proximity to busy local roads.

Location	Period	Measured Noise Levels (dB re. 2×10^{-5} Pa)	
		L _{Aeq}	L _{A90}
A	Day	50 to 59	43 to 47
	Night	48 to 60	38 to 42
B	Day	62 to 65	53 to 58
	Night	59 to 60	45 to 49
C	Day	59 to 62	49 to 55
	Night	55 to 58	39 to 46

Table 2 Review of 2004 Noise Monitoring Data

The noise levels measured at Locations A, B and C is typical of what is expected for the environments under consideration. Locations B and C are located adjacent to busy roads and this results in higher measured levels when compared to Location A that is not located adjacent to any busy roads.

3.2 2006 Survey Programme

Additional environmental noise surveys were conducted in order to confirm the data obtained during the 2004 survey programme. As previously, these surveys were conducted generally in accordance with ISO 1996: 1982: *Acoustics – Description and measurement of environmental noise*. Specific details are set out below.

3.2.1 Choice of Measurement Locations

Measurement locations were equivalent to those adopted in the initial monitoring survey. Where access was restricted to these locations, a nearby location with a similar noise environment was assessed.

3.2.2 Survey Periods

Measurements were conducted over the course of a daytime periods as follows:

- 13:50hrs to 17:15hrs on 06/06/06;
- 10:00hrs to 13:30hrs on 07/06/06.

The weather throughout the survey periods was calm and dry. Temperatures were in the range 18°C to 24°C.

3.2.3 Personnel and Instrumentation

Dominic Parkinson (AWN) conducted the noise level measurements.

The measurements were performed using a Brüel & Kjær Type 2238 Investigator Sound Level Meter. Before and after the survey the measurement apparatus was check calibrated using a Brüel & Kjær Type 4231 Sound Level Calibrator.

3.2.4 Procedure

Noise measurements were conducted at three different measurement locations on a cyclical basis of 10 minute sample periods. The results were saved to the instrument memory for later analysis. Survey personnel noted all primary noise sources contributing to noise build-up.

2.6 Results

The results of measurements at traffic noise monitoring locations i, ii and iii are summarised in Table 3.

Location	Time	Measured Levels (dB re. 2×10^{-5} Pa)			2006 Derived dB $L_{A10(18\text{hour})}^1$	2004 Derived dB $L_{A10(18\text{hour})}$
		L_{Aeq}	L_{A10}	L_{A90}		
i	10:00 – 10:10	65	68	59	67	67 – 71
	11:30 – 11:40	65	68	58		
	12:30 – 12:45	65	68	58		
ii	10:50 – 11:00	69	73	61	72	67 – 71
	12:00 – 12:10	69	73	59		
	13:00 – 13:10	70	73	60		
iii	11:10 – 11:20	69	73	52	72	68 – 71
	12:15 – 12:25	68	72	51		
	13:15 – 13:25	70	73	55		

Table 3 Summary of 'Snap Shot' Noise Survey and Comparison to 2004 Results.

Measured, and associated derived $L_{A10(18\text{hour})}$ 2006 noise levels are comparable to those measured in 2004.

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¹ The derived $L_{A10(18\text{hour})}$ for the location is derived by subtracting 1dB from the arithmetic average of the three hourly sample values, i.e. $L_{A10(18\text{hour})} = ((\sum L_{A10(1\text{hour})}) \div 3) - 1$ dB.

4.0 NOISE CALCULATION TECHNICAL DATA

4.1 Noise Calculation

A computer-based prediction module has been prepared in order to quantify the increase in traffic noise level associated with the operational phase of the proposed development. This section discusses the methodology behind the noise prediction process.

4.2 Calculation Template

Proprietary noise calculation software was used for the purposes of this impact assessment. Calculation of traffic noise levels have been prepared in accordance with Calculation of Road Traffic Noise² (CRTN) guidance. In general, however, the resultant noise level is calculated taking into account a range of factors affecting the propagation of sound, including:

- the magnitude of the noise source in terms of sound power or traffic flow and average velocity;
- the distance between the source and receiver³;
- the presence of obstacles such as screens or barriers in the propagation path;
- the presence of reflecting surfaces;
- the hardness of the ground between the source and receiver.

4.3 Prediction of Traffic Noise

Noise emissions during the operational phase of the project have been modeled in accordance with CRTN. The CRTN method of predicting noise from a road consists of the following five elements:

- divide the road scheme into segments so that the variation of noise within this segment is small;
- calculate the basic noise level at a reference distance of 10 metres from the nearside carriageway edge for each segment;
- assess for each segment the noise level at the reception point taking into account distance attenuation and screening of the source line;
- correct the noise level at the reception point to take account of site layout features including reflections from buildings and facades, and the size of source segment;
- combine the contributions from all segments to give the predicted noise level at the receiver location for the whole road scheme.

Note that all calculations are performed to one decimal place.

4.4 Input to the Noise Calculation

The noise model was prepared using the following data:

- traffic flow data supplied by ILTP Consulting;
- traffic speeds as advised by the RPS Consulting Engineers or, where these are not available, as set out in paragraph 14.2 of CRTN.

² Calculation of Road Traffic Noise (CRTN), Department of Transport Welsh Office, HMSO, 1988.

³ In all instances presented in this report predictions have been prepared to a reference distance of 10m.

5.0 PREDICTED INCREASES IN TRAFFIC NOISE

The predicted increases in traffic noise associated with both the construction and operational phases of the proposed development are presented in the following sections.

5.1 Construction Phase

The volumes of traffic generated by the proposed scheme during construction are relatively low in comparison to existing traffic volumes on the local network, hence they are not expected to give rise to any significant increase in traffic noise levels along national and regional roads.

5.2 Operational Phase

Table 3 details the predicted increases in noise levels along routes in the vicinity of the Dublin WTE development for the opening year 2012.

Route	Do Nothing (2012)		Do Something (2012)		Change in Noise Level (dB)
	AADT (Light)	AADT (HGV)	AADT (Light)	AADT (HGV)	
Southbank Road	8,191	2,365	8,191	2,607	+0.3
Sean Moore Road	24,200	0	24,200	50	+0.1
East Link Bridge	18,166	5,521	18,166	5,713	+0.1
East Wall Road	33,976	8,187	33,976	8,354	+0.1
North Wall Quay	8,267	398	8,267	423	+0.1

Table 3 Predicted Increase in Traffic Noise Level – Opening Year 2012

The predicted increase in noise levels due to additional vehicular traffic on the assessed roads for the opening year of 2012 are 0.3dB(A) or less and would therefore be imperceptible.

Table 4 details the predicted increases in noise levels along routes in the vicinity of the Dublin WTE development for the design year 2027.

Route	Do Nothing (2027)		Do Something (2027)		Change in Noise Level (dB)
	AADT (Light)	AADT (HGV)	AADT (Light)	AADT (HGV)	
Southbank Road	22,715	2,713	22,715	2,955	+0.2
Sean Moore Road	31,489	0	31,489	50	+0.1
East Link Bridge	19,026	6,202	19,026	6,394	+0.1
East Wall Road	33,026	9,352	33,026	9,519	+0.1
North Wall Quay	3,735	364	3,735	389	+0.1

Table 4 Predicted Increase in Traffic Noise Level – Design Year 2027

The predicted increase in noise levels due to additional vehicular traffic on the assessed roads for the design year of 2027 are 0.2dB(A) or less and would therefore be imperceptible.

6.0 VIBRATION

This section deals with the potential for vibration during both construction and operational phases of the proposed development.

As a vehicle travels along a road, vibration can be generated in the road and subsequently propagate towards nearby buildings. Such vibration is generated by the interaction of a vehicle's wheels and the road surface and by direct transmission through the air of energy waves. Some of these waves arise as a function of the size, shape and speed of the vehicle, and others from pressure fluctuations due to engine, exhaust and other noises generated by the vehicle.

It has been found that ground vibrations produced by road traffic are unlikely to cause perceptible structural vibration in properties located near to well-maintained and smooth road surfaces. Problems attributable to road traffic vibration can therefore be largely avoided by maintenance of the road surface.

A survey of vibration levels was carried out at six locations in the vicinity of the site. The relevant sections of the report detailed in Appendix A detail all vibration monitoring data. Analysis of the vibration data suggests that existing levels of vibration are not sufficient in magnitude to cause concern.

Ground vibration from additional traffic due to the development under consideration would be expected to be orders of magnitude less than that required to cause cosmetic or structural damage to buildings or lead to disturbance of occupiers, hence mitigation measures are not required in respect of the operational phase.

It may be concluded that the proposed development is not expected to give rise to vibration that is either significantly intrusive or capable of giving rise to structural or even cosmetic damage.

7.0 DISCUSSION AND CONCLUSIONS

Additional baseline noise surveys have been completed and confirm that existing traffic noise levels are comparable to those reviewed in detail in the initial noise and vibration monitoring report prepared in relation to this project. Traffic movements on local roads are the dominant source of noise in the area.

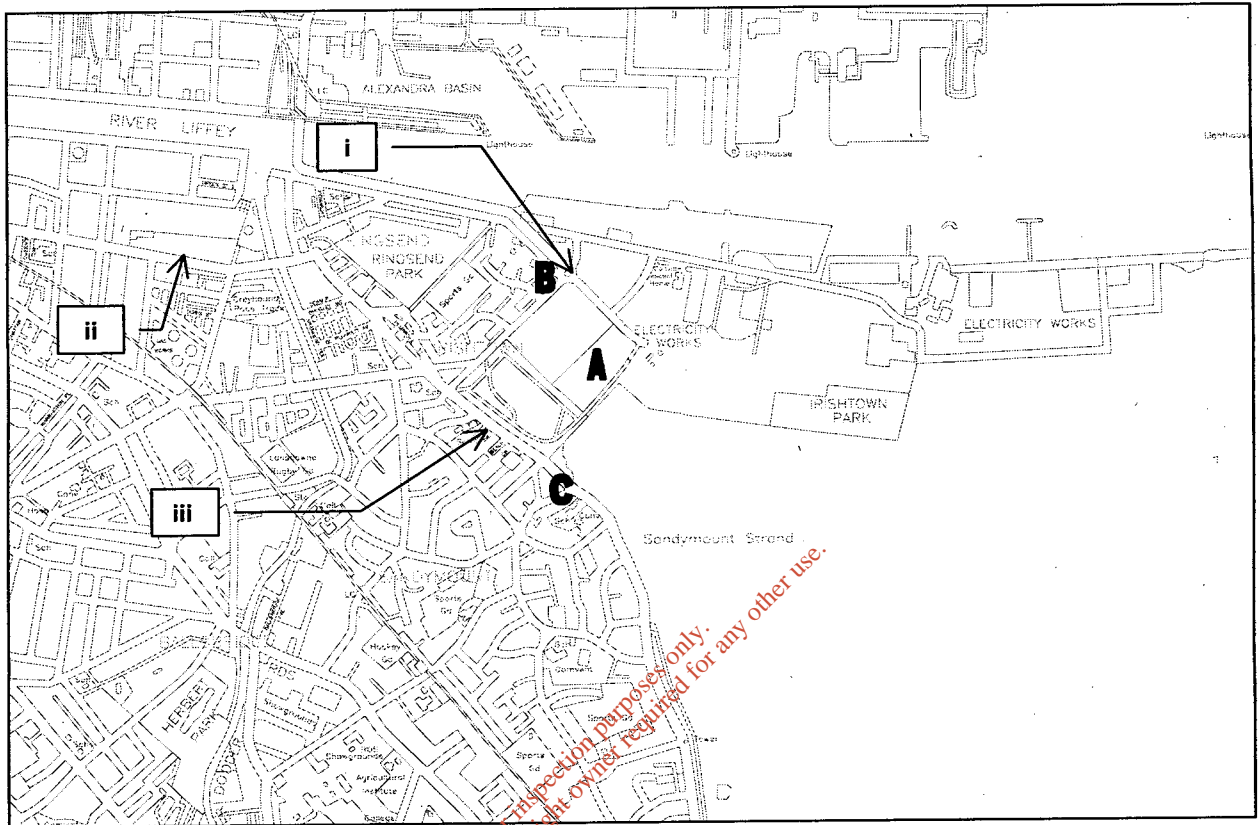
Increases in traffic noise levels have been presented based on the contents a detailed traffic report prepared by ILPT Consulting. This assessment has been carried out for both the opening year (2012) and design year (2027) associated with the proposed Dublin WTE development. Consideration has been given to increase in traffic volumes on Southbank Road, Sean Moore Road, the East Link Bridge, East Wall Road and North Wall Quay.

Predicted increases in traffic noise levels are imperceptible in all instances assessed.

A survey of vibration levels was carried out at six locations in the vicinity of the site. The relevant sections of the report detailed in Appendix A detail all vibration monitoring data. Analysis of the vibration data suggests that existing levels of vibration are not sufficient in magnitude to cause concern. It may be concluded that the proposed development is not expected to give rise to vibration that is either significantly intrusive or capable of giving rise to structural or even cosmetic damage.

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FIGURE 1
SITE MAP SHOWING MONITORING LOCATIONS



APPENDIX A

2004 TECHNICAL REPORT REF: AI/03/1804NR01

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TECHNICAL REPORT

**BASELINE NOISE & VIBRATION MONITORING IN
RELATION TO PROPOSED THERMAL TREATMENT
PLANT, RINGSEND, CO. DUBLIN**

FOR

**RRS - MCOS
Consulting Engineers
Carnegie House
Library Road
Dun Laoghaire
Co. Dublin**

Report prepared by: **Andy Irwin**, BSc (Hons), MIOA
Our reference: AI/03/1804NR01a
Date: 27 May 2004

EXECUTIVE SUMMARY

Baseline noise monitoring has been undertaken at a number of locations in the vicinity of the proposed waste to energy plant in Ringsend, Dublin 2. The surveys were conducted generally in accordance with ISO 1996: 1982: *Acoustics – Description and measurement of environmental noise*. The details of the baseline monitoring conducted are detailed in the various sections and appendices of this report.

In summary, the results of the traffic noise surveys indicate that traffic noise levels were very similar at the three measurement locations. The derived $L_{A10(18\text{hour})}$ noise levels at all three locations were in the range 67 to 71dB. This is consistent with traffic noise levels expected at the measurement locations, i.e. in close proximity to busy local roads.

The range of average results for Phase 1 and 2 of the continuous noise monitoring are summarised in the table below. The table includes the two main descriptors of environmental noise: L_{Aeq} is representative of the average ambient noise level and L_{A90} is representative of the background noise level.

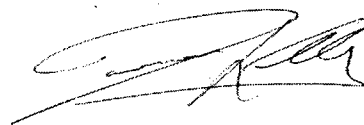
Location	Period	Measured Noise Levels (dB re. 2×10^{-5} Pa)	
		L_{Aeq}	L_{A90}
A	Day	50 to 59	43 to 47
	Night	48 to 60	38 to 42
B	Day	62 to 65	53 to 58
	Night	59 to 60	45 to 49
C	Day	59 to 62	49 to 55
	Night	55 to 58	39 to 46

The noise levels measured at Locations A, B and C is typical of what is expected for the environments under consideration. Locations B and C are located adjacent to busy roads and this results in higher measured levels when compared to Location A that is not located adjacent to any busy roads.



ANDY IRWIN

Senior Acoustic Consultant



DAMIAN KELLY

Senior Acoustic Consultant

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4.0 VIBRATION MONITORING REVIEW

Figure 1 – Site Map showing Measurement Locations

Figure 2 – Photos showing Measurement Locations

Appendix A Location A Continuous Monitoring Data

Appendix B Location B Continuous Monitoring Data

Appendix C Location C Continuous Monitoring Data

Appendix D Vibration Monitoring Data

Appendix E Database Review

1.0 INTRODUCTION

AWN Consulting Limited has been commissioned by RPS – MCOS to conduct noise and vibration measurements at selected locations in the vicinity of the proposed waste to energy plant at Ringsend, Dublin 2.

The main purpose of this body of work is in order to have a significant portion of baseline monitoring available for the preparation of the noise and vibration chapter to be included in the Environmental Impact Statement that will be prepared in relation to this project.

2.0 SURVEY PROCEDURE

Environmental noise surveys were conducted generally in accordance with ISO 1996: 1982: *Acoustics – Description and measurement of environmental noise*. Specific details are set out below.

2.1 Personnel and Instrumentation

Terry Donnelly, Brian Fitzpatrick, Andy Irwin, Mike Simms and Louis Smith⁴ (AWN Consulting Ltd) conducted the noise level measurements during the survey periods.

The measurements were performed using Brüel & Kjær Type 2260 and Type 2238 Sound Level Analysers. Before and after the surveys, the measurement apparatus was check calibrated using a Brüel & Kjær Type 4231 Sound Level Calibrator.

The continuous measurements were performed using a Brüel & Kjær Type 3592 Environmental Kit, a Larson Davis 812 SLM and Larson Davis 824 System.

⁴ In relation to identifying personnel involved in survey work the following abbreviations will be used. Terry Donnelly (TD), Brian Fitzpatrick (BF), Andy Irwin (AI), Mike Simms (MS) and Louis Smith (LS).

2.2 Sample Periods

During the noise surveys, the sound level meter was set to measure noise levels over consecutive 15-minute sample periods⁵. The survey personnel noted all primary noise sources contributing to noise build-up.

2.3 Measurement Parameters

The noise survey results are presented in terms of the following five parameters:

$L_{Aeq,T}$ is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T).

L_{Amax} is the instantaneous maximum sound level measured during the sample period.

L_{Amin} is the instantaneous minimum sound level measured during the sample period.

L_{A10} is the sound level that is exceeded for 10% of the sample period. It is typically used as a descriptor for traffic noise.

L_{A90} is the sound level that is exceeded for 90% of the sample period. It is typically used as a descriptor for background noise.

The "A" suffix denotes the fact that the sound levels have been "A-weighted" in order to account for the non-linear nature of human hearing. All sound levels in this report are expressed in terms of decibels (dB) relative to 2×10^{-5} Pa.

⁵ For the Phase 1 Continuous Monitoring at Location B, the sound level meter was set to measure noise levels over consecutive 1-hour sample periods.

3.0 NOISE MONITORING

Noise monitoring details and a review of the monitoring results are detailed in the following sections. Due to the volume of the monitored data this information is contained in detail in the relevant Appendices attached to this document.

3.1 Choice of Measurement Locations

Six measurement locations were chosen following discussions with RPS - MCOS. The locations were chosen in order to be representative of residential and/or commercial receptors whose operations may be sensitive to noise or vibration. The measurement positions are described below and their approximate locations are shown on Figure 1. Indicative photos showing several monitoring locations are given in Figure 2.

Location A is located on South Bank road, approximately three quarters of the way between the Sean Moore Road roundabout and the Roadstone plant. This is the approximate location of a proposed hotel development.

Location B is located within the grounds of the Irish Bottlers Plant, at the northern corner of the site near the pump house facing the roundabout on Sean Moore Road.

Location C is located at the front of the Rehab School, Beach Road, Sandymount. The equipment was located behind the 2-metre high wall between the School grounds and Beach Road. This location is representative of noise sensitive locations in the vicinity of the site.

Location i is located in the vicinity of the roundabout on Sean Moore Road. This location is representative of noise sensitive locations in the vicinity of the site.

Location ii is located at the corner of Bridge Street and Irishtown Bath Street, opposite the public library. This location is representative of noise sensitive locations in the vicinity of the site.

Location iii is located at the corner of Seafort Avenue and Beach Road. This location is representative of noise sensitive locations in the vicinity of the site.

3.2 Survey Periods

Baseline environmental noise surveys have been undertaken at monitoring Locations A, B and C. Surveys consisted of continuous monitoring over a 7-day period during Phase 1 of the monitoring programme (3 weeks of continuous monitoring in total). In conjunction with the continuous monitoring, short-term manned noise surveys were undertaken over a 3-hour period during the daytime, i.e. 07:00hrs to 19:00hrs, and a 3-hour period during the night-time, i.e. 23:00hrs to 07:00hrs (6 x three-hour surveys in total).

Baseline traffic noise surveys have been undertaken at monitoring Locations i, ii and iii in accordance with the "Shortened Measurement Procedure" as laid down in *Calculation of Road Traffic Noise* (Department of Transport Welsh Office). Two separate traffic noise surveys were undertaken during the summer months.

This scope of work was repeated for Phase 2 of the monitoring programme. Tables 1 and 2 detail the relevant information for the various noise survey periods undertaken for this monitoring assessment.

Location	Survey Type	Date & Time	Consultant
A	Continuous	12:00hrs 18 May to 12:00hrs 25 May 2004	–
	Short-term – Day	12:08hrs to 15:08hrs, 18 May 2004	BF
	Short-term - Night	00:00hrs to 03:00hrs, 19 May 2004	BF
B	Continuous	10:40hrs 31 July to 08:40hrs 6 Aug 2003	–
	Short-term – Day	10:43hrs to 13:44hrs, 31 July 2003	TD
	Short-term - Night	23:28hrs to 02:28hrs, 14 Oct 2003	LS
C	Continuous	12:55hrs 3 July to 23:40hrs 9 July 2003	–
	Short-term – Day	13:20hrs to 16:20hrs, 11 July 2003	TD
	Short-term - Night	23:13hrs to 01:58hrs, 10 July 2003	TD
i, ii, iii	Traffic noise	12:00hrs to 15:00hrs, 26 June 2003	AI
i, ii, iii	Traffic noise	13:35hrs to 16:35hrs, 30 July 2003	TD

Table 1 Details of Monitoring Periods Phase 1

Location	Survey Type	Date & Time	Consultant
A	Continuous	16:15hrs 15 Jan to 11:30hrs 22 Jan 2004	–
	Short-term – Day	10:19hrs to 13:19hrs, 20 January 2004	LS
	Short-term - Night	02:26hrs to 05:26hrs, 21 January 2004	LS
B	Continuous	15:15hrs 14 Jan to 18:35hrs 21 Jan 2004	–
	Short-term – Day	10:02hrs to 13:02hrs, 20 January 2004	BF
	Short-term - Night	02:15hrs to 05:17hrs, 21 January 2004	BF
C	Continuous	19:45hrs 3 Feb to 22:00hrs 10 Feb 2004	–
	Short-term – Day	10:05hrs to 13:05hrs, 20 January 2004	MS
	Short-term - Night	02:00hrs to 05:05hrs, 21 January 2004	MS
i, ii, iii	Traffic noise	11:00hrs to 13:40hrs, 10 December 2003	BF

Table 2 Details of Monitoring Periods Phase 2

3.3 Difficulties Encountered During Surveys

The following difficulties were encountered during the baseline noise surveys:

The Phase 1 continuous noise monitoring at Location A was initially undertaken in summer 2003 on vacant land to the east of the Irish Glass Bottlers site. Due to security issues, it was only possible to obtain 24-hours survey results during Phase 1. For the Phase 2 continuous noise monitoring, Location A was moved into the secure grounds of the Irish Glass Bottlers site and the full 7-day survey was undertaken. The Phase 1 continuous noise monitoring for Location A was subsequently repeated in summer 2004 at the same position as for Phase 2 over the full 7-day period and this is the set of results presented in this report.

The continuous noise monitoring at Location C was undertaken inside the grounds of the Rehab School. There was a 2 metre high wall between the survey position and Beach Road and this provided attenuation of noise levels at the monitoring location. For the short-term day and night noise surveys during Phase 1, it was not possible to get access to the Rehab School grounds therefore the measurements were undertaken at the front of the Rehab School boundary wall facing Beach Road. This results in higher noise levels for the short-term measured levels when compared to the continuous noise monitoring measured level. We note that the short-term noise surveys during Phase 2 were undertaken at the same position as the continuous noise monitoring location.

3.4 Results and Discussion

The following sections of the report review the results of noise monitoring periods at the various locations assessed.

3.4.1 Location A

Phase 1 attended noise survey data at this location are detailed in Table 3.

	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
Day	12:08 – 12:23	54	76	42	50	44
	12:23 – 12:38	50	67	44	51	47
	12:38 – 12:53	55	87	45	54	47
	12:53 – 13:08	49	60	46	51	47
	13:08 – 13:23	50	63	46	52	47
	13:23 – 13:38	48	64	43	50	45
	13:38 – 13:53	47	59	42	49	44
	13:53 – 14:08	51	78	43	53	46
	14:08 – 14:23	49	60	44	51	46
	14:23 – 14:38	63	88	43	56	46
	14:38 – 14:53	50	79	42	49	45
	14:53 – 15:08	55	82	43	54	45
Night	00:00 – 00:15	50	69	41	51	44
	00:15 – 00:30	46	63	41	48	43
	00:30 – 00:45	48	60	42	50	44
	00:45 – 01:00	47	65	41	49	43
	01:00 – 01:15	48	75	41	50	43
	01:15 – 01:30	48	64	41	51	44
	01:30 – 01:45	48	64	40	51	42
	01:45 – 02:00	48	75	40	50	42
	02:00 – 02:15	50	72	41	53	44
	02:15 – 02:30	49	65	39	52	42
	02:30 – 02:45	45	57	40	48	41
	02:45 – 03:00	48	75	38	51	41

Table 3 Phase 1 Short-term Measurements at Location A

During daytime periods, distant traffic noise from local roads was the dominant noise source at this location. HGV movements on local roads, along with associated body slaps from trailers also contributed to noise build up at this location. Noise from nearby industry was also noted during the survey periods. Noise levels were in the range of 47 to 63dB L_{Aeq} and 44 to 47dB L_{A90}.

During the night-time period, traffic noise on local roads was again the significant source of noise. Noise levels were also influenced by distant plant noise from a waste-water treatment plant. Noise levels were in the range 45 to 50dB L_{Aeq} and 41 to 44dB L_{A90} .

Details of Phase 1 continuous monitoring conducted at Location A are detailed in Appendix A. A summary of the continuous monitoring for Phase 1 is given in Table 4.

Period	Statistic	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}
Day	Average	50	-	-	58	43
	Max	62	85	51	86	51
	Min	39	41	34	41	35
Night	Average	48	-	-	58	38
	Max	61	67	51	83	48
	Min	30	31	28	39	26

Table 4 Phase 1 Continuous Noise Measurements Review at Location A

Phase 2 attended noise survey data at this location are detailed in Table 5.

Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)					
	L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}	
Day	10:19 – 10:34	50	67	47	51	49
	10:34 – 10:49	52	68	48	53	49
	10:49 – 11:04	52	69	48	53	50
	11:04 – 11:19	60	81	48	57	50
	11:19 – 11:34	52	67	48	54	50
	11:34 – 11:49	55	75	47	57	50
	11:49 – 12:04	62	84	48	54	49
	12:04 – 12:19	51	62	47	52	49
	12:19 – 12:34	56	75	47	53	49
	12:34 – 12:49	74	97 ⁶	47	76	49
	12:49 – 13:04	50	66	46	52	48
Night	13:04 – 13:19	51	79	45	52	47
	02:26 – 02:41	37	52	34	38	36
	02:41 – 02:56	38	54	35	39	36
	02:56 – 03:11	38	55	35	39	37
	03:11 – 03:26	37	46	34	38	36
	03:26 – 03:41	38	53	35	38	36
	03:41 – 03:56	39	56	35	40	36
03:56 – 04:11	39	47	35	41	36	
04:11 – 04:26	39	52	35	42	36	

⁶ Dump tuck tipping bottles onto ground on Irish Glass site some 20m from the monitoring location.

Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
	L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
04:26 – 04:41	39	47	35	42	37
04:41 – 04:56	40	56	36	42	37
04:56 – 05:11	41	56	36	42	38
05:11 – 05:26	42	59	37	44	39

Table 5 Phase 2 Short-term Measurements at Location A

Due to security issues the noise monitoring location was moved to the opposite side of the road from the original location on to lands owned by Irish Glass. As with the previous monitoring traffic noise was again the dominant noise source during survey periods. Noise levels during daytime periods were influenced also by activities within the Irish Glass site. Noise levels were in the range of 50 to 74dB L_{Aeq} and 47 to 50dB L_{A90}.

Night time noise levels were dominated by traffic noise. During lulls in traffic birdsong was noted at this location. Noise levels were in the range of 37 to 42dB L_{Aeq} and 36 to 39dB L_{A90}.

Details of Phase 2 continuous monitoring conducted at Location A are detailed in Appendix A. A summary of the continuous monitoring for Phase 2 is given in Table 6.

Period	Statistic	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
Day	Average	59	–	–	55	47
	Max	74	106	52	76	57
	Min	43	51	37	45	40
Night	Average	60	–	–	52	42
	Max	77	100	50	79	55
	Min	38	45	32	39	34

Table 6 Phase 2 Continuous Noise Measurements Review at Location A

3.4.2 Location B

The Phase 1 attended noise survey data at this location are given in Table 7.

Time		Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
Day	10:43 – 10:58	65	77	50	68	56
	10:59 – 11:14	65	81	49	67	56
	11:14 – 11:29	65	80	53	67	59
	11:29 – 11:44	65	76	50	68	58
	11:44 – 11:59	70	99	51	68	57
	11:59 – 12:14	64	80	49	67	56
	12:14 – 12:29	64	75	53	67	58
	12:29 – 12:44	65	80	50	68	57
	12:44 – 12:59	64	76	51	67	58
	12:59 – 13:14	64	76	54	66	58
	13:14 – 13:29	65	79	50	67	58
Night	13:29 – 13:44	65	76	52	67	58
	23:28 – 23:43	58	89	51	60	52
	23:43 – 23:58	56	75	49	59	51
	23:58 – 00:13	55	66	50	57	51
	00:13 – 00:28	56	67	46	59	52
	00:28 – 00:43	56	70	51	58	52
	00:43 – 00:58	55	66	51	57	53
	00:58 – 01:13	55	68	47	59	51
	01:13 – 01:28	53	66	46	57	49
	01:28 – 01:43	54	69	47	56	50
	01:43 – 01:58	52	70	46	57	47
01:58 – 02:13	51	66	45	53	46	
02:13 – 02:28	52	67	44	56	46	

Table 7 Phase 1 Short-term Measurements at Location B

Traffic noise on local roads was again the dominant noise source at this location during the daytime. During very occasional lulls in traffic noise source associated with Dublin Port were also audible at this location. Noise levels were in the range of 64 to 70dB L_{Aeq} and 56 to 59dB L_{A90}.

Night time noise levels were influenced by traffic noise and activities within the nearby port dominated noise levels. Noise levels were in the range of 51 to 58dB L_{Aeq} and 46 to 53dB L_{A90}.

Details of Phase 1 of the continuous monitoring conducted at Location B are detailed in Appendix B. A summary of the continuous monitoring for Phase 1 is given in Table 8.

Period	Statistic	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
Day	Average	62	–	–	64	53
	Max	67	–	–	70	61
	Min	50	–	–	54	38
Night	Average	60	–	–	59	45
	Max	67	–	–	69	62
	Min	47	–	–	45	36

Table 8 Phase 1 Continuous Noise Measurements Review at Location B

The Phase 2 attended noise survey data at this location are given in Table 9.

Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)					
	L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}	
Day	10:02 – 10:17	66	81	54	69	60
	10:17 – 10:32	67	84	56	69	62
	10:32 – 10:47	67	83	57	69	61
	10:47 – 11:02	67	81	57	70	63
	11:02 – 11:17	68	89	59	70	63
	11:17 – 11:32	67	77	57	70	62
	11:32 – 11:47	68	81	55	71	61
	11:47 – 12:02	67	86	57	69	61
	12:02 – 12:17	67	81	56	69	62
	12:17 – 12:32	68	78	58	70	62
	12:32 – 12:47	67	80	57	69	62
Night	12:47 – 13:02	67	82	55	69	62
	02:15 – 02:30	53	75	41	51	44
	02:30 – 02:47	53	70	41	52	45
	02:47 – 03:02	51	67	41	52	44
	03:02 – 03:17	49	64	40	50	43
	03:17 – 03:32	53	72	42	53	44
	03:32 – 03:47	49	68	41	50	43
	03:47 – 04:02	51	69	40	52	43
	04:02 – 04:17	52	66	40	54	44
	04:17 – 04:32	53	71	40	54	43
	04:32 – 04:47	50	66	40	51	44
04:47 – 05:02	54	68	42	58	45	
05:02 – 05:17	58	78	42	60	46	

Table 9 Phase 2 Manned Measurements at Location B

Again traffic noise levels were the dominant sources of noise at this location during daytime survey periods. Industrial noise from the nearby port was also audible during occasional lulls in traffic movements on the local roads. Noise levels were in the range of 66 to 68dB L_{Aeq} and 60 to 63dB L_{A90}.

The night time survey at this location was conducted during periods when traffic movements on the local road network were at a minimum. Traffic noise was still the dominant source of ambient noise in the area. Again noise from the nearby port was noted during this survey period. Noise levels were in the range of 49 to 58dB L_{Aeq} and 43 to 46dB L_{A90} .

Details of Phase 2 of the continuous monitoring conducted at Location B are detailed in Appendix B. A summary of the continuous monitoring for Phase 2 is given in Table 10.

Period	Statistic	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}
Day	Average	65	-	-	68	58
	Max	69	98	67	89	67
	Min	57	63	45	61	47
Night	Average	59	-	-	61	49
	Max	69	99	61	85	64
	Min	47	50	39	46	39

Table 10 Phase 2 Continuous Noise Measurements Review at Location B

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3.4.3 Location C

The Phase 1 attended noise survey data at this location are detailed in Table 11.

Time		Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
Day	13:20 – 13:35	71	92	49	74	56
	13:35 – 13:50	70	83	49	74	55
	13:50 – 14:05	70	83	50	73	56
	14:05 – 14:20	70	83	47	74	53
	14:20 – 14:35	71	86	50	74	56
	14:35 – 14:50	70	83	48	74	54
	14:50 – 15:05	70	86	47	73	55
	15:05 – 15:20	70	84	49	73	56
	15:20 – 15:35	70	85	48	74	57
	15:35 – 15:50	70	86	48	74	55
	15:50 – 16:05	71	88	49	74	57
	16:05 – 16:20	72	96	48	72	56
Night	23:13 – 23:28	67	82	41	72	46
	23:28 – 23:43	66	82	38	72	44
	23:43 – 23:58	65	81	38	70	43
	23:58 – 00:13	66	82	38	71	43
	00:13 – 00:28	65	82	36	69	40
	00:28 – 00:43	65	85	35	69	39
	00:43 – 00:58	61	80	34	60	36
	00:58 – 01:13	61	81	33	56	35
	01:13 – 01:28	64	96	32	62	34
	01:28 – 01:43	61	81	32	57	35
01:43 – 01:58	63	89	31	55	33	

Table 11 Phase 1 Short-term Measurements at Location C

Daytime noise levels at this location were dominated by traffic movements along the Strand Road and occasional vehicle and pedestrian activity entering and leaving the school grounds near the monitoring location. Noise levels were in the range of 70 to 72dB L_{Aeq} and 54 to 57dB L_{A90}.

Night time noise levels at this location were dominated by road traffic. There were no other significant sources of ambient noise noted during this survey period. Noise levels were in the range of 61 to 67dB L_{Aeq} and 33 to 46dB L_{A90}.

Details of Phase 1 of the continuous monitoring conducted at Location C are detailed in Appendix C. A summary of the continuous monitoring for Phase 1 is given in Table 12.

Period	Statistic	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
Day	Average	59	–	–	61	49
	Max	66	–	–	65	55
	Min	54	–	–	57	39
Night	Average	55	–	–	57	39
	Max	61	–	–	63	55
	Min	42	–	–	42	29

Table 12 Phase 1 Continuous Noise Measurements Review at Location C

Details of continuous monitoring conducted at Location C are detailed in Appendix C. Peak noise levels monitored at this location are lower than those detailed for the manned survey periods due to screening from local walls.

Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)					
	L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}	
Day	10:05 – 10:20	59	70	45	62	49
	10:20 – 10:35	60	78	47	63	52
	10:35 – 10:50	60	77	47	62	52
	10:50 – 11:05	59	68	45	63	49
	11:05 – 11:20	60	70	46	62	51
	11:20 – 11:35	62	83	47	63	51
	11:35 – 11:50	60	75	46	63	51
	11:50 – 12:05	60	73	48	63	51
	12:05 – 12:20	59	70	45	63	50
	12:20 – 12:35	60	72	46	62	52
	12:35 – 12:50	60	70	47	63	50
Night	02:00 – 02:15	49	67	30	49	32
	02:15 – 02:30	47	64	30	46	31
	02:30 – 02:45	48	70	30	44	31
	02:45 – 03:00	48	66	31	47	33
	03:00 – 03:15	43	65	32	41	33
	03:15 – 03:30	47	70	30	43	32
	03:35 – 03:50	44	66	30	41	32
	03:50 – 04:05	48	65	30	50	32
	04:05 – 04:20	47	64	30	46	32
	04:20 – 04:35	50	71	30	49	33
	04:35 – 04:50	48	70	31	48	33
	04:50 – 05:05	51	67	32	56	34

Table 13 Phase 2 Manned Measurements at Location C

Daytime noise levels at this location were dominated by traffic movements along the Strand Road and occasional vehicle and pedestrian activity entering and leaving the school grounds near the monitoring location. Noise levels were in the range of 59 to 62dB L_{Aeq} and 49 to 52dB L_{A90} .

Night time noise levels at this location were dominated by road traffic. There were no other significant sources of ambient noise noted during this survey period. Noise levels were in the range of 43 to 51dB L_{Aeq} and 31 to 34dB L_{A90} .

Details of Phase 2 of the continuous monitoring conducted at Location C are detailed in Appendix C. A summary of the continuous monitoring for Phase 2 is given in Table 14.

Period	Statistic	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}
Day	Average	62	-	-	64	55
	Max	68	93	55	66	59
	Min	59	68	45	63	50
Night	Average	58	-	-	60	46
	Max	64	89	52	67	59
	Min	43	64	32	42	34

Table 14 Phase 2 Continuous Noise Measurements Review at Location C

3.4.4 Location i

The results for Position i are summarised in Table 15 below.

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)					Derived dB $L_{A10(18hour)}^Z$
		L_{Aeq}	L_{AMax}	L_{AMin}	L_{A10}	L_{A90}	
26/06/03	12:45 – 13:00	65	83	56	68	60	67
	13:45 – 14:00	65	78	56	68	59	
	14:45 – 15:00	64	80	53	67	57	
30/07/03	13:32 – 13:47	63	75	54	66	57	66
	14:56 – 15:11	63	77	52	66	57	
	16:45 – 17:00	68	92	44	70	54	
10/12/03	11:19 – 11:34	67	93	56	70	60	71
	12:40 – 12:55	70	87	52	73	58	
	13:39 – 13:54	71	91	50	74	61	

Table 15 Traffic Noise Surveys Results at Location i

⁷ The derived $L_{A10(18hour)}$ for the location is derived by subtracting 1dB from the arithmetic average of the three hourly sample values, i.e. $L_{A10(18hour)} = ((\sum L_{A10(1hour)}) \div 3) - 1$ dB.

Traffic noise dominated at this location during all survey periods. Derived $L_{A10(18\text{hour})}$ levels were in the range of 67 to 71dB⁸.

3.4.5 Location iii

The results for Position ii are summarised in Table 16 below.

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)					Derived dB $L_{A10(18\text{hour})}$
		L_{Aeq}	L_{Amax}	L_{AMin}	L_{A10}	L_{A90}	
26/06/03	12:25 – 13:40	69	85	49	72	56	70
	13:25 – 13:40	68	91	50	71	56	
	14:25 – 14:40	67	82	51	70	56	
30/07/03	13:56 – 14:11	66	85	47	69	54	67
	15:19 – 15:34	67	83	45	70	55	
	16:21 – 16:36	62	76	52	66	56	
10/12/03	11:59 – 12:14	69	81	48	72	58	71
	13:01 – 13:16	70	83	47	73	59	
	13:58 – 14:13	69	79	46	72	55	

Table 16 Traffic Noise Surveys Results at Location ii

Traffic noise dominated at this location during all survey periods. Derived $L_{A10(18\text{hour})}$ levels were in the range of 67 to 71dB

⁸ Due to local obstructions monitoring was conducted at a nearer location to the road than on previous surveys.

3.4.6 Location iii

The results for Position iii are summarised in Table 17 below.

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)					Derived dB $L_{A10(18\text{hour})}$
		L_{Aeq}	L_{Amax}	L_{AMin}	L_{A10}	L_{A90}	
26/06/2003	13:05 – 13:20	66	78	43	70	52	69
	13:05 – 13:20	69	91	45	71	56	
	14:05 – 14:20	67	90	43	71	54	
30/07/2003	14:26 – 14:41	67	80	48	70	55	68
	15:40 – 15:55	66	79	43	69	52	
	15:55 – 16:10	66	87	42	69	51	
10/12/03	12:21 – 12:36	70	86	57	74	62	71
	13:20 – 13:35	70	86	58	73	63	
	14:18 – 14:33	68	92	55	71	60	

Table 17 Phase 1 Traffic Noise Surveys Results at Location iii

Traffic noise dominated at this location during all survey periods. Derived $L_{A10(18\text{hour})}$ levels were in the range of 68 to 71 dB.

Indicative traffic numbers that passed the monitoring locations during traffic surveys in Table 18.

Date	Location	Number of Vehicles	Number of HGV	%HGV
26/06/2003	i	380	40	10
	ii	200	15	13
	iii	300	30	10
30/07/2003	i	415	60	7
	ii	225	19	12
	iii	315	35	9
10/12/03	i	395	45	9
	ii	220	20	11
	iii	305	30	10

Table 18 Approximate Traffic Movements

4.0 VIBRATION MONITORING REVIEW

Vibration monitoring surveys were carried out at Locations A, B, C, i, ii, and iii. Appendix D details all vibration monitoring data. The tables in this section of the report review measured levels at each location.

No vibration limits have been set as part of this overall project; however, the following table has been collated from general guidance taken from BRE Digest 353 and BS7385⁹:

Type of structure	Frequency (Hz) of vibration		
	Less than 10Hz	10 to 50Hz	50 to 100Hz (and above)
Particularly sensitive / listed building	3 mm/s	3 to 8 mm/s	8 to 10 mm/s
Dwellings	5 mm/s	5 to 15 mm/s	15 to 20 mm/s
Light & flexible industrial / commercial	10 mm/s	10 to 30 mm/s	30 to 40 mm/s
Heavy and stiff buildings	20 mm/s	20 to 40 mm/s	40 to 50 mm/s

Table 19 Peak Particle Velocities (ppv in mm/s) Below Which Transient Vibration Should Not Cause Cosmetic Building Damage

All the measured vibration data is presented in Appendices D. Analysis of the vibration data suggests that existing levels of vibration are not sufficient in magnitude to cause concern.

⁹

It should be noted that these vibration levels are stated in this report for information purposes only and may or may not be applied at further stages of this assessment as deemed appropriate.

**FIGURE 1
SITE MAP SHOWING MONITORING LOCATIONS**

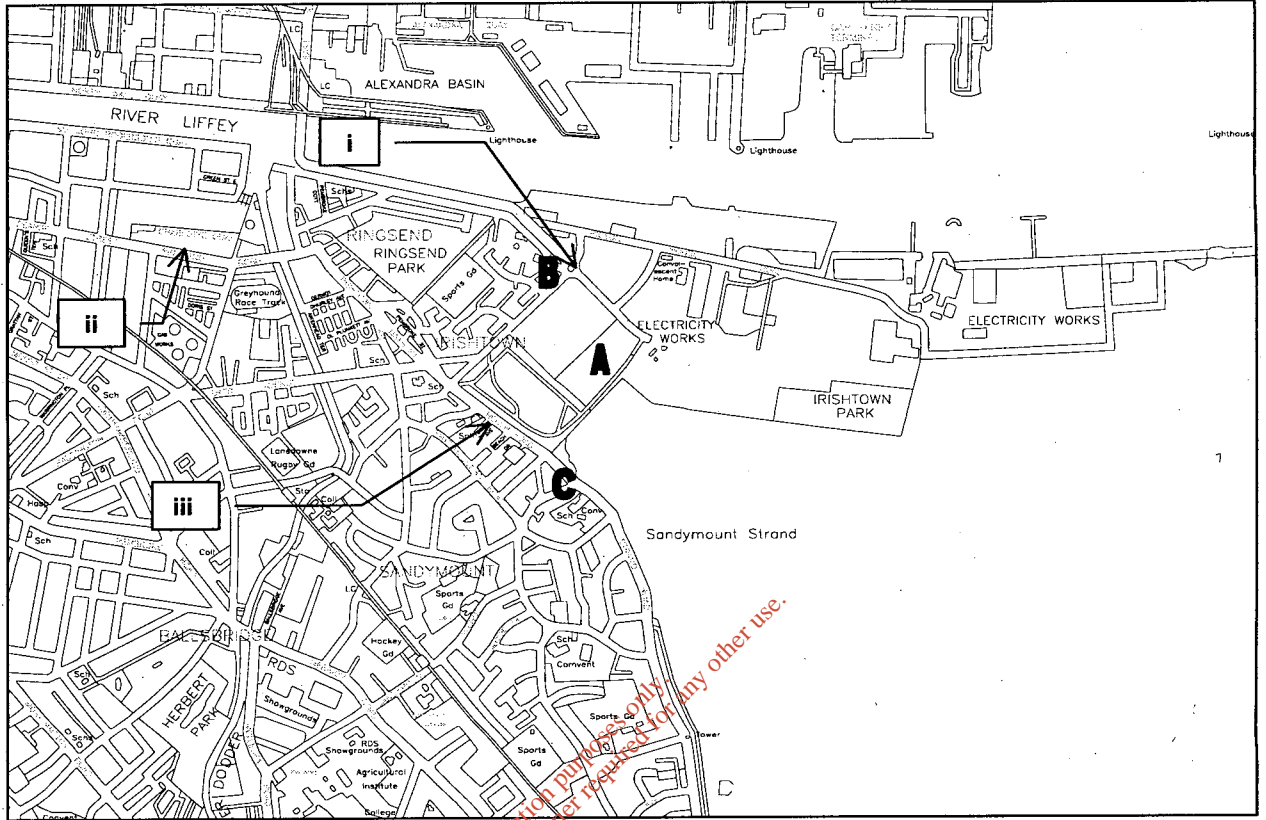
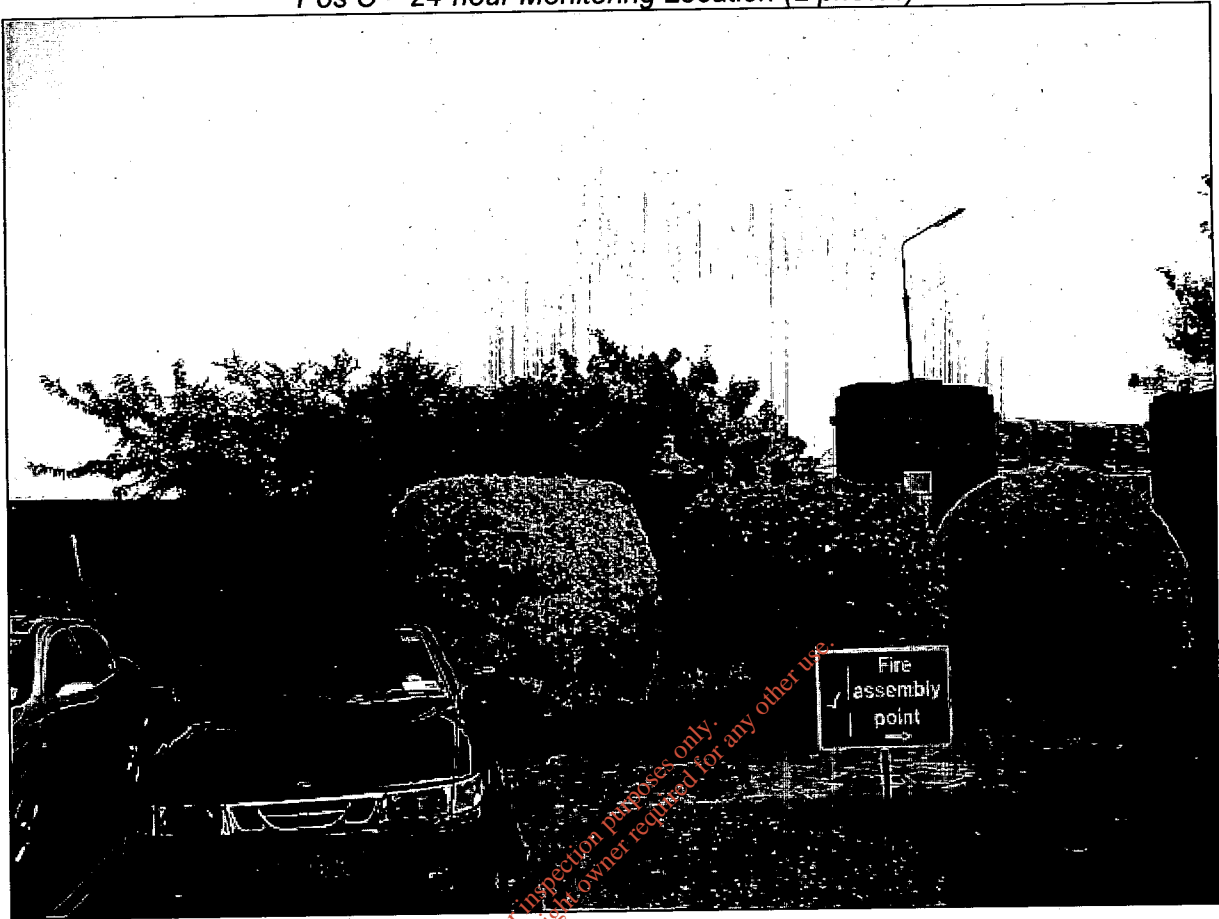


FIGURE 2
PHOTOS SHOWING MONITORING LOCATIONS

Pos A – 24-hour Monitoring Location (Irish Glass site in background)



Pos C – 24-hour Monitoring Location (2 photos)





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Pos i – Short-term Monitoring Location

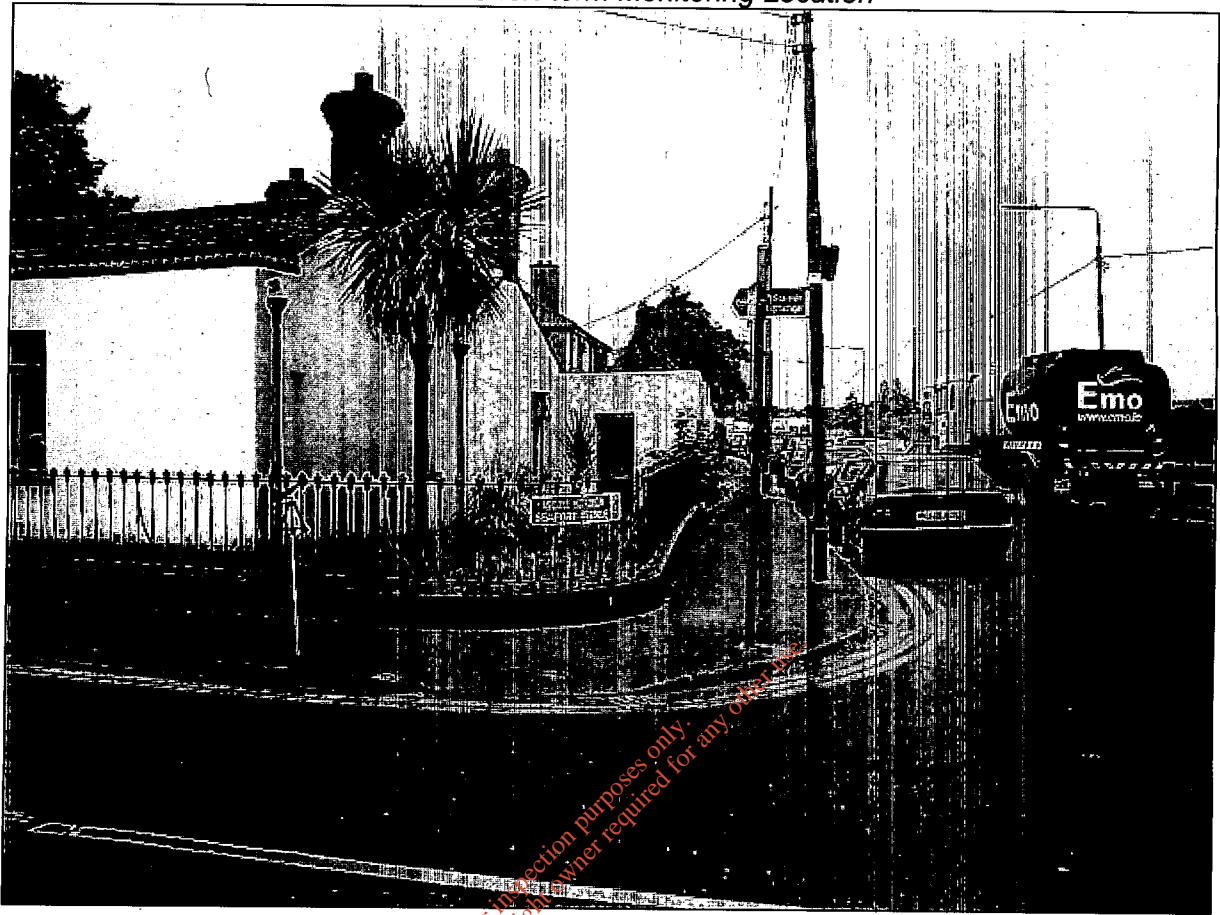


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Pos ii – Short-term Monitoring Location



Pos iii – Short-term Monitoring Location



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APPENDIX A
LOCATION A - CONTINUOUS MONITORING DATA

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
18 May 04	12:00	55	75	48	57	51
18 May 04	12:15	54	72	48	56	50
18 May 04	12:30	51	69	47	53	48
18 May 04	12:45	51	67	46	52	48
18 May 04	13:00	50	67	44	51	47
18 May 04	13:15	50	68	44	51	46
18 May 04	13:30	49	61	45	51	47
18 May 04	13:45	51	62	46	53	48
18 May 04	14:00	50	62	46	52	48
18 May 04	14:15	55	76	46	54	48
18 May 04	14:30	54	77	46	53	48
18 May 04	14:45	52	73	46	54	49
18 May 04	15:00	50	80	43	51	44
18 May 04	15:15	55	81	42	55	44
18 May 04	15:30	49	62	43	51	45
18 May 04	15:45	53	76	42	52	45
18 May 04	16:00	58	84	43	59	47
18 May 04	16:15	47	61	43	49	45
18 May 04	16:30	47	59	40	49	44
18 May 04	16:45	48	57	42	50	45
18 May 04	17:00	48	68	43	50	45
18 May 04	17:15	48	66	42	50	44
18 May 04	17:30	47	63	42	50	44
18 May 04	17:45	50	71	42	49	44
18 May 04	18:00	47	62	41	50	43
18 May 04	18:15	46	55	41	49	43
18 May 04	18:30	48	65	41	50	43
18 May 04	18:45	55	77	41	55	44
18 May 04	19:00	52	68	44	53	48
18 May 04	19:15	47	59	43	50	44
18 May 04	19:30	51	70	41	50	43
18 May 04	19:45	47	58	42	50	45
18 May 04	20:00	49	70	42	52	44
18 May 04	20:15	48	58	42	51	45
18 May 04	20:30	47	56	41	48	44
18 May 04	20:45	48	64	41	51	44
18 May 04	21:00	48	56	42	51	45
18 May 04	21:15	48	62	43	50	44
18 May 04	21:30	51	69	42	53	45
18 May 04	21:45	50	68	42	52	44
18 May 04	22:00	48	57	43	51	45
18 May 04	22:15	52	64	44	55	47
18 May 04	22:30	52	64	44	55	46
18 May 04	22:45	50	64	43	53	46
18 May 04	23:00	51	63	42	54	46
18 May 04	23:15	53	70	43	56	45
18 May 04	23:30	50	60	42	54	45
18 May 04	23:45	50	63	42	53	45
19 May 04	00:00	55	83	44	56	47

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
19 May 04	00:15	53	67	41	57	46
19 May 04	00:30	52	64	42	56	45
19 May 04	00:45	53	64	42	56	47
19 May 04	01:00	53	68	43	56	46
19 May 04	01:15	53	64	43	57	47
19 May 04	01:30	55	69	42	59	47
19 May 04	01:45	53	66	41	57	46
19 May 04	02:00	55	71	41	60	45
19 May 04	02:15	55	69	41	59	45
19 May 04	02:30	56	70	42	60	47
19 May 04	02:45	53	66	40	56	44
19 May 04	03:00	54	73	39	57	46
19 May 04	03:15	53	70	41	57	46
19 May 04	03:30	52	63	40	56	45
19 May 04	03:45	51	63	40	54	45
19 May 04	04:00	51	65	39	54	43
19 May 04	04:15	53	65	41	56	46
19 May 04	04:30	51	71	40	54	44
19 May 04	04:45	52	68	41	55	46
19 May 04	05:00	51	62	41	55	45
19 May 04	05:15	53	62	42	56	46
19 May 04	05:30	51	61	41	55	45
19 May 04	05:45	50	60	42	53	45
19 May 04	06:00	52	65	45	55	48
19 May 04	06:15	51	67	44	54	47
19 May 04	06:30	52	62	46	54	48
19 May 04	06:45	53	71	46	55	48
19 May 04	07:00	52	66	46	55	49
19 May 04	07:15	54	64	48	56	49
19 May 04	07:30	54	69	48	57	51
19 May 04	07:45	55	68	47	58	50
19 May 04	08:00	55	68	48	58	50
19 May 04	08:15	55	66	47	58	50
19 May 04	08:30	53	65	46	56	49
19 May 04	08:45	54	64	47	57	49
19 May 04	09:00	54	64	48	57	50
19 May 04	09:15	52	68	46	55	49
19 May 04	09:30	56	77	46	58	49
19 May 04	09:45	54	72	46	56	48
19 May 04	10:00	54	79	46	56	48
19 May 04	10:15	53	67	46	56	48
19 May 04	10:30	51	68	45	53	47
19 May 04	10:45	51	64	46	54	48
19 May 04	11:00	51	64	45	54	47
19 May 04	11:15	54	80	45	53	47
19 May 04	11:30	51	58	45	53	48
19 May 04	11:45	57	86	45	53	48
19 May 04	12:00	50	60	45	52	47
19 May 04	12:15	55	81	46	55	48
19 May 04	12:30	55	77	44	54	46
19 May 04	12:45	50	63	44	52	46
19 May 04	13:00	49	61	43	51	46

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
19 May 04	13:15	53	71	45	53	46
19 May 04	13:30	49	61	44	51	46
19 May 04	13:45	50	63	44	51	47
19 May 04	14:00	48	67	44	50	46
19 May 04	14:15	50	61	45	52	47
19 May 04	14:30	50	66	45	51	47
19 May 04	14:45	50	67	46	53	48
19 May 04	15:00	50	67	42	51	45
19 May 04	15:15	51	77	43	50	45
19 May 04	15:30	47	62	42	49	45
19 May 04	15:45	48	62	43	49	45
19 May 04	16:00	47	56	42	49	44
19 May 04	16:15	49	65	43	50	46
19 May 04	16:30	49	62	43	51	46
19 May 04	16:45	49	65	44	50	46
19 May 04	17:00	48	59	43	50	45
19 May 04	17:15	47	58	42	48	44
19 May 04	17:30	47	66	44	49	45
19 May 04	17:45	47	62	43	49	45
19 May 04	18:00	55	81	41	54	44
19 May 04	18:15	54	77	41	52	43
19 May 04	18:30	45	64	41	47	43
19 May 04	18:45	46	65	41	48	43
19 May 04	19:00	46	66	40	46	41
19 May 04	19:15	45	57	40	47	42
19 May 04	19:30	46	62	40	47	43
19 May 04	19:45	44	55	40	46	42
19 May 04	20:00	46	63	40	47	42
19 May 04	20:15	45	66	40	47	42
19 May 04	20:30	46	65	39	45	41
19 May 04	20:45	44	55	38	45	41
19 May 04	21:00	46	67	39	44	41
19 May 04	21:15	45	60	40	48	41
19 May 04	21:30	41	55	37	42	39
19 May 04	21:45	43	63	38	42	39
19 May 04	22:00	41	53	38	42	39
19 May 04	22:15	40	50	37	41	39
19 May 04	22:30	40	53	37	41	38
19 May 04	22:45	40	48	37	42	39
19 May 04	23:00	40	49	37	41	38
19 May 04	23:15	41	51	37	43	39
19 May 04	23:30	40	51	37	42	39
19 May 04	23:45	41	56	37	42	39
20 May 04	00:00	42	57	38	43	40
20 May 04	00:15	42	50	38	44	40
20 May 04	00:30	50	69	39	45	41
20 May 04	00:45	42	58	38	44	40
20 May 04	01:00	42	51	37	43	40
20 May 04	01:15	42	54	38	44	40
20 May 04	01:30	41	61	37	43	39
20 May 04	01:45	41	51	37	42	39
20 May 04	02:00	40	56	36	41	38

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
20 May 04	02:15	39	49	36	40	38
20 May 04	02:30	38	47	35	40	37
20 May 04	02:45	40	55	37	41	38
20 May 04	03:00	40	47	36	41	38
20 May 04	03:15	40	56	36	42	39
20 May 04	03:30	41	56	37	42	38
20 May 04	03:45	42	59	36	44	39
20 May 04	04:00	41	54	36	42	38
20 May 04	04:15	54	72	37	44	39
20 May 04	04:30	59	75	37	65	39
20 May 04	04:45	45	64	36	43	39
20 May 04	05:00	46	65	37	44	39
20 May 04	05:15	43	59	38	44	40
20 May 04	05:30	45	64	38	47	40
20 May 04	05:45	46	66	39	48	41
20 May 04	06:00	42	60	38	44	40
20 May 04	06:15	45	59	39	46	41
20 May 04	06:30	44	58	39	46	41
20 May 04	06:45	47	62	39	50	41
20 May 04	07:00	47	63	42	49	43
20 May 04	07:15	48	64	43	50	45
20 May 04	07:30	46	59	42	49	44
20 May 04	07:45	48	63	42	50	44
20 May 04	08:00	50	66	42	51	45
20 May 04	08:15	49	67	44	51	46
20 May 04	08:30	50	76	44	49	45
20 May 04	08:45	47	62	42	49	44
20 May 04	09:00	48	67	43	50	44
20 May 04	09:15	46	59	41	48	44
20 May 04	09:30	48	59	43	50	44
20 May 04	09:45	48	63	43	50	45
20 May 04	10:00	49	66	43	51	45
20 May 04	10:15	49	64	43	51	45
20 May 04	10:30	52	73	41	50	44
20 May 04	10:45	50	70	40	51	44
20 May 04	11:00	51	70	43	52	45
20 May 04	11:15	50	63	43	52	45
20 May 04	11:30	51	76	42	51	45
20 May 04	11:45	48	62	43	50	45
20 May 04	12:00	47	61	41	49	44
20 May 04	12:15	48	65	44	50	46
20 May 04	12:30	49	69	43	51	45
20 May 04	12:45	50	69	42	52	45
20 May 04	13:00	47	72	41	48	44
20 May 04	13:15	48	58	42	51	45
20 May 04	13:30	50	69	46	52	48
20 May 04	13:45	50	64	46	52	48
20 May 04	14:00	48	62	43	50	45
20 May 04	14:15	47	58	43	48	45
20 May 04	14:30	48	64	45	50	46
20 May 04	14:45	52	72	45	53	47
20 May 04	15:00	48	62	44	49	45

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
20 May 04	15:15	50	66	44	51	46
20 May 04	15:30	49	63	43	51	45
20 May 04	15:45	49	68	44	51	46
20 May 04	16:00	52	73	44	52	47
20 May 04	16:15	50	64	44	52	46
20 May 04	16:30	48	66	43	49	45
20 May 04	16:45	51	76	44	53	48
20 May 04	17:00	51	65	47	53	49
20 May 04	17:15	51	70	44	53	47
20 May 04	17:30	50	65	44	52	46
20 May 04	17:45	47	65	43	49	45
20 May 04	18:00	47	65	43	49	45
20 May 04	18:15	53	65	45	57	48
20 May 04	18:30	53	64	46	57	48
20 May 04	18:45	49	66	44	50	45
20 May 04	19:00	47	62	42	49	44
20 May 04	19:15	48	63	42	49	44
20 May 04	19:30	45	58	41	46	42
20 May 04	19:45	45	55	41	46	43
20 May 04	20:00	52	71	42	50	43
20 May 04	20:15	44	56	41	45	42
20 May 04	20:30	48	67	41	48	42
20 May 04	20:45	55	75	40	51	42
20 May 04	21:00	42	55	40	43	41
20 May 04	21:15	42	53	40	44	41
20 May 04	21:30	43	56	40	45	42
20 May 04	21:45	45	54	41	46	43
20 May 04	22:00	45	54	42	46	44
20 May 04	22:15	46	52	43	47	44
20 May 04	22:30	45	52	42	47	44
20 May 04	22:45	44	49	41	45	43
20 May 04	23:00	45	59	41	46	42
20 May 04	23:15	44	50	40	45	42
20 May 04	23:30	43	54	40	44	42
20 May 04	23:45	44	56	40	46	42
21 May 04	00:00	43	54	40	44	42
21 May 04	00:15	43	53	39	44	41
21 May 04	00:30	42	58	40	43	41
21 May 04	00:45	42	53	39	44	41
21 May 04	01:00	42	53	39	43	41
21 May 04	01:15	41	53	38	42	40
21 May 04	01:30	40	49	38	41	39
21 May 04	01:45	41	53	38	42	39
21 May 04	02:00	41	56	38	42	39
21 May 04	02:15	51	73	38	51	40
21 May 04	02:30	41	52	37	42	40
21 May 04	02:45	40	51	38	41	39
21 May 04	03:00	41	56	37	42	39
21 May 04	03:15	40	53	37	41	38
21 May 04	03:30	40	51	37	41	38
21 May 04	03:45	39	46	36	41	38
21 May 04	04:00	40	49	37	42	39

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
21 May 04	04:15	45	69	38	43	41
21 May 04	04:30	50	67	40	47	42
21 May 04	04:45	42	49	38	44	40
21 May 04	05:00	41	55	38	43	39
21 May 04	05:15	43	54	39	45	40
21 May 04	05:30	49	73	40	47	41
21 May 04	05:45	45	55	41	47	43
21 May 04	06:00	46	55	42	48	43
21 May 04	06:15	47	70	42	48	44
21 May 04	06:30	46	64	42	47	44
21 May 04	06:45	47	61	42	50	44
21 May 04	07:00	48	65	42	49	44
21 May 04	07:15	49	64	43	51	45
21 May 04	07:30	48	63	43	49	45
21 May 04	07:45	47	64	43	49	45
21 May 04	08:00	62	82	44	51	46
21 May 04	08:15	50	65	45	52	47
21 May 04	08:30	49	59	44	51	46
21 May 04	08:45	60	77	44	57	46
21 May 04	09:00	49	73	43	50	45
21 May 04	09:15	50	67	43	50	45
21 May 04	09:30	50	67	42	51	46
21 May 04	09:45	54	72	45	55	47
21 May 04	10:00	54	70	44	58	46
21 May 04	10:15	55	76	42	51	45
21 May 04	10:30	54	79	44	54	46
21 May 04	10:45	50	67	43	51	45
21 May 04	11:00	51	68	44	53	47
21 May 04	11:15	49	58	43	51	46
21 May 04	11:30	50	67	44	51	46
21 May 04	11:45	49	61	45	51	46
21 May 04	12:00	50	65	45	52	47
21 May 04	12:15	51	66	44	53	46
21 May 04	12:30	53	70	45	55	47
21 May 04	12:45	50	60	43	53	45
21 May 04	13:00	50	61	44	52	47
21 May 04	13:15	49	62	44	51	46
21 May 04	13:30	51	60	46	53	48
21 May 04	13:45	52	68	46	53	48
21 May 04	14:00	53	67	48	56	50
21 May 04	14:15	53	65	48	55	51
21 May 04	14:30	53	66	48	55	51
21 May 04	14:45	52	62	48	54	50
21 May 04	15:00	52	64	47	54	49
21 May 04	15:15	54	71	46	55	50
21 May 04	15:30	54	80	46	54	48
21 May 04	15:45	54	80	46	54	48
21 May 04	16:00	50	59	45	52	47
21 May 04	16:15	51	69	45	53	47
21 May 04	16:30	51	68	44	53	46
21 May 04	16:45	48	61	43	50	45
21 May 04	17:00	50	66	45	52	46

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
21 May 04	17:15	53	74	43	55	46
21 May 04	17:30	49	64	44	51	46
21 May 04	17:45	47	62	43	49	44
21 May 04	18:00	55	78	43	51	45
21 May 04	18:15	52	70	43	52	45
21 May 04	18:30	52	69	43	54	45
21 May 04	18:45	48	68	43	49	45
21 May 04	19:00	47	63	43	49	45
21 May 04	19:15	49	62	43	50	46
21 May 04	19:30	55	76	43	53	46
21 May 04	19:45	48	61	43	50	45
21 May 04	20:00	48	63	42	49	44
21 May 04	20:15	51	71	42	49	44
21 May 04	20:30	48	67	41	49	43
21 May 04	20:45	45	53	41	46	43
21 May 04	21:00	46	57	42	48	43
21 May 04	21:15	47	60	41	49	43
21 May 04	21:30	45	66	40	47	43
21 May 04	21:45	45	69	40	47	42
21 May 04	22:00	44	55	40	46	42
21 May 04	22:15	44	58	41	45	42
21 May 04	22:30	47	63	40	48	42
21 May 04	22:45	45	58	41	47	43
21 May 04	23:00	44	56	40	46	42
21 May 04	23:15	43	51	40	45	41
21 May 04	23:30	44	51	40	45	42
21 May 04	23:45	43	54	41	45	42
22 May 04	00:00	44	59	41	46	42
22 May 04	00:15	45	56	42	47	43
22 May 04	00:30	45	57	40	46	43
22 May 04	00:45	43	57	39	44	41
22 May 04	01:00	42	47	39	43	40
22 May 04	01:15	40	46	36	41	38
22 May 04	01:30	39	45	36	41	37
22 May 04	01:45	38	43	35	39	37
22 May 04	02:00	39	43	36	40	38
22 May 04	02:15	41	48	36	43	38
22 May 04	02:30	40	47	37	42	39
22 May 04	02:45	39	44	36	40	37
22 May 04	03:00	40	45	37	41	39
22 May 04	03:15	39	43	36	40	37
22 May 04	03:30	39	54	37	41	38
22 May 04	03:45	42	71	34	40	36
22 May 04	04:00	48	67	34	53	36
22 May 04	04:15	44	61	33	48	36
22 May 04	04:30	42	66	34	43	37
22 May 04	04:45	40	57	33	41	36
22 May 04	05:00	39	51	33	41	36
22 May 04	05:15	40	54	34	42	37
22 May 04	05:30	44	61	34	48	36
22 May 04	05:45	44	68	34	44	37
22 May 04	06:00	48	68	35	45	37

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
22 May 04	06:15	43	58	35	47	37
22 May 04	06:30	42	56	36	43	38
22 May 04	06:45	45	59	37	49	39
22 May 04	07:00	47	72	37	45	39
22 May 04	07:15	46	68	37	48	40
22 May 04	07:30	43	59	38	44	40
22 May 04	07:45	49	75	39	50	42
22 May 04	08:00	47	59	39	50	42
22 May 04	08:15	46	66	39	48	41
22 May 04	08:30	48	64	40	51	44
22 May 04	08:45	49	62	42	52	45
22 May 04	09:00	50	58	43	52	46
22 May 04	09:15	50	63	44	52	47
22 May 04	09:30	52	72	45	55	48
22 May 04	09:45	53	69	44	55	47
22 May 04	10:00	51	63	45	53	47
22 May 04	10:15	51	61	45	54	47
22 May 04	10:30	51	67	45	52	47
22 May 04	10:45	50	71	45	52	48
22 May 04	11:00	51	75	46	52	48
22 May 04	11:15	51	61	46	53	49
22 May 04	11:30	51	60	46	53	48
22 May 04	11:45	51	62	47	53	49
22 May 04	12:00	52	66	48	55	50
22 May 04	12:15	53	69	47	54	50
22 May 04	12:30	54	65	46	57	49
22 May 04	12:45	55	77	45	58	47
22 May 04	13:00	49	70	42	51	44
22 May 04	13:15	52	70	42	56	44
22 May 04	13:30	54	62	40	58	44
22 May 04	13:45	52	65	40	56	43
22 May 04	14:00	51	84	39	48	42
22 May 04	14:15	46	59	39	48	42
22 May 04	14:30	50	70	39	49	43
22 May 04	14:45	47	65	40	50	42
22 May 04	15:00	44	54	40	46	42
22 May 04	15:15	47	63	40	50	42
22 May 04	15:30	48	66	39	50	42
22 May 04	15:45	44	61	39	46	41
22 May 04	16:00	45	63	38	48	41
22 May 04	16:15	47	78	37	44	39
22 May 04	16:30	43	58	38	45	40
22 May 04	16:45	41	50	36	44	38
22 May 04	17:00	42	53	37	45	39
22 May 04	17:15	40	46	37	42	38
22 May 04	17:30	41	49	35	43	38
22 May 04	17:45	42	63	35	41	38
22 May 04	18:00	42	67	35	43	37
22 May 04	18:15	47	69	35	47	37
22 May 04	18:30	40	54	35	43	37
22 May 04	18:45	42	54	35	44	37
22 May 04	19:00	46	73	36	46	37

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
22 May 04	19:15	46	69	35	45	37
22 May 04	19:30	41	57	35	44	37
22 May 04	19:45	44	70	36	45	38
22 May 04	20:00	43	65	36	44	38
22 May 04	20:15	48	73	36	44	38
22 May 04	20:30	42	60	38	43	39
22 May 04	20:45	43	61	38	44	40
22 May 04	21:00	42	53	38	43	40
22 May 04	21:15	43	65	38	43	40
22 May 04	21:30	42	52	38	44	41
22 May 04	21:45	43	52	40	45	42
22 May 04	22:00	46	71	39	45	42
22 May 04	22:15	42	47	37	43	39
22 May 04	22:30	40	58	37	42	38
22 May 04	22:45	40	49	38	42	39
22 May 04	23:00	41	47	38	43	40
22 May 04	23:15	42	53	37	43	40
22 May 04	23:30	40	46	36	42	38
22 May 04	23:45	40	47	36	42	38
23 May 04	00:00	42	47	36	44	38
23 May 04	00:15	44	48	41	46	43
23 May 04	00:30	45	50	42	46	44
23 May 04	00:45	43	50	39	45	41
23 May 04	01:00	42	47	38	44	40
23 May 04	01:15	41	50	38	42	40
23 May 04	01:30	42	51	38	44	40
23 May 04	01:45	53	71	38	54	41
23 May 04	02:00	46	62	37	45	40
23 May 04	02:15	42	49	39	43	41
23 May 04	02:30	43	51	38	44	40
23 May 04	02:45	43	48	39	45	41
23 May 04	03:00	44	50	41	46	42
23 May 04	03:15	43	47	39	44	41
23 May 04	03:30	41	47	38	43	40
23 May 04	03:45	42	52	39	44	41
23 May 04	04:00	52	69	39	53	41
23 May 04	04:15	61	75	41	67	43
23 May 04	04:30	54	73	39	52	42
23 May 04	04:45	43	54	39	45	42
23 May 04	05:00	43	52	39	45	41
23 May 04	05:15	46	59	40	47	43
23 May 04	05:30	45	55	40	46	43
23 May 04	05:45	44	57	38	45	40
23 May 04	06:00	41	56	38	43	39
23 May 04	06:15	42	60	37	43	39
23 May 04	06:30	42	61	37	44	38
23 May 04	06:45	45	69	37	42	39
23 May 04	07:00	44	64	36	46	37
23 May 04	07:15	45	67	36	47	37
23 May 04	07:30	44	61	36	47	37
23 May 04	07:45	43	65	34	43	37
23 May 04	08:00	42	70	34	43	37

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
23 May 04	08:15	53	78	35	48	37
23 May 04	08:30	41	53	35	45	37
23 May 04	08:45	42	60	36	45	37
23 May 04	09:00	53	81	35	46	37
23 May 04	09:15	47	69	35	46	37
23 May 04	09:30	39	55	36	41	37
23 May 04	09:45	40	60	35	41	37
23 May 04	10:00	50	72	36	44	38
23 May 04	10:15	40	51	36	41	38
23 May 04	10:30	53	74	36	50	38
23 May 04	10:45	42	58	38	44	40
23 May 04	11:00	44	64	38	44	40
23 May 04	11:15	43	69	37	45	40
23 May 04	11:30	52	72	37	46	40
23 May 04	11:45	52	73	38	47	41
23 May 04	12:00	43	55	38	46	41
23 May 04	12:15	54	75	38	49	41
23 May 04	12:30	45	56	37	48	40
23 May 04	12:45	44	54	38	46	41
23 May 04	13:00	52	73	40	51	43
23 May 04	13:15	50	67	40	51	42
23 May 04	13:30	51	72	39	49	41
23 May 04	13:45	45	66	40	47	42
23 May 04	14:00	45	55	39	47	41
23 May 04	14:15	46	58	38	48	41
23 May 04	14:30	52	73	39	50	42
23 May 04	14:45	45	56	39	47	42
23 May 04	15:00	46	70	39	48	42
23 May 04	15:15	46	62	41	48	43
23 May 04	15:30	46	59	40	48	43
23 May 04	15:45	45	58	40	48	42
23 May 04	16:00	47	58	40	50	43
23 May 04	16:15	44	58	39	46	41
23 May 04	16:30	45	66	39	46	41
23 May 04	16:45	48	70	40	48	42
23 May 04	17:00	45	59	38	48	41
23 May 04	17:15	45	54	39	47	41
23 May 04	17:30	44	57	39	46	41
23 May 04	17:45	45	58	40	47	42
23 May 04	18:00	51	70	38	46	40
23 May 04	18:15	47	68	37	46	41
23 May 04	18:30	44	54	40	46	42
23 May 04	18:45	46	61	40	47	42
23 May 04	19:00	47	71	40	47	42
23 May 04	19:15	45	58	40	46	42
23 May 04	19:30	44	66	39	44	40
23 May 04	19:45	46	70	39	46	41
23 May 04	20:00	45	66	39	46	41
23 May 04	20:15	48	64	38	50	41
23 May 04	20:30	44	63	38	45	41
23 May 04	20:45	45	61	38	45	40
23 May 04	21:00	43	59	37	43	40

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
23 May 04	21:15	46	68	38	46	40
23 May 04	21:30	44	59	38	44	40
23 May 04	21:45	42	51	38	44	40
23 May 04	22:00	42	61	37	44	40
23 May 04	22:15	42	49	35	44	39
23 May 04	22:30	42	47	37	44	39
23 May 04	22:45	40	53	35	41	37
23 May 04	23:00	42	53	35	44	38
23 May 04	23:15	39	44	33	41	36
23 May 04	23:30	36	45	33	37	35
23 May 04	23:45	39	61	33	40	34
24 May 04	00:00	35	45	32	37	33
24 May 04	00:15	35	46	31	37	33
24 May 04	00:30	34	46	29	36	32
24 May 04	00:45	38	47	31	41	33
24 May 04	01:00	35	47	30	37	32
24 May 04	01:15	35	55	30	37	31
24 May 04	01:30	34	43	29	36	31
24 May 04	01:45	32	48	28	33	30
24 May 04	02:00	32	48	28	33	29
24 May 04	02:15	30	39	27	32	28
24 May 04	02:30	38	55	27	43	28
24 May 04	02:45	35	62	26	33	28
24 May 04	03:00	30	45	27	31	29
24 May 04	03:15	31	46	28	32	29
24 May 04	03:30	40	57	28	45	30
24 May 04	03:45	30	40	27	33	28
24 May 04	04:00	56	74	28	62	30
24 May 04	04:15	55	73	29	56	31
24 May 04	04:30	57	69	30	49	34
24 May 04	04:45	39	58	29	42	33
24 May 04	05:00	37	55	31	40	33
24 May 04	05:15	43	64	31	42	34
24 May 04	05:30	42	67	32	43	34
24 May 04	05:45	42	53	33	45	36
24 May 04	06:00	42	60	34	46	36
24 May 04	06:15	41	56	34	44	36
24 May 04	06:30	45	62	37	47	38
24 May 04	06:45	48	68	38	51	40
24 May 04	07:00	47	64	38	47	40
24 May 04	07:15	46	64	40	48	42
24 May 04	07:30	47	65	40	49	43
24 May 04	07:45	46	66	40	48	42
24 May 04	08:00	45	62	39	47	42
24 May 04	08:15	46	63	40	48	42
24 May 04	08:30	46	63	40	49	42
24 May 04	08:45	47	66	40	47	42
24 May 04	09:00	54	70	40	57	42
24 May 04	09:15	48	71	41	49	42
24 May 04	09:30	46	68	40	48	42
24 May 04	09:45	46	60	41	48	43
24 May 04	10:00	46	61	42	48	43

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
24 May 04	10:15	48	66	42	49	44
24 May 04	10:30	49	66	42	50	45
24 May 04	10:45	47	58	42	49	45
24 May 04	11:00	48	61	44	49	45
24 May 04	11:15	47	58	43	49	45
24 May 04	11:30	49	65	44	51	46
24 May 04	11:45	49	64	44	51	46
24 May 04	12:00	48	59	44	50	46
24 May 04	12:15	51	73	44	53	47
24 May 04	12:30	51	63	45	53	47
24 May 04	12:45	51	64	45	53	47
24 May 04	13:00	50	66	45	52	47
24 May 04	13:15	50	69	45	51	47
24 May 04	13:30	50	63	45	52	47
24 May 04	13:45	49	62	45	51	47
24 May 04	14:00	49	70	43	51	45
24 May 04	14:15	49	71	44	50	46
24 May 04	14:30	53	70	44	51	46
24 May 04	14:45	54	78	45	53	47
24 May 04	15:00	54	79	45	55	48
24 May 04	15:15	53	81	45	53	47
24 May 04	15:30	50	68	45	52	46
24 May 04	15:45	48	59	44	50	46
24 May 04	16:00	54	85	45	53	47
24 May 04	16:15	49	64	46	51	47
24 May 04	16:30	49	65	45	50	47
24 May 04	16:45	48	67	44	50	46
24 May 04	17:00	52	71	45	54	47
24 May 04	17:15	51	67	44	52	46
24 May 04	17:30	52	73	46	53	48
24 May 04	17:45	52	67	45	53	48
24 May 04	18:00	49	68	43	51	46
24 May 04	18:15	48	68	43	49	45
24 May 04	18:30	53	72	44	55	46
24 May 04	18:45	49	64	42	51	44
24 May 04	19:00	47	66	42	49	43
24 May 04	19:15	47	69	42	49	44
24 May 04	19:30	44	64	41	45	43
24 May 04	19:45	48	72	41	48	43
24 May 04	20:00	43	62	39	44	41
24 May 04	20:15	43	62	39	43	40
24 May 04	20:30	44	66	39	46	41
24 May 04	20:45	43	63	39	43	41
24 May 04	21:00	43	54	39	44	41
24 May 04	21:15	43	70	39	43	41
24 May 04	21:30	42	49	38	43	40
24 May 04	21:45	41	55	37	42	39
24 May 04	22:00	42	50	39	43	41
24 May 04	22:15	42	55	39	43	41
24 May 04	22:30	42	55	38	43	40
24 May 04	22:45	42	56	39	43	40
24 May 04	23:00	41	54	38	42	39

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)				
		L _{Aeq}	L _{Amax}	L _{Amin}	L _{A10}	L _{A90}
24 May 04	23:15	41	54	38	43	39
24 May 04	23:30	42	54	39	43	40
24 May 04	23:45	40	54	37	41	39
25 May 04	00:00	39	49	36	40	37
25 May 04	00:15	41	57	35	42	37
25 May 04	00:30	42	55	37	44	40
25 May 04	00:45	43	56	40	44	42
25 May 04	01:00	44	62	41	45	43
25 May 04	01:15	44	65	40	45	42
25 May 04	01:30	45	61	42	47	43
25 May 04	01:45	44	58	40	46	42
25 May 04	02:00	43	52	40	43	41
25 May 04	02:15	42	50	40	43	41
25 May 04	02:30	41	54	38	43	40
25 May 04	02:45	40	51	37	41	39
25 May 04	03:00	40	43	38	40	39
25 May 04	03:15	41	47	37	43	39
25 May 04	03:30	42	50	37	46	39
25 May 04	03:45	40	45	38	41	39
25 May 04	04:00	53	75	38	46	39
25 May 04	04:15	59	73	38	66	40
25 May 04	04:30	59	73	38	65	40
25 May 04	04:45	44	64	38	46	41
25 May 04	05:00	46	66	39	48	41
25 May 04	05:15	44	62	39	46	41
25 May 04	05:30	46	69	40	48	42
25 May 04	05:45	48	63	40	51	43
25 May 04	06:00	48	62	41	49	43
25 May 04	06:15	49	70	40	49	43
25 May 04	06:30	49	72	41	50	43
25 May 04	06:45	49	69	42	51	44
25 May 04	07:00	48	65	42	49	44
25 May 04	07:15	49	67	44	50	46
25 May 04	07:30	49	67	43	51	46
25 May 04	07:45	49	65	44	51	46
25 May 04	08:00	49	64	45	51	47
25 May 04	08:15	50	67	45	52	47
25 May 04	08:30	50	68	46	51	47
25 May 04	08:45	50	67	45	51	47
25 May 04	09:00	48	65	44	49	46
25 May 04	09:15	48	60	43	50	45
25 May 04	09:30	48	60	43	50	45
25 May 04	09:45	52	72	44	54	46
25 May 04	10:00	50	68	44	51	46
25 May 04	10:15	49	59	44	51	46
25 May 04	10:30	50	67	44	52	47
25 May 04	10:45	50	64	45	52	47
25 May 04	11:00	52	65	48	53	49
25 May 04	11:15	53	66	49	54	51
25 May 04	11:30	51	66	47	52	49
25 May 04	11:45	54	74	45	55	48

Table A1 Phase 1 Continuous Noise Monitoring Results Location A

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
15-Jan-04	16:15	50	63	46	51	48
15-Jan-04	16:30	50	56	46	51	48
15-Jan-04	16:45	50	59	47	52	49
15-Jan-04	17:00	50	69	46	51	48
15-Jan-04	17:15	50	63	47	51	48
15-Jan-04	17:30	49	53	46	51	48
15-Jan-04	17:45	51	65	47	52	49
15-Jan-04	18:00	58	80	46	60	49
15-Jan-04	18:15	53	77	47	52	49
15-Jan-04	18:30	52	74	47	52	48
15-Jan-04	18:45	51	67	47	52	48
15-Jan-04	19:00	51	70	46	52	48
15-Jan-04	19:15	60	83	47	53	48
15-Jan-04	19:30	54	85	46	53	48
15-Jan-04	19:45	53	78	46	53	48
15-Jan-04	20:00	51	71	46	52	48
15-Jan-04	20:15	52	70	46	52	48
15-Jan-04	20:30	53	76	46	54	48
15-Jan-04	20:45	52	73	46	53	48
15-Jan-04	21:00	54	79	46	55	49
15-Jan-04	21:15	54	81	47	55	50
15-Jan-04	21:30	54	86	50	56	51
15-Jan-04	21:45	55	86	50	57	52
15-Jan-04	22:00	56	73	50	58	51
15-Jan-04	22:15	59	76	50	62	52
15-Jan-04	22:30	63	86	49	66	53
15-Jan-04	22:45	57	73	47	60	50
15-Jan-04	23:00	53	73	44	56	46
15-Jan-04	23:15	54	71	43	58	45
15-Jan-04	23:30	51	72	42	54	44
15-Jan-04	23:45	51	74	43	53	45
16-Jan-04	00:00	53	69	43	56	46
16-Jan-04	00:15	56	74	44	60	48
16-Jan-04	00:30	55	74	43	59	47
16-Jan-04	00:45	54	76	44	55	46
16-Jan-04	01:00	53	72	42	56	45
16-Jan-04	01:15	65	90	43	63	45
16-Jan-04	01:30	77	100	46	79	55
16-Jan-04	01:45	71	92	41	75	50
16-Jan-04	02:00	74	92	43	78	53
16-Jan-04	02:15	68	90	39	71	46
16-Jan-04	02:30	68	89	38	71	44
16-Jan-04	02:45	70	89	40	73	48
16-Jan-04	03:00	64	85	39	68	43
16-Jan-04	03:15	67	93	39	70	45
16-Jan-04	03:30	65	87	39	69	44
16-Jan-04	03:45	69	91	39	72	45
16-Jan-04	04:00	66	85	39	70	44
16-Jan-04	04:15	65	88	38	68	43

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
16-Jan-04	04:30	64	89	39	67	43
16-Jan-04	04:45	64	85	40	66	43
16-Jan-04	05:00	61	86	39	61	42
16-Jan-04	05:15	61	85	40	64	43
16-Jan-04	05:30	61	90	41	63	44
16-Jan-04	05:45	60	85	40	63	44
16-Jan-04	06:00	61	85	42	64	45
16-Jan-04	06:15	59	80	43	61	45
16-Jan-04	06:30	61	85	45	63	47
16-Jan-04	06:45	63	85	46	65	48
16-Jan-04	07:00	62	82	47	66	49
16-Jan-04	07:15	61	82	48	64	50
16-Jan-04	07:30	58	83	48	61	49
16-Jan-04	07:45	56	80	47	58	48
16-Jan-04	08:00	59	86	47	58	48
16-Jan-04	08:15	58	81	47	60	49
16-Jan-04	08:30	59	80	48	61	49
16-Jan-04	08:45	60	81	48	64	50
16-Jan-04	09:00	58	78	48	62	50
16-Jan-04	09:15	60	85	48	63	49
16-Jan-04	09:30	60	79	48	63	49
16-Jan-04	09:45	58	78	48	61	49
16-Jan-04	10:00	60	84	46	62	48
16-Jan-04	10:15	58	79	46	60	48
16-Jan-04	10:30	56	80	46	58	48
16-Jan-04	10:45	56	73	46	59	47
16-Jan-04	11:00	57	83	45	59	47
16-Jan-04	11:15	57	76	45	59	47
16-Jan-04	11:30	53	73	46	55	48
16-Jan-04	11:45	54	75	46	57	48
16-Jan-04	12:00	55	75	44	54	47
16-Jan-04	12:15	53	74	44	53	46
16-Jan-04	12:30	54	70	44	56	47
16-Jan-04	12:45	56	78	44	58	46
16-Jan-04	13:00	53	73	43	56	46
16-Jan-04	13:15	56	79	44	59	46
16-Jan-04	13:30	59	80	45	61	46
16-Jan-04	13:45	56	78	44	58	46
16-Jan-04	14:00	57	82	44	59	45
16-Jan-04	14:15	55	77	44	57	46
16-Jan-04	14:30	54	74	44	56	46
16-Jan-04	14:45	57	78	44	59	46
16-Jan-04	15:00	60	80	45	62	47
16-Jan-04	15:15	56	76	45	58	47
16-Jan-04	15:30	59	86	44	59	46
16-Jan-04	15:45	55	76	44	56	46
16-Jan-04	16:00	56	77	45	57	46
16-Jan-04	16:15	57	81	44	58	46
16-Jan-04	16:30	52	73	45	53	46

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
16-Jan-04	16:45	49	70	44	51	45
16-Jan-04	17:00	48	63	45	50	46
16-Jan-04	17:15	48	69	44	49	45
16-Jan-04	17:30	49	63	44	51	45
16-Jan-04	17:45	49	69	45	49	45
16-Jan-04	18:00	48	64	44	48	45
16-Jan-04	18:15	50	72	45	50	46
16-Jan-04	18:30	48	61	44	49	46
16-Jan-04	18:45	49	62	45	50	46
16-Jan-04	19:00	47	60	44	48	46
16-Jan-04	19:15	50	69	44	52	46
16-Jan-04	19:30	52	73	44	53	45
16-Jan-04	19:45	51	75	44	52	45
16-Jan-04	20:00	53	82	44	54	45
16-Jan-04	20:15	54	78	44	55	46
16-Jan-04	20:30	52	73	44	54	45
16-Jan-04	20:45	52	72	43	53	46
16-Jan-04	21:00	54	78	44	56	45
16-Jan-04	21:15	51	69	43	54	45
16-Jan-04	21:30	53	75	43	55	44
16-Jan-04	21:45	54	79	43	56	44
16-Jan-04	22:00	49	71	42	50	44
16-Jan-04	22:15	48	69	42	49	43
16-Jan-04	22:30	48	70	41	48	43
16-Jan-04	22:45	48	70	41	50	43
16-Jan-04	23:00	49	77	41	48	42
16-Jan-04	23:15	46	65	41	48	42
16-Jan-04	23:30	47	67	40	48	42
16-Jan-04	23:45	48	69	41	49	42
17-Jan-04	00:00	47	64	40	48	41
17-Jan-04	00:15	47	65	40	50	42
17-Jan-04	00:30	46	66	39	48	41
17-Jan-04	00:45	45	68	39	46	40
17-Jan-04	01:00	46	67	38	48	40
17-Jan-04	01:15	44	65	39	44	40
17-Jan-04	01:30	45	62	38	47	40
17-Jan-04	01:45	42	59	38	44	39
17-Jan-04	02:00	42	62	38	42	39
17-Jan-04	02:15	42	61	37	42	39
17-Jan-04	02:30	41	63	38	42	39
17-Jan-04	02:45	41	58	37	42	39
17-Jan-04	03:00	41	59	37	42	38
17-Jan-04	03:15	40	62	37	42	38
17-Jan-04	03:30	43	59	38	45	40
17-Jan-04	03:45	42	61	38	43	40
17-Jan-04	04:00	43	53	39	45	41
17-Jan-04	04:15	43	54	39	44	41
17-Jan-04	04:30	42	48	39	44	41
17-Jan-04	04:45	42	49	38	44	40

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
17-Jan-04	05:00	40	54	37	41	39
17-Jan-04	05:15	41	59	37	42	39
17-Jan-04	05:30	42	57	38	44	39
17-Jan-04	05:45	42	58	38	44	40
17-Jan-04	06:00	44	60	38	43	40
17-Jan-04	06:15	43	54	39	45	41
17-Jan-04	06:30	44	64	39	45	41
17-Jan-04	06:45	48	62	40	51	41
17-Jan-04	07:00	43	61	40	44	41
17-Jan-04	07:15	45	58	41	47	42
17-Jan-04	07:30	47	64	42	48	43
17-Jan-04	07:45	47	68	44	48	45
17-Jan-04	08:00	49	61	45	51	47
17-Jan-04	08:15	48	57	44	49	46
17-Jan-04	08:30	47	65	44	48	46
17-Jan-04	08:45	50	63	46	52	47
17-Jan-04	09:00	48	64	45	49	46
17-Jan-04	09:15	48	64	45	49	47
17-Jan-04	09:30	49	60	46	50	47
17-Jan-04	09:45	49	62	45	50	47
17-Jan-04	10:00	48	64	44	49	46
17-Jan-04	10:15	47	59	43	48	45
17-Jan-04	10:30	48	62	43	51	45
17-Jan-04	10:45	48	64	44	50	45
17-Jan-04	11:00	50	72	45	50	46
17-Jan-04	11:15	53	72	46	55	48
17-Jan-04	11:30	53	71	46	55	47
17-Jan-04	11:45	51	70	46	53	47
17-Jan-04	12:00	53	72	46	54	48
17-Jan-04	12:15	55	79	47	56	49
17-Jan-04	12:30	56	86	46	59	48
17-Jan-04	12:45	49	64	44	51	45
17-Jan-04	13:00	47	64	43	48	44
17-Jan-04	13:15	51	71	44	52	45
17-Jan-04	13:30	52	71	43	52	45
17-Jan-04	13:45	50	69	44	53	45
17-Jan-04	14:00	53	72	43	56	45
17-Jan-04	14:15	56	79	43	58	45
17-Jan-04	14:30	52	73	44	55	45
17-Jan-04	14:45	52	69	42	55	44
17-Jan-04	15:00	50	71	42	53	44
17-Jan-04	15:15	52	71	41	55	45
17-Jan-04	15:30	50	70	43	51	44
17-Jan-04	15:45	50	73	42	51	44
17-Jan-04	16:00	52	72	44	55	46
17-Jan-04	16:15	48	68	43	50	45
17-Jan-04	16:30	54	78	44	56	45
17-Jan-04	16:45	55	73	45	58	46
17-Jan-04	17:00	55	75	45	58	46

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
17-Jan-04	17:15	52	73	45	54	46
17-Jan-04	17:30	48	64	44	50	45
17-Jan-04	17:45	47	62	44	48	45
17-Jan-04	18:00	46	55	43	47	45
17-Jan-04	18:15	46	57	43	47	44
17-Jan-04	18:30	47	55	44	48	45
17-Jan-04	18:45	46	59	43	47	44
17-Jan-04	19:00	47	63	44	48	46
17-Jan-04	19:15	49	62	46	50	47
17-Jan-04	19:30	48	63	44	50	46
17-Jan-04	19:45	47	62	42	48	43
17-Jan-04	20:00	48	67	43	49	45
17-Jan-04	20:15	45	56	43	46	44
17-Jan-04	20:30	45	60	42	47	43
17-Jan-04	20:45	46	59	43	47	44
17-Jan-04	21:00	48	62	41	47	43
17-Jan-04	21:15	47	80	41	45	43
17-Jan-04	21:30	45	53	42	47	43
17-Jan-04	21:45	44	53	41	46	42
17-Jan-04	22:00	43	53	40	45	42
17-Jan-04	22:15	46	56	40	49	42
17-Jan-04	22:30	53	60	43	55	49
17-Jan-04	22:45	49	60	40	53	42
17-Jan-04	23:00	44	52	40	46	42
17-Jan-04	23:15	46	61	40	49	42
17-Jan-04	23:30	44	62	40	46	42
17-Jan-04	23:45	42	49	39	43	41
18-Jan-04	00:00	42	59	39	43	40
18-Jan-04	00:15	42	63	38	43	40
18-Jan-04	00:30	42	60	39	43	40
18-Jan-04	00:45	41	56	38	42	40
18-Jan-04	01:00	42	57	39	43	40
18-Jan-04	01:15	41	55	38	42	39
18-Jan-04	01:30	43	63	38	43	39
18-Jan-04	01:45	41	59	38	42	39
18-Jan-04	02:00	42	56	38	43	39
18-Jan-04	02:15	42	60	38	43	40
18-Jan-04	02:30	42	60	38	43	39
18-Jan-04	02:45	41	55	37	42	39
18-Jan-04	03:00	41	55	37	42	39
18-Jan-04	03:15	40	57	37	42	39
18-Jan-04	03:30	40	50	38	41	39
18-Jan-04	03:45	41	49	38	42	39
18-Jan-04	04:00	40	46	37	41	39
18-Jan-04	04:15	40	51	37	41	38
18-Jan-04	04:30	41	53	38	42	39
18-Jan-04	04:45	41	46	38	42	39
18-Jan-04	05:00	40	52	38	41	39
18-Jan-04	05:15	41	51	38	42	39

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
18-Jan-04	05:30	41	50	38	42	40
18-Jan-04	05:45	41	48	39	42	40
18-Jan-04	06:00	42	47	40	43	41
18-Jan-04	06:15	40	45	38	42	39
18-Jan-04	06:30	42	49	38	43	40
18-Jan-04	06:45	41	50	38	43	40
18-Jan-04	07:00	44	58	39	43	41
18-Jan-04	07:15	43	55	39	46	40
18-Jan-04	07:30	44	56	40	46	41
18-Jan-04	07:45	45	53	41	46	42
18-Jan-04	08:00	44	52	40	46	42
18-Jan-04	08:15	44	53	40	45	42
18-Jan-04	08:30	44	57	40	46	42
18-Jan-04	08:45	49	73	41	46	43
18-Jan-04	09:00	48	68	41	47	43
18-Jan-04	09:15	45	57	41	46	43
18-Jan-04	09:30	46	63	42	47	44
18-Jan-04	09:45	46	68	43	47	44
18-Jan-04	10:00	45	57	43	47	44
18-Jan-04	10:15	46	56	43	47	44
18-Jan-04	10:30	46	57	43	47	44
18-Jan-04	10:45	46	60	42	47	44
18-Jan-04	11:00	46	62	42	47	44
18-Jan-04	11:15	46	69	42	47	44
18-Jan-04	11:30	55	78	41	47	43
18-Jan-04	11:45	46	66	42	47	43
18-Jan-04	12:00	46	59	43	48	45
18-Jan-04	12:15	47	62	44	48	45
18-Jan-04	12:30	48	71	42	48	44
18-Jan-04	12:45	46	63	42	47	44
18-Jan-04	13:00	49	73	43	49	44
18-Jan-04	13:15	54	76	42	56	45
18-Jan-04	13:30	53	76	42	54	45
18-Jan-04	13:45	51	76	43	53	45
18-Jan-04	14:00	49	69	43	50	45
18-Jan-04	14:15	50	70	43	51	45
18-Jan-04	14:30	51	71	43	53	45
18-Jan-04	14:45	51	72	44	53	46
18-Jan-04	15:00	50	71	44	51	46
18-Jan-04	15:15	50	69	44	52	46
18-Jan-04	15:30	49	64	44	50	46
18-Jan-04	15:45	48	64	44	49	45
18-Jan-04	16:00	49	72	43	49	45
18-Jan-04	16:15	51	72	44	52	46
18-Jan-04	16:30	50	75	43	49	45
18-Jan-04	16:45	48	64	43	50	45
18-Jan-04	17:00	49	70	43	51	45
18-Jan-04	17:15	51	74	43	52	45
18-Jan-04	17:30	51	70	43	53	45

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
18-Jan-04	17:45	53	73	43	55	45
18-Jan-04	18:00	55	78	43	57	46
18-Jan-04	18:15	57	88	44	58	47
18-Jan-04	18:30	56	80	44	59	46
18-Jan-04	18:45	53	74	44	55	46
18-Jan-04	19:00	57	88	43	57	46
18-Jan-04	19:15	56	76	43	58	45
18-Jan-04	19:30	56	80	43	56	46
18-Jan-04	19:45	55	78	44	57	46
18-Jan-04	20:00	56	77	44	59	46
18-Jan-04	20:15	55	77	45	57	46
18-Jan-04	20:30	58	81	45	59	47
18-Jan-04	20:45	62	84	44	63	47
18-Jan-04	21:00	61	87	45	63	48
18-Jan-04	21:15	61	86	43	63	46
18-Jan-04	21:30	60	85	43	62	46
18-Jan-04	21:45	60	85	43	62	46
18-Jan-04	22:00	59	81	43	61	46
18-Jan-04	22:15	56	76	42	59	44
18-Jan-04	22:30	61	81	42	63	45
18-Jan-04	22:45	60	85	42	63	45
18-Jan-04	23:00	62	82	42	65	45
18-Jan-04	23:15	63	84	44	65	47
18-Jan-04	23:30	61	83	44	65	47
18-Jan-04	23:45	65	86	42	68	47
19-Jan-04	00:00	63	82	42	66	46
19-Jan-04	00:15	65	95	43	68	47
19-Jan-04	00:30	63	86	41	66	46
19-Jan-04	00:45	63	86	41	65	45
19-Jan-04	01:00	64	87	41	67	47
19-Jan-04	01:15	67	96	42	68	46
19-Jan-04	01:30	65	90	41	67	45
19-Jan-04	01:45	66	87	41	68	45
19-Jan-04	02:00	64	88	40	66	44
19-Jan-04	02:15	65	92	40	66	43
19-Jan-04	02:30	60	82	39	63	42
19-Jan-04	02:45	61	84	40	63	43
19-Jan-04	03:00	62	86	39	64	43
19-Jan-04	03:15	64	88	40	66	45
19-Jan-04	03:30	65	89	40	67	45
19-Jan-04	03:45	61	83	39	63	42
19-Jan-04	04:00	63	86	39	64	43
19-Jan-04	04:15	62	83	41	64	45
19-Jan-04	04:30	64	88	42	66	46
19-Jan-04	04:45	67	98	43	67	45
19-Jan-04	05:00	66	89	42	67	47
19-Jan-04	05:15	70	92	43	73	48
19-Jan-04	05:30	68	89	43	70	49
19-Jan-04	05:45	68	93	44	69	47

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
19-Jan-04	06:00	69	92	44	72	48
19-Jan-04	06:15	66	86	44	69	48
19-Jan-04	06:30	68	91	46	70	49
19-Jan-04	06:45	66	91	46	68	50
19-Jan-04	07:00	70	95	48	72	51
19-Jan-04	07:15	68	89	49	71	51
19-Jan-04	07:30	69	95	49	71	51
19-Jan-04	07:45	63	85	47	66	50
19-Jan-04	08:00	64	88	48	67	50
19-Jan-04	08:15	64	87	48	66	50
19-Jan-04	08:30	66	89	49	69	51
19-Jan-04	08:45	69	89	49	71	51
19-Jan-04	09:00	67	90	49	70	51
19-Jan-04	09:15	67	87	49	70	51
19-Jan-04	09:30	69	92	49	71	52
19-Jan-04	09:45	67	91	49	70	51
19-Jan-04	10:00	63	83	48	66	50
19-Jan-04	10:15	65	92	48	66	50
19-Jan-04	10:30	65	94	48	67	50
19-Jan-04	10:45	65	95	48	64	49
19-Jan-04	11:00	66	91	48	67	50
19-Jan-04	11:15	71	106	47	68	50
19-Jan-04	11:30	62	83	47	65	49
19-Jan-04	11:45	63	90	47	64	50
19-Jan-04	12:00	65	84	48	68	50
19-Jan-04	12:15	63	85	48	65	50
19-Jan-04	12:30	64	85	48	67	50
19-Jan-04	12:45	62	81	47	65	50
19-Jan-04	13:00	64	88	48	66	50
19-Jan-04	13:15	67	93	48	68	50
19-Jan-04	13:30	69	92	47	72	52
19-Jan-04	13:45	70	93	52	73	54
19-Jan-04	14:00	72	95	51	74	54
19-Jan-04	14:15	70	90	51	72	57
19-Jan-04	14:30	66	89	48	69	53
19-Jan-04	14:45	66	88	49	69	52
19-Jan-04	15:00	71	106	44	72	49
19-Jan-04	15:15	60	84	43	63	46
19-Jan-04	15:30	66	96	43	65	46
19-Jan-04	15:45	60	87	44	59	46
19-Jan-04	16:00	62	87	42	61	45
19-Jan-04	16:15	61	84	43	61	45
19-Jan-04	16:30	57	83	43	57	44
19-Jan-04	16:45	57	84	43	57	44
19-Jan-04	17:00	61	88	43	60	45
19-Jan-04	17:15	65	94	43	64	45
19-Jan-04	17:30	58	83	41	57	44
19-Jan-04	17:45	59	84	41	58	44
19-Jan-04	18:00	65	90	42	65	44

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
19-Jan-04	18:15	59	84	42	58	44
19-Jan-04	18:30	62	87	42	62	44
19-Jan-04	18:45	59	81	42	59	44
19-Jan-04	19:00	58	82	41	58	43
19-Jan-04	19:15	59	88	42	58	44
19-Jan-04	19:30	61	87	42	61	44
19-Jan-04	19:45	58	88	41	57	43
19-Jan-04	20:00	60	86	41	58	42
19-Jan-04	20:15	58	81	39	59	43
19-Jan-04	20:30	55	80	39	54	41
19-Jan-04	20:45	55	81	39	56	41
19-Jan-04	21:00	53	79	39	52	41
19-Jan-04	21:15	53	77	39	52	41
19-Jan-04	21:30	52	78	37	50	40
19-Jan-04	21:45	55	81	38	54	40
19-Jan-04	22:00	57	83	38	52	39
19-Jan-04	22:15	48	73	37	49	39
19-Jan-04	22:30	51	77	37	52	39
19-Jan-04	22:45	51	78	37	50	39
19-Jan-04	23:00	56	79	36	56	39
19-Jan-04	23:15	53	81	36	53	39
19-Jan-04	23:30	56	80	36	54	38
19-Jan-04	23:45	52	75	36	52	38
20-Jan-04	00:00	50	74	35	48	37
20-Jan-04	00:15	54	78	35	52	37
20-Jan-04	00:30	55	81	35	51	37
20-Jan-04	00:45	43	68	34	42	35
20-Jan-04	01:00	47	71	33	46	35
20-Jan-04	01:15	52	82	33	48	35
20-Jan-04	01:30	47	72	32	46	35
20-Jan-04	01:45	52	82	32	50	35
20-Jan-04	02:00	47	69	33	47	35
20-Jan-04	02:15	54	79	32	54	35
20-Jan-04	02:30	51	76	32	51	34
20-Jan-04	02:45	52	75	33	52	35
20-Jan-04	03:00	52	77	33	52	35
20-Jan-04	03:15	51	73	33	52	35
20-Jan-04	03:30	52	76	33	50	35
20-Jan-04	03:45	48	76	34	48	35
20-Jan-04	04:00	50	75	32	50	34
20-Jan-04	04:15	54	83	33	50	35
20-Jan-04	04:30	52	77	34	49	36
20-Jan-04	04:45	55	81	35	50	37
20-Jan-04	05:00	49	72	36	48	38
20-Jan-04	05:15	50	73	36	49	38
20-Jan-04	05:30	49	78	36	49	39
20-Jan-04	05:45	52	78	37	48	40
20-Jan-04	06:00	48	72	37	49	40
20-Jan-04	06:15	51	75	38	50	41

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
20-Jan-04	06:30	54	83	39	50	42
20-Jan-04	06:45	51	75	41	51	43
20-Jan-04	07:00	56	81	41	55	43
20-Jan-04	07:15	53	77	42	53	44
20-Jan-04	07:30	53	79	42	53	44
20-Jan-04	07:45	51	77	42	51	44
20-Jan-04	08:00	51	76	42	49	44
20-Jan-04	08:15	48	69	42	49	43
20-Jan-04	08:30	52	83	41	51	43
20-Jan-04	08:45	54	78	42	54	44
20-Jan-04	09:00	53	82	42	51	44
20-Jan-04	09:15	54	78	43	53	44
20-Jan-04	09:30	52	72	43	52	46
20-Jan-04	09:45	54	80	44	54	46
20-Jan-04	10:00	61	80	48	59	50
20-Jan-04	10:15	51	60	49	53	50
20-Jan-04	10:16	51	78	47	52	49
20-Jan-04	10:30	52	69	48	53	50
20-Jan-04	10:45	53	78	48	54	50
20-Jan-04	11:00	61	81	49	58	50
20-Jan-04	11:15	55	72	49	57	51
20-Jan-04	11:30	55	74	49	57	51
20-Jan-04	11:45	54	71	48	56	50
20-Jan-04	12:00	61	83	47	54	50
20-Jan-04	12:15	51	68	47	53	49
20-Jan-04	12:30	74	97	48	76	50
20-Jan-04	12:45	60	80	47	64	49
20-Jan-04	13:00	55	78	47	54	48
20-Jan-04	13:15	55	78	46	54	48
20-Jan-04	13:30	50	65	47	51	48
20-Jan-04	13:45	49	60	47	51	48
20-Jan-04	14:00	51	65	47	52	48
20-Jan-04	14:15	59	83	47	57	48
20-Jan-04	14:30	66	84	46	70	48
20-Jan-04	14:45	56	71	46	60	49
20-Jan-04	15:00	57	75	47	60	49
20-Jan-04	15:15	58	76	46	58	49
20-Jan-04	15:30	51	67	47	53	48
20-Jan-04	15:45	52	77	46	51	47
20-Jan-04	16:00	49	62	46	50	47
20-Jan-04	16:15	49	62	45	51	47
20-Jan-04	16:30	48	60	45	50	46
20-Jan-04	16:45	49	63	45	50	47
20-Jan-04	17:00	48	56	45	49	46
20-Jan-04	17:15	47	58	44	48	46
20-Jan-04	17:30	47	55	44	48	45
20-Jan-04	17:45	47	55	44	48	45
20-Jan-04	18:00	47	59	43	48	45
20-Jan-04	18:15	47	54	44	48	45

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
20-Jan-04	18:30	46	55	44	48	45
20-Jan-04	18:45	46	55	43	47	44
20-Jan-04	19:00	46	63	43	47	44
20-Jan-04	19:15	46	57	43	47	44
20-Jan-04	19:30	45	54	43	46	44
20-Jan-04	19:45	45	57	43	46	44
20-Jan-04	20:00	45	51	42	46	44
20-Jan-04	20:15	46	56	42	47	44
20-Jan-04	20:30	46	59	42	47	44
20-Jan-04	20:45	46	57	42	47	43
20-Jan-04	21:00	45	54	42	46	43
20-Jan-04	21:15	45	69	42	47	43
20-Jan-04	21:30	45	61	41	46	43
20-Jan-04	21:45	43	52	40	45	42
20-Jan-04	22:00	43	50	40	44	42
20-Jan-04	22:15	44	62	40	45	42
20-Jan-04	22:30	43	59	40	44	41
20-Jan-04	22:45	43	70	40	43	41
20-Jan-04	23:00	42	55	40	44	41
20-Jan-04	23:15	44	68	40	43	41
20-Jan-04	23:30	42	50	39	44	41
20-Jan-04	23:45	42	48	38	43	40
21-Jan-04	00:00	40	55	37	41	39
21-Jan-04	00:15	40	51	36	41	38
21-Jan-04	00:30	40	47	37	41	38
21-Jan-04	00:45	40	48	37	41	38
21-Jan-04	01:00	40	56	37	41	38
21-Jan-04	01:15	39	48	36	40	37
21-Jan-04	01:30	39	53	36	40	37
21-Jan-04	01:45	39	46	36	40	37
21-Jan-04	02:00	38	47	35	40	37
21-Jan-04	02:15	40	66	35	40	36
21-Jan-04	02:30	38	52	35	39	36
21-Jan-04	02:45	39	57	36	41	37
21-Jan-04	03:00	39	54	35	40	37
21-Jan-04	03:15	38	46	36	40	37
21-Jan-04	03:30	39	54	35	40	37
21-Jan-04	03:45	39	56	36	41	37
21-Jan-04	04:00	40	48	36	42	37
21-Jan-04	04:15	40	59	35	43	37
21-Jan-04	04:30	40	48	36	42	37
21-Jan-04	04:45	41	53	36	43	38
21-Jan-04	05:00	42	55	38	44	39
21-Jan-04	05:15	44	60	38	45	41
21-Jan-04	05:30	45	69	39	45	41
21-Jan-04	05:45	44	59	39	46	42
21-Jan-04	06:00	44	53	40	46	42
21-Jan-04	06:15	45	54	41	47	43
21-Jan-04	06:30	46	58	42	48	44

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
21-Jan-04	06:45	48	64	42	49	45
21-Jan-04	07:00	49	61	45	50	46
21-Jan-04	07:15	48	58	45	49	46
21-Jan-04	07:30	48	61	45	49	46
21-Jan-04	07:45	48	58	45	49	46
21-Jan-04	08:00	50	64	45	50	47
21-Jan-04	08:15	53	70	45	56	47
21-Jan-04	08:30	56	79	46	52	48
21-Jan-04	08:45	49	65	46	50	47
21-Jan-04	09:00	60	81	46	57	48
21-Jan-04	09:15	63	83	47	59	49
21-Jan-04	09:30	64	81	47	67	50
21-Jan-04	09:45	62	81	46	57	48
21-Jan-04	10:00	55	73	45	54	48
21-Jan-04	10:15	51	65	48	53	49
21-Jan-04	10:30	51	70	46	53	48
21-Jan-04	10:45	50	60	45	52	48
21-Jan-04	11:00	51	68	47	52	48
21-Jan-04	11:15	51	64	47	53	49
21-Jan-04	11:30	53	73	46	51	47
21-Jan-04	11:45	56	77	46	53	47
21-Jan-04	12:00	53	69	45	53	48
21-Jan-04	12:15	53	70	46	54	49
21-Jan-04	12:30	53	71	47	54	49
21-Jan-04	12:45	58	76	46	59	48
21-Jan-04	13:00	54	79	45	54	47
21-Jan-04	13:15	50	67	44	51	47
21-Jan-04	13:30	52	70	44	52	47
21-Jan-04	13:45	51	68	45	53	47
21-Jan-04	14:00	50	63	45	52	48
21-Jan-04	14:15	50	58	46	51	47
21-Jan-04	14:30	53	74	46	53	47
21-Jan-04	14:45	56	79	45	56	47
21-Jan-04	15:00	53	71	46	53	48
21-Jan-04	15:15	51	63	46	53	48
21-Jan-04	15:30	60	80	45	56	49
21-Jan-04	15:45	62	82	46	55	49
21-Jan-04	16:00	52	71	46	53	48
21-Jan-04	16:15	52	66	47	54	48
21-Jan-04	16:30	51	68	46	53	48
21-Jan-04	16:45	52	65	46	53	48
21-Jan-04	17:00	52	70	46	53	48
21-Jan-04	17:15	50	64	45	52	47
21-Jan-04	17:30	49	71	44	50	46
21-Jan-04	17:45	49	61	45	51	47
21-Jan-04	18:00	48	53	45	50	47
21-Jan-04	18:15	49	62	44	50	47
21-Jan-04	18:30	49	63	44	50	46
21-Jan-04	18:45	50	61	45	53	47

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
21-Jan-04	19:00	50	63	45	51	47
21-Jan-04	19:15	49	64	45	50	47
21-Jan-04	19:30	49	56	44	50	47
21-Jan-04	19:45	48	60	45	50	46
21-Jan-04	20:00	51	66	44	54	46
21-Jan-04	20:15	47	61	43	49	45
21-Jan-04	20:30	49	65	43	50	46
21-Jan-04	20:45	47	54	42	49	45
21-Jan-04	21:00	53	74	43	52	45
21-Jan-04	21:15	48	62	42	50	45
21-Jan-04	21:30	49	65	43	50	45
21-Jan-04	21:45	47	54	42	48	45
21-Jan-04	22:00	46	54	42	48	44
21-Jan-04	22:15	50	62	44	53	46
21-Jan-04	22:30	46	52	42	48	43
21-Jan-04	22:45	48	62	42	51	44
21-Jan-04	23:00	46	55	41	48	43
21-Jan-04	23:15	45	51	40	47	42
21-Jan-04	23:30	46	52	42	47	44
21-Jan-04	23:45	45	58	40	47	42
22-Jan-04	00:00	43	54	39	46	41
22-Jan-04	00:15	46	57	40	49	42
22-Jan-04	00:30	47	61	41	49	44
22-Jan-04	00:45	49	61	42	52	44
22-Jan-04	01:00	45	57	39	48	41
22-Jan-04	01:15	43	54	38	45	40
22-Jan-04	01:30	42	52	37	45	39
22-Jan-04	01:45	40	47	36	42	38
22-Jan-04	02:00	41	50	37	44	38
22-Jan-04	02:15	40	50	36	42	38
22-Jan-04	02:30	42	52	37	45	39
22-Jan-04	02:45	41	49	37	44	39
22-Jan-04	03:00	41	49	37	43	38
22-Jan-04	03:15	41	51	37	44	38
22-Jan-04	03:30	42	52	37	45	39
22-Jan-04	03:45	41	52	37	44	38
22-Jan-04	04:00	41	54	37	44	38
22-Jan-04	04:15	43	56	37	47	38
22-Jan-04	04:30	42	53	37	45	39
22-Jan-04	04:45	43	58	38	45	40
22-Jan-04	05:00	44	53	38	46	41
22-Jan-04	05:15	46	55	38	49	42
22-Jan-04	05:30	48	58	42	50	45
22-Jan-04	05:45	47	58	43	48	44
22-Jan-04	06:00	47	54	43	49	44
22-Jan-04	06:15	48	58	44	50	46
22-Jan-04	06:30	50	64	45	52	47
22-Jan-04	06:45	51	64	45	53	47
22-Jan-04	07:00	51	74	45	51	48

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
22-Jan-04	07:15	51	75	47	52	48
22-Jan-04	07:30	51	68	46	54	47
22-Jan-04	07:45	53	67	47	56	48
22-Jan-04	08:00	53	66	48	56	50
22-Jan-04	08:15	61	81	49	57	51
22-Jan-04	08:30	55	66	50	57	53
22-Jan-04	08:45	54	64	50	56	52
22-Jan-04	09:00	54	67	50	56	52
22-Jan-04	09:15	61	81	50	61	52
22-Jan-04	09:30	53	64	48	55	50
22-Jan-04	09:45	52	68	46	53	48
22-Jan-04	10:00	53	68	46	55	48
22-Jan-04	10:15	51	62	46	52	48
22-Jan-04	10:30	54	78	47	54	49
22-Jan-04	10:45	66	90	49	68	51
22-Jan-04	11:00	59	76	47	60	49
22-Jan-04	11:15	74	98	49	72	51
22-Jan-04	11:30	57	77	49	57	50

Table A2 Phase 2 Continuous Noise Monitoring Results Location A

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APPENDIX B
LOCATION B - CONTINUOUS MONITORING DATA

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
31 Jul 03	10:40	65	67	57
31 Jul 03	11:40	67	67	58
31 Jul 03	12:40	64	67	58
31 Jul 03	13:40	64	67	58
31 Jul 03	14:40	64	67	58
31 Jul 03	15:40	64	66	58
31 Jul 03	16:40	63	65	57
31 Jul 03	17:40	63	66	58
31 Jul 03	18:40	62	65	56
31 Jul 03	19:40	61	64	53
31 Jul 03	20:40	60	64	49
31 Jul 03	21:40	58	62	46
31 Jul 03	22:40	58	62	45
31 Jul 03	23:40	56	59	41
01 Aug 03	00:40	51	54	38
01 Aug 03	01:40	47	49	37
01 Aug 03	02:40	51	52	37
01 Aug 03	03:40	52	54	37
01 Aug 03	04:40	56	61	38
01 Aug 03	05:40	60	64	44
01 Aug 03	06:40	64	67	55
01 Aug 03	07:40	65	68	60
01 Aug 03	08:40	67	69	60
01 Aug 03	09:40	66	70	59
01 Aug 03	10:40	66	68	59
01 Aug 03	11:40	65	68	59
01 Aug 03	12:40	65	68	60
01 Aug 03	13:40	65	67	57
01 Aug 03	14:40	64	67	58
01 Aug 03	15:40	64	66	58
01 Aug 03	16:40	63	65	58
01 Aug 03	17:40	62	65	56
01 Aug 03	18:40	61	64	53
01 Aug 03	19:40	60	64	50
01 Aug 03	20:40	59	63	49
01 Aug 03	21:40	57	61	45
01 Aug 03	22:40	56	60	45
01 Aug 03	23:40	54	59	45
02 Aug 03	00:40	53	57	44
02 Aug 03	01:40	51	55	39
02 Aug 03	02:40	51	53	37
02 Aug 03	03:40	51	54	37
02 Aug 03	04:40	54	59	38
02 Aug 03	05:40	57	61	41
02 Aug 03	06:40	59	63	44
02 Aug 03	07:40	61	64	50
02 Aug 03	08:40	61	64	51
02 Aug 03	09:40	61	64	51
02 Aug 03	10:40	61	64	51

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
02 Aug 03	11:40	61	64	52
02 Aug 03	12:40	60	63	52
02 Aug 03	13:40	64	63	50
02 Aug 03	14:40	59	63	50
02 Aug 03	15:40	59	62	49
02 Aug 03	16:40	60	63	50
02 Aug 03	17:40	60	63	51
02 Aug 03	18:40	60	63	50
02 Aug 03	19:40	59	63	49
02 Aug 03	20:40	61	62	45
02 Aug 03	21:40	57	61	44
02 Aug 03	22:40	56	60	42
02 Aug 03	23:40	54	59	40
03 Aug 03	00:40	54	58	39
03 Aug 03	01:40	52	57	38
03 Aug 03	02:40	51	56	37
03 Aug 03	03:40	50	52	38
03 Aug 03	04:40	53	57	40
03 Aug 03	05:40	54	59	42
03 Aug 03	06:40	56	61	43
03 Aug 03	07:40	58	61	43
03 Aug 03	08:40	59	61	41
03 Aug 03	09:40	58	62	44
03 Aug 03	10:40	58	62	46
03 Aug 03	11:40	59	62	50
03 Aug 03	12:40	59	62	50
03 Aug 03	13:40	60	63	51
03 Aug 03	14:40	58	61	49
03 Aug 03	15:40	58	61	48
03 Aug 03	16:40	59	62	52
03 Aug 03	17:40	62	63	52
03 Aug 03	18:40	61	63	49
03 Aug 03	19:40	59	63	48
03 Aug 03	20:40	59	62	46
03 Aug 03	21:40	57	61	44
03 Aug 03	22:40	56	60	43
03 Aug 03	23:40	54	58	41
04 Aug 03	00:40	51	55	40
04 Aug 03	01:40	50	53	40
04 Aug 03	02:40	51	53	40
04 Aug 03	03:40	49	51	39
04 Aug 03	04:40	53	57	41
04 Aug 03	05:40	56	60	42
04 Aug 03	06:40	57	61	44
04 Aug 03	07:40	59	62	50
04 Aug 03	08:40	58	62	50
04 Aug 03	09:40	58	62	51
04 Aug 03	10:40	60	63	53
04 Aug 03	11:40	59	63	53
04 Aug 03	12:40	60	63	53
04 Aug 03	13:40	60	62	52
04 Aug 03	14:40	59	62	50

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
04 Aug 03	15:40	59	62	49
04 Aug 03	16:40	59	63	50
04 Aug 03	17:40	62	64	54
04 Aug 03	18:40	60	63	50
04 Aug 03	19:40	59	63	48
04 Aug 03	20:40	59	63	47
04 Aug 03	21:40	58	62	46
04 Aug 03	22:40	57	61	43
04 Aug 03	23:40	53	58	41
05 Aug 03	00:40	52	56	41
05 Aug 03	01:40	56	48	42
05 Aug 03	02:40	49	45	38
05 Aug 03	03:40	51	49	40
05 Aug 03	04:40	56	60	40
05 Aug 03	05:40	61	65	49
05 Aug 03	06:40	65	68	56
05 Aug 03	07:40	66	69	61
05 Aug 03	08:40	66	69	60
05 Aug 03	09:40	66	69	58
05 Aug 03	10:40	65	68	58
05 Aug 03	11:40	67	70	59
05 Aug 03	12:40	65	68	58
05 Aug 03	13:40	65	68	59
05 Aug 03	14:40	66	68	60
05 Aug 03	15:40	66	68	61
05 Aug 03	16:40	64	67	59
05 Aug 03	17:40	63	66	57
05 Aug 03	18:40	62	65	56
05 Aug 03	19:40	61	64	54
05 Aug 03	20:40	60	63	52
05 Aug 03	21:40	59	62	50
05 Aug 03	22:40	57	61	46
05 Aug 03	23:40	54	59	43
06 Aug 03	00:40	52	56	41
06 Aug 03	01:40	49	50	41
06 Aug 03	02:40	52	51	44
06 Aug 03	03:40	51	51	43
06 Aug 03	04:40	57	61	44
06 Aug 03	05:40	61	64	47
06 Aug 03	06:40	65	68	57
06 Aug 03	07:40	67	69	61
06 Aug 03	08:40	66	68	60

Table B1 Phase 1 Continuous Noise Monitoring Results Location B

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
14 Jan 04	15:15	66	78	56	69	61
14 Jan 04	15:30	66	76	57	69	61
14 Jan 04	15:45	66	77	58	68	62
14 Jan 04	16:00	67	82	58	69	62
14 Jan 04	16:15	66	77	58	68	62
14 Jan 04	16:30	65	82	56	67	60
14 Jan 04	16:45	66	82	56	68	59
14 Jan 04	17:00	65	79	56	68	59
14 Jan 04	17:15	65	77	54	67	59
14 Jan 04	17:30	65	74	55	67	60
14 Jan 04	17:45	65	81	54	68	60
14 Jan 04	18:00	64	74	55	67	59
14 Jan 04	18:15	65	74	53	67	60
14 Jan 04	18:30	65	75	53	68	60
14 Jan 04	18:45	64	80	53	67	59
14 Jan 04	19:00	65	77	52	67	59
14 Jan 04	19:15	64	74	52	67	58
14 Jan 04	19:30	63	72	50	66	55
14 Jan 04	19:45	63	86	52	66	56
14 Jan 04	20:00	62	70	50	65	54
14 Jan 04	20:15	62	72	49	65	53
14 Jan 04	20:30	62	72	49	65	53
14 Jan 04	20:45	62	74	50	65	54
14 Jan 04	21:00	61	70	50	65	54
14 Jan 04	21:15	61	77	49	65	54
14 Jan 04	21:30	61	72	48	65	51
14 Jan 04	21:45	60	71	47	64	52
14 Jan 04	22:00	60	72	47	64	51
14 Jan 04	22:15	60	70	47	64	51
14 Jan 04	22:30	59	70	44	63	48
14 Jan 04	22:45	59	73	44	63	48
14 Jan 04	23:00	58	80	46	62	49
14 Jan 04	23:15	59	74	44	63	48
14 Jan 04	23:30	58	69	45	62	48
14 Jan 04	23:45	57	69	44	61	47
15 Jan 04	00:00	55	69	44	60	46
15 Jan 04	00:15	55	71	43	59	45
15 Jan 04	00:30	54	71	43	58	45
15 Jan 04	00:45	54	73	43	57	45
15 Jan 04	01:00	51	65	42	54	44
15 Jan 04	01:15	52	73	42	54	44
15 Jan 04	01:30	52	68	43	53	45
15 Jan 04	01:45	50	70	43	51	45
15 Jan 04	02:00	51	66	44	53	46
15 Jan 04	02:15	48	63	42	49	44
15 Jan 04	02:30	50	68	42	53	44
15 Jan 04	02:45	49	65	41	50	43
15 Jan 04	03:00	47	63	39	47	41

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
15 Jan 04	03:15	47	67	40	46	42
15 Jan 04	03:30	48	67	39	48	41
15 Jan 04	03:45	59	85	40	55	41
15 Jan 04	04:00	52	72	40	53	42
15 Jan 04	04:15	52	72	42	53	45
15 Jan 04	04:30	52	72	41	52	45
15 Jan 04	04:45	51	66	42	55	44
15 Jan 04	05:00	55	68	43	59	45
15 Jan 04	05:15	58	76	43	63	47
15 Jan 04	05:30	59	78	42	62	46
15 Jan 04	05:45	59	75	42	63	45
15 Jan 04	06:00	60	74	43	64	46
15 Jan 04	06:15	61	77	44	64	49
15 Jan 04	06:30	63	75	44	66	52
15 Jan 04	06:45	64	78	46	67	55
15 Jan 04	07:00	65	78	52	68	58
15 Jan 04	07:15	69	91	50	70	60
15 Jan 04	07:30	66	78	54	69	61
15 Jan 04	07:45	66	76	56	68	62
15 Jan 04	08:00	66	77	56	68	62
15 Jan 04	08:15	66	76	57	69	62
15 Jan 04	08:30	64	78	55	67	60
15 Jan 04	08:45	66	78	54	68	61
15 Jan 04	09:00	66	78	56	69	61
15 Jan 04	09:15	66	79	56	68	61
15 Jan 04	09:30	66	83	55	69	61
15 Jan 04	09:45	66	78	57	69	62
15 Jan 04	10:00	67	79	54	69	62
15 Jan 04	10:15	67	79	56	70	63
15 Jan 04	10:30	68	77	60	70	64
15 Jan 04	10:45	67	80	58	69	62
15 Jan 04	11:00	68	85	58	70	62
15 Jan 04	11:15	67	78	54	69	62
15 Jan 04	11:30	66	76	56	69	60
15 Jan 04	11:45	67	76	57	69	62
15 Jan 04	12:00	66	79	56	69	61
15 Jan 04	12:15	66	76	55	68	61
15 Jan 04	12:30	66	77	55	69	61
15 Jan 04	12:45	65	79	56	68	61
15 Jan 04	13:00	67	90	54	69	59
15 Jan 04	13:15	65	78	53	68	59
15 Jan 04	13:30	66	78	53	68	60
15 Jan 04	13:45	65	76	54	68	60
15 Jan 04	14:00	66	83	54	68	60
15 Jan 04	14:15	65	80	54	68	59
15 Jan 04	14:30	65	75	54	68	59
15 Jan 04	14:45	66	78	54	68	61
15 Jan 04	15:00	66	77	52	68	59
15 Jan 04	15:15	66	78	53	69	60

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
15 Jan 04	15:30	65	76	53	68	61
15 Jan 04	15:45	65	83	54	68	60
15 Jan 04	16:00	68	90	54	69	60
15 Jan 04	16:15	66	77	56	68	62
15 Jan 04	16:30	65	74	57	68	61
15 Jan 04	16:45	66	81	58	68	62
15 Jan 04	17:00	65	74	55	67	61
15 Jan 04	17:15	65	74	51	67	59
15 Jan 04	17:30	65	76	56	67	60
15 Jan 04	17:45	65	75	55	67	61
15 Jan 04	18:00	65	74	54	67	60
15 Jan 04	18:15	65	76	55	68	60
15 Jan 04	18:30	65	80	53	68	58
15 Jan 04	18:45	64	73	53	66	58
15 Jan 04	19:00	64	70	53	67	59
15 Jan 04	19:15	64	81	51	67	57
15 Jan 04	19:30	63	73	51	66	57
15 Jan 04	19:45	63	76	50	66	55
15 Jan 04	20:00	62	73	50	65	55
15 Jan 04	20:15	62	75	48	65	54
15 Jan 04	20:30	62	80	49	65	56
15 Jan 04	20:45	62	76	51	66	55
15 Jan 04	21:00	62	78	50	65	54
15 Jan 04	21:15	62	79	48	65	55
15 Jan 04	21:30	62	74	53	65	57
15 Jan 04	21:45	62	72	51	66	55
15 Jan 04	22:00	63	81	53	66	57
15 Jan 04	22:15	62	78	51	65	56
15 Jan 04	22:30	64	81	53	67	58
15 Jan 04	22:45	60	76	51	64	54
15 Jan 04	23:00	60	78	49	64	53
15 Jan 04	23:15	60	75	49	64	52
15 Jan 04	23:30	60	75	48	63	52
15 Jan 04	23:45	59	73	46	63	51
16 Jan 04	00:00	65	99	50	63	53
16 Jan 04	00:15	61	80	52	64	54
16 Jan 04	00:30	59	72	51	62	54
16 Jan 04	00:45	59	76	51	63	54
16 Jan 04	01:00	58	73	51	62	53
16 Jan 04	01:15	57	72	50	60	53
16 Jan 04	01:30	57	71	49	59	52
16 Jan 04	01:45	57	70	49	60	53
16 Jan 04	02:00	55	67	48	57	51
16 Jan 04	02:15	54	67	48	57	50
16 Jan 04	02:30	52	66	45	54	48
16 Jan 04	02:45	56	73	47	59	50
16 Jan 04	03:00	54	70	46	57	48
16 Jan 04	03:15	52	67	46	55	49
16 Jan 04	03:30	51	64	46	52	48

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
16 Jan 04	03:45	52	64	46	54	49
16 Jan 04	04:00	54	71	45	57	48
16 Jan 04	04:15	56	75	45	57	47
16 Jan 04	04:30	54	67	46	58	48
16 Jan 04	04:45	56	70	46	60	49
16 Jan 04	05:00	55	71	46	59	47
16 Jan 04	05:15	58	74	46	62	48
16 Jan 04	05:30	60	74	46	64	50
16 Jan 04	05:45	61	74	48	65	51
16 Jan 04	06:00	61	86	48	64	51
16 Jan 04	06:15	64	79	50	68	53
16 Jan 04	06:30	65	79	52	68	56
16 Jan 04	06:45	66	83	54	69	59
16 Jan 04	07:00	67	80	55	69	61
16 Jan 04	07:15	68	82	61	70	64
16 Jan 04	07:30	68	87	60	70	64
16 Jan 04	07:45	68	84	60	70	64
16 Jan 04	08:00	68	81	60	71	64
16 Jan 04	08:15	68	78	59	70	64
16 Jan 04	08:30	67	77	60	69	63
16 Jan 04	08:45	68	83	59	71	63
16 Jan 04	09:00	67	80	57	69	62
16 Jan 04	09:15	67	79	59	70	63
16 Jan 04	09:30	66	76	59	69	63
16 Jan 04	09:45	67	84	57	69	63
16 Jan 04	10:00	67	82	58	69	62
16 Jan 04	10:15	67	78	58	70	63
16 Jan 04	10:30	67	79	56	70	61
16 Jan 04	10:45	69	89	57	71	62
16 Jan 04	11:00	66	82	56	68	61
16 Jan 04	11:15	67	83	52	70	60
16 Jan 04	11:30	67	80	55	70	61
16 Jan 04	11:45	67	80	55	69	62
16 Jan 04	12:00	67	85	56	70	61
16 Jan 04	12:15	67	81	56	69	61
16 Jan 04	12:30	68	80	59	71	63
16 Jan 04	12:45	66	77	57	69	62
16 Jan 04	13:00	67	87	55	70	62
16 Jan 04	13:15	67	80	56	69	63
16 Jan 04	13:30	68	89	56	70	63
16 Jan 04	13:45	68	84	56	70	63
16 Jan 04	14:00	67	79	58	70	63
16 Jan 04	14:15	68	85	58	71	63
16 Jan 04	14:30	68	81	58	70	63
16 Jan 04	14:45	68	83	56	70	62
16 Jan 04	15:00	67	82	59	70	63
16 Jan 04	15:15	69	86	61	71	64
16 Jan 04	15:30	67	75	61	69	63
16 Jan 04	15:45	67	80	59	69	63

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
16 Jan 04	16:00	66	81	58	68	63
16 Jan 04	16:15	67	78	60	69	64
16 Jan 04	16:30	67	78	60	69	64
16 Jan 04	16:45	66	79	58	69	62
16 Jan 04	17:00	66	80	58	68	62
16 Jan 04	17:15	65	77	58	67	62
16 Jan 04	17:30	65	75	58	67	61
16 Jan 04	17:45	66	82	58	67	63
16 Jan 04	18:00	65	76	58	67	62
16 Jan 04	18:15	66	83	58	68	62
16 Jan 04	18:30	65	75	57	67	61
16 Jan 04	18:45	64	76	57	66	60
16 Jan 04	19:00	64	74	57	66	61
16 Jan 04	19:15	64	73	56	67	60
16 Jan 04	19:30	63	74	54	66	58
16 Jan 04	19:45	63	75	53	66	58
16 Jan 04	20:00	62	72	53	65	58
16 Jan 04	20:15	62	73	53	65	57
16 Jan 04	20:30	61	70	50	65	55
16 Jan 04	20:45	62	77	52	65	56
16 Jan 04	21:00	62	74	51	65	56
16 Jan 04	21:15	60	71	49	64	54
16 Jan 04	21:30	60	70	50	64	55
16 Jan 04	21:45	61	72	49	64	52
16 Jan 04	22:00	60	73	49	63	52
16 Jan 04	22:15	60	75	48	63	51
16 Jan 04	22:30	59	79	47	62	50
16 Jan 04	22:45	59	69	46	62	51
16 Jan 04	23:00	58	72	46	61	48
16 Jan 04	23:15	58	73	46	62	49
16 Jan 04	23:30	57	72	45	61	48
16 Jan 04	23:45	57	69	45	61	48
17 Jan 04	00:00	59	72	46	63	49
17 Jan 04	00:15	59	74	47	63	49
17 Jan 04	00:30	57	67	46	61	47
17 Jan 04	00:45	57	72	45	60	47
17 Jan 04	01:00	56	70	45	60	47
17 Jan 04	01:15	56	69	46	60	48
17 Jan 04	01:30	56	68	45	60	47
17 Jan 04	01:45	55	67	45	59	47
17 Jan 04	02:00	53	77	44	57	46
17 Jan 04	02:15	53	70	44	57	45
17 Jan 04	02:30	51	68	44	53	45
17 Jan 04	02:45	53	65	44	57	46
17 Jan 04	03:00	54	73	44	58	46
17 Jan 04	03:15	54	68	44	58	46
17 Jan 04	03:30	53	67	43	57	46
17 Jan 04	03:45	52	66	44	55	46
17 Jan 04	04:00	56	68	45	59	48

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
17 Jan 04	04:15	57	66	53	59	55
17 Jan 04	04:30	57	66	51	58	55
17 Jan 04	04:45	55	82	49	58	51
17 Jan 04	05:00	55	66	49	58	51
17 Jan 04	05:15	57	71	50	60	51
17 Jan 04	05:30	55	70	49	59	51
17 Jan 04	05:45	57	73	49	60	51
17 Jan 04	06:00	58	77	49	62	51
17 Jan 04	06:15	57	75	49	61	51
17 Jan 04	06:30	60	74	50	63	52
17 Jan 04	06:45	60	82	50	63	52
17 Jan 04	07:00	59	79	51	63	53
17 Jan 04	07:15	61	74	52	64	55
17 Jan 04	07:30	62	78	53	64	55
17 Jan 04	07:45	63	79	54	66	57
17 Jan 04	08:00	65	86	56	68	59
17 Jan 04	08:15	63	75	55	66	57
17 Jan 04	08:30	65	78	54	68	58
17 Jan 04	08:45	65	75	57	68	60
17 Jan 04	09:00	65	77	58	67	61
17 Jan 04	09:15	65	78	59	68	61
17 Jan 04	09:30	65	78	57	68	61
17 Jan 04	09:45	66	79	56	68	61
17 Jan 04	10:00	66	82	57	68	61
17 Jan 04	10:15	66	79	57	68	61
17 Jan 04	10:30	66	78	58	69	62
17 Jan 04	10:45	66	78	58	69	61
17 Jan 04	11:00	66	80	57	69	62
17 Jan 04	11:15	67	77	58	69	62
17 Jan 04	11:30	67	79	59	69	63
17 Jan 04	11:45	67	79	58	69	62
17 Jan 04	12:00	67	80	59	69	63
17 Jan 04	12:15	67	84	58	69	63
17 Jan 04	12:30	66	75	59	68	63
17 Jan 04	12:45	67	78	54	69	61
17 Jan 04	13:00	66	81	57	69	61
17 Jan 04	13:15	66	79	57	69	61
17 Jan 04	13:30	66	77	57	68	62
17 Jan 04	13:45	66	76	58	68	62
17 Jan 04	14:00	66	76	58	68	63
17 Jan 04	14:15	66	83	58	68	63
17 Jan 04	14:30	66	78	57	69	62
17 Jan 04	14:45	65	76	57	68	61
17 Jan 04	15:00	65	75	57	67	61
17 Jan 04	15:15	65	77	56	68	60
17 Jan 04	15:30	65	74	57	68	61
17 Jan 04	15:45	65	74	57	67	61
17 Jan 04	16:00	65	77	57	68	61
17 Jan 04	16:15	65	75	55	68	61

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
17 Jan 04	16:30	65	73	55	67	59
17 Jan 04	16:45	65	76	56	67	60
17 Jan 04	17:00	65	76	57	67	60
17 Jan 04	17:15	65	74	55	67	60
17 Jan 04	17:30	64	82	57	66	59
17 Jan 04	17:45	64	76	56	67	60
17 Jan 04	18:00	64	74	56	66	59
17 Jan 04	18:15	64	72	56	66	60
17 Jan 04	18:30	63	71	56	66	59
17 Jan 04	18:45	64	71	57	66	60
17 Jan 04	19:00	64	79	58	67	61
17 Jan 04	19:15	65	72	60	67	62
17 Jan 04	19:30	64	75	58	66	61
17 Jan 04	19:45	63	73	55	66	58
17 Jan 04	20:00	63	71	55	66	58
17 Jan 04	20:15	63	76	53	65	57
17 Jan 04	20:30	61	70	54	65	56
17 Jan 04	20:45	61	73	54	64	57
17 Jan 04	21:00	61	71	52	64	55
17 Jan 04	21:15	60	70	51	63	54
17 Jan 04	21:30	58	67	49	62	52
17 Jan 04	21:45	59	74	50	62	53
17 Jan 04	22:00	59	68	49	62	52
17 Jan 04	22:15	58	68	48	61	54
17 Jan 04	22:30	58	66	49	61	53
17 Jan 04	22:45	57	68	47	61	53
17 Jan 04	23:00	58	69	49	61	51
17 Jan 04	23:15	57	67	47	61	51
17 Jan 04	23:30	57	68	48	60	50
17 Jan 04	23:45	56	66	47	60	50
18 Jan 04	00:00	56	64	46	59	49
18 Jan 04	00:15	57	65	47	60	50
18 Jan 04	00:30	56	65	45	60	49
18 Jan 04	00:45	56	68	45	60	48
18 Jan 04	01:00	56	66	45	60	48
18 Jan 04	01:15	54	64	45	58	49
18 Jan 04	01:30	54	65	44	58	48
18 Jan 04	01:45	55	65	44	59	48
18 Jan 04	02:00	54	68	44	57	48
18 Jan 04	02:15	55	72	43	57	48
18 Jan 04	02:30	55	66	44	58	48
18 Jan 04	02:45	54	65	43	57	46
18 Jan 04	03:00	54	63	44	57	49
18 Jan 04	03:15	52	61	44	56	46
18 Jan 04	03:30	51	64	43	54	46
18 Jan 04	03:45	49	60	43	52	45
18 Jan 04	04:00	52	66	43	55	46
18 Jan 04	04:15	50	73	42	54	45
18 Jan 04	04:30	53	67	44	56	46

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
18 Jan 04	04:45	54	69	45	57	47
18 Jan 04	05:00	52	66	45	56	47
18 Jan 04	05:15	54	68	45	57	47
18 Jan 04	05:30	56	69	47	59	49
18 Jan 04	05:45	54	66	48	58	49
18 Jan 04	06:00	55	70	47	58	49
18 Jan 04	06:15	53	66	46	57	48
18 Jan 04	06:30	53	69	45	57	47
18 Jan 04	06:45	55	66	47	59	49
18 Jan 04	07:00	56	70	47	60	49
18 Jan 04	07:15	57	70	47	60	49
18 Jan 04	07:30	57	70	49	60	53
18 Jan 04	07:45	58	68	49	61	52
18 Jan 04	08:00	57	67	47	61	50
18 Jan 04	08:15	59	79	46	62	49
18 Jan 04	08:30	58	74	45	62	49
18 Jan 04	08:45	59	77	45	62	49
18 Jan 04	09:00	59	70	46	63	49
18 Jan 04	09:15	62	81	46	64	51
18 Jan 04	09:30	60	71	48	63	52
18 Jan 04	09:45	61	69	46	64	54
18 Jan 04	10:00	61	72	46	64	52
18 Jan 04	10:15	62	75	50	65	54
18 Jan 04	10:30	61	77	48	64	54
18 Jan 04	10:45	62	73	49	65	55
18 Jan 04	11:00	61	69	48	64	54
18 Jan 04	11:15	61	74	48	64	55
18 Jan 04	11:30	65	85	50	65	54
18 Jan 04	11:45	61	74	49	64	56
18 Jan 04	12:00	61	73	48	64	55
18 Jan 04	12:15	62	70	49	65	55
18 Jan 04	12:30	62	69	48	64	56
18 Jan 04	12:45	63	75	53	65	58
18 Jan 04	13:00	62	69	51	65	57
18 Jan 04	13:15	62	71	48	65	56
18 Jan 04	13:30	63	78	51	65	59
18 Jan 04	13:45	62	70	50	65	57
18 Jan 04	14:00	63	80	52	65	57
18 Jan 04	14:15	63	75	51	65	57
18 Jan 04	14:30	62	72	49	65	57
18 Jan 04	14:45	63	72	53	65	58
18 Jan 04	15:00	63	73	55	65	59
18 Jan 04	15:15	62	77	49	65	57
18 Jan 04	15:30	62	75	53	65	58
18 Jan 04	15:45	62	71	54	65	58
18 Jan 04	16:00	62	69	53	65	58
18 Jan 04	16:15	63	79	51	65	57
18 Jan 04	16:30	63	84	51	65	57
18 Jan 04	16:45	61	71	51	64	56

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
18 Jan 04	17:00	63	77	51	65	58
18 Jan 04	17:15	62	69	50	64	57
18 Jan 04	17:30	61	71	51	64	56
18 Jan 04	17:45	61	70	51	64	56
18 Jan 04	18:00	61	69	51	64	56
18 Jan 04	18:15	62	80	54	65	57
18 Jan 04	18:30	61	71	49	64	55
18 Jan 04	18:45	62	73	50	64	55
18 Jan 04	19:00	62	78	49	65	55
18 Jan 04	19:15	61	69	50	64	55
18 Jan 04	19:30	61	69	51	64	55
18 Jan 04	19:45	62	72	53	64	56
18 Jan 04	20:00	61	75	48	64	55
18 Jan 04	20:15	61	73	51	64	54
18 Jan 04	20:30	62	70	52	65	56
18 Jan 04	20:45	61	72	51	64	55
18 Jan 04	21:00	60	70	50	64	54
18 Jan 04	21:15	60	68	50	63	54
18 Jan 04	21:30	59	68	50	63	54
18 Jan 04	21:45	59	70	49	63	53
18 Jan 04	22:00	59	69	47	62	50
18 Jan 04	22:15	58	70	46	62	50
18 Jan 04	22:30	58	67	47	62	51
18 Jan 04	22:45	57	74	46	61	49
18 Jan 04	23:00	57	71	47	61	50
18 Jan 04	23:15	58	71	48	61	51
18 Jan 04	23:30	58	69	49	61	52
18 Jan 04	23:45	57	68	48	60	50
19 Jan 04	00:00	56	74	48	60	51
19 Jan 04	00:15	57	71	46	60	51
19 Jan 04	00:30	55	70	47	58	50
19 Jan 04	00:45	54	66	47	57	49
19 Jan 04	01:00	55	68	47	59	50
19 Jan 04	01:15	54	67	46	57	49
19 Jan 04	01:30	54	70	46	57	49
19 Jan 04	01:45	54	71	46	57	48
19 Jan 04	02:00	51	66	44	54	46
19 Jan 04	02:15	53	68	44	56	46
19 Jan 04	02:30	50	65	44	53	46
19 Jan 04	02:45	49	65	44	51	46
19 Jan 04	03:00	52	66	45	55	47
19 Jan 04	03:15	52	67	45	54	48
19 Jan 04	03:30	52	68	46	55	48
19 Jan 04	03:45	53	65	46	56	49
19 Jan 04	04:00	52	66	45	54	48
19 Jan 04	04:15	56	75	47	58	49
19 Jan 04	04:30	56	71	46	58	49
19 Jan 04	04:45	56	72	48	59	50
19 Jan 04	05:00	59	77	48	61	51

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
19 Jan 04	05:15	59	77	50	63	53
19 Jan 04	05:30	60	73	50	63	53
19 Jan 04	05:45	60	77	51	64	53
19 Jan 04	06:00	60	76	50	63	52
19 Jan 04	06:15	62	76	50	65	53
19 Jan 04	06:30	63	74	52	65	55
19 Jan 04	06:45	65	81	53	67	58
19 Jan 04	07:00	66	81	54	70	60
19 Jan 04	07:15	67	81	60	70	63
19 Jan 04	07:30	68	87	58	70	63
19 Jan 04	07:45	66	75	58	69	61
19 Jan 04	08:00	66	80	60	69	63
19 Jan 04	08:15	67	83	59	70	63
19 Jan 04	08:30	67	76	61	69	64
19 Jan 04	08:45	66	80	57	68	63
19 Jan 04	09:00	66	77	59	69	63
19 Jan 04	09:15	66	83	58	68	62
19 Jan 04	09:30	66	78	58	68	63
19 Jan 04	09:45	67	84	59	69	63
19 Jan 04	10:00	66	78	58	69	62
19 Jan 04	10:15	67	79	56	70	62
19 Jan 04	10:30	67	79	58	70	62
19 Jan 04	10:45	67	90	58	70	62
19 Jan 04	11:00	67	78	57	70	62
19 Jan 04	11:15	67	81	56	70	62
19 Jan 04	11:30	65	79	56	68	60
19 Jan 04	11:45	67	81	57	70	62
19 Jan 04	12:00	68	86	56	70	61
19 Jan 04	12:15	66	81	56	69	61
19 Jan 04	12:30	67	84	58	70	62
19 Jan 04	12:45	66	81	58	69	62
19 Jan 04	13:00	67	82	58	70	63
19 Jan 04	13:15	67	77	59	70	63
19 Jan 04	13:30	67	83	56	69	62
19 Jan 04	13:45	67	78	56	70	62
19 Jan 04	14:00	67	79	59	70	62
19 Jan 04	14:15	67	82	58	70	62
19 Jan 04	14:30	67	82	56	70	62
19 Jan 04	14:45	68	85	57	70	62
19 Jan 04	15:00	66	82	58	69	62
19 Jan 04	15:15	67	82	57	69	62
19 Jan 04	15:30	67	80	58	70	62
19 Jan 04	15:45	66	79	57	69	62
19 Jan 04	16:00	67	78	59	69	63
19 Jan 04	16:15	67	84	57	70	61
19 Jan 04	16:30	65	81	54	67	61
19 Jan 04	16:45	66	79	58	68	62
19 Jan 04	17:00	66	78	59	69	62
19 Jan 04	17:15	66	76	57	68	61

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
19 Jan 04	17:30	66	82	59	68	62
19 Jan 04	17:45	65	78	58	67	61
19 Jan 04	18:00	65	79	56	67	61
19 Jan 04	18:15	65	75	57	67	60
19 Jan 04	18:30	64	77	55	67	60
19 Jan 04	18:45	64	85	53	66	59
19 Jan 04	19:00	64	73	54	66	60
19 Jan 04	19:15	63	73	54	65	57
19 Jan 04	19:30	62	75	51	65	55
19 Jan 04	19:45	63	83	52	65	56
19 Jan 04	20:00	61	76	51	65	55
19 Jan 04	20:15	61	73	52	65	56
19 Jan 04	20:30	61	75	50	64	53
19 Jan 04	20:45	61	76	50	64	54
19 Jan 04	21:00	61	77	50	64	53
19 Jan 04	21:15	60	79	50	63	54
19 Jan 04	21:30	60	71	49	63	52
19 Jan 04	21:45	59	71	47	62	51
19 Jan 04	22:00	60	76	47	63	51
19 Jan 04	22:15	58	68	47	62	50
19 Jan 04	22:30	59	75	47	62	51
19 Jan 04	22:45	57	68	45	61	49
19 Jan 04	23:00	55	68	45	59	48
19 Jan 04	23:15	58	78	47	61	51
19 Jan 04	23:30	55	72	46	59	49
19 Jan 04	23:45	55	69	45	59	48
20 Jan 04	00:00	54	69	44	58	47
20 Jan 04	00:15	55	72	44	58	47
20 Jan 04	00:30	53	68	43	56	46
20 Jan 04	00:45	51	64	42	54	45
20 Jan 04	01:00	51	66	42	54	45
20 Jan 04	01:15	54	71	43	57	46
20 Jan 04	01:30	54	72	44	57	47
20 Jan 04	01:45	53	68	44	55	48
20 Jan 04	02:00	53	66	44	56	48
20 Jan 04	02:15	54	74	43	56	47
20 Jan 04	02:30	48	62	43	50	45
20 Jan 04	02:45	48	62	43	49	46
20 Jan 04	03:00	50	69	43	49	45
20 Jan 04	03:15	49	67	43	50	46
20 Jan 04	03:30	52	68	44	54	46
20 Jan 04	03:45	53	66	44	56	48
20 Jan 04	04:00	52	64	43	55	48
20 Jan 04	04:15	54	70	45	56	48
20 Jan 04	04:30	53	72	44	56	47
20 Jan 04	04:45	55	67	45	58	49
20 Jan 04	05:00	56	69	49	60	51
20 Jan 04	05:15	59	77	48	63	51
20 Jan 04	05:30	59	74	49	63	52

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
20 Jan 04	05:45	61	75	50	64	53
20 Jan 04	06:00	62	76	50	66	53
20 Jan 04	06:15	63	82	50	67	54
20 Jan 04	06:30	64	80	52	67	56
20 Jan 04	06:45	65	77	54	68	58
20 Jan 04	07:00	66	78	53	70	60
20 Jan 04	07:15	67	82	57	70	62
20 Jan 04	07:30	67	81	58	70	63
20 Jan 04	07:45	67	78	59	70	63
20 Jan 04	08:00	67	81	58	70	62
20 Jan 04	08:15	66	77	57	69	62
20 Jan 04	08:30	66	78	55	68	62
20 Jan 04	08:45	66	79	58	68	63
20 Jan 04	09:00	66	78	57	69	62
20 Jan 04	09:15	66	78	56	69	62
20 Jan 04	09:30	67	92	59	69	62
20 Jan 04	09:45	66	86	53	68	61
20 Jan 04	10:00	65	80	54	68	60
20 Jan 04	10:15	66	86	56	69	62
20 Jan 04	10:30	67	85	56	69	61
20 Jan 04	10:45	67	82	57	70	62
20 Jan 04	11:00	67	88	58	70	62
20 Jan 04	11:15	69	98	56	70	61
20 Jan 04	11:30	68	80	54	70	61
20 Jan 04	11:45	69	72	67	71	67
20 Jan 04	11:50	67	69	61	85	56
20 Jan 04	12:05	67	69	62	81	56
20 Jan 04	12:20	67	70	62	78	57
20 Jan 04	12:35	67	69	62	80	57
20 Jan 04	12:50	67	69	62	82	55
20 Jan 04	13:05	66	68	60	89	54
20 Jan 04	13:20	67	69	60	81	54
20 Jan 04	13:35	66	69	60	77	56
20 Jan 04	13:50	64	67	60	75	55
20 Jan 04	14:05	66	69	62	80	58
20 Jan 04	14:20	65	68	60	77	55
20 Jan 04	14:35	64	67	60	76	54
20 Jan 04	14:50	65	68	60	81	56
20 Jan 04	15:05	66	68	61	80	55
20 Jan 04	15:20	66	68	61	76	55
20 Jan 04	15:35	65	68	61	76	56
20 Jan 04	15:50	65	67	61	80	56
20 Jan 04	16:05	65	68	61	78	53
20 Jan 04	16:20	64	67	59	78	53
20 Jan 04	16:35	64	67	59	75	56
20 Jan 04	16:50	64	67	59	76	53
20 Jan 04	17:05	65	67	61	76	57
20 Jan 04	17:20	64	66	59	77	54
20 Jan 04	17:35	64	67	61	79	56

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
20 Jan 04	17:50	64	66	59	74	53
20 Jan 04	18:05	64	66	59	74	54
20 Jan 04	18:20	64	67	59	80	55
20 Jan 04	18:35	64	66	59	74	52
20 Jan 04	18:50	63	65	57	72	51
20 Jan 04	19:05	63	66	56	73	52
20 Jan 04	19:20	62	65	57	72	53
20 Jan 04	19:35	62	65	55	72	51
20 Jan 04	19:50	61	65	55	75	50
20 Jan 04	20:05	61	64	55	70	52
20 Jan 04	20:20	60	63	54	82	51
20 Jan 04	20:35	60	63	54	74	51
20 Jan 04	20:50	60	64	52	69	49
20 Jan 04	21:05	61	64	54	76	51
20 Jan 04	21:20	59	63	51	70	48
20 Jan 04	21:35	60	63	52	72	49
20 Jan 04	21:50	59	63	51	67	47
20 Jan 04	22:05	58	62	50	69	46
20 Jan 04	22:20	59	63	51	74	47
20 Jan 04	22:35	58	62	51	68	48
20 Jan 04	22:50	56	60	49	69	45
20 Jan 04	23:05	57	60	49	74	46
20 Jan 04	23:20	57	61	49	76	46
20 Jan 04	23:35	56	60	50	68	46
20 Jan 04	23:50	56	58	46	80	42
21 Jan 04	00:05	54	57	46	69	42
21 Jan 04	00:20	53	57	44	68	41
21 Jan 04	00:35	53	57	43	73	41
21 Jan 04	00:50	54	57	46	72	43
21 Jan 04	01:05	53	56	46	68	42
21 Jan 04	01:20	51	55	42	66	40
21 Jan 04	01:35	51	52	43	70	41
21 Jan 04	01:50	51	54	43	69	40
21 Jan 04	02:05	54	55	44	73	40
21 Jan 04	02:20	51	51	44	74	40
21 Jan 04	02:35	51	52	45	69	41
21 Jan 04	02:50	50	51	44	67	41
21 Jan 04	03:05	48	50	43	66	40
21 Jan 04	03:20	52	53	45	70	42
21 Jan 04	03:35	49	50	44	66	40
21 Jan 04	03:50	51	52	44	68	40
21 Jan 04	04:05	51	54	43	69	39
21 Jan 04	04:20	51	53	43	70	40
21 Jan 04	04:35	49	51	44	65	40
21 Jan 04	04:50	53	58	45	66	41
21 Jan 04	05:05	56	59	46	77	42
21 Jan 04	05:20	60	63	49	74	44
21 Jan 04	05:35	58	62	49	77	44
21 Jan 04	05:50	58	62	48	75	45

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
21 Jan 04	06:05	59	62	48	80	45
21 Jan 04	06:20	62	66	50	77	46
21 Jan 04	06:35	63	66	52	77	46
21 Jan 04	06:50	64	67	56	82	48
21 Jan 04	07:05	66	68	58	85	53
21 Jan 04	07:20	65	67	58	80	53
21 Jan 04	07:35	65	68	61	77	55
21 Jan 04	07:50	65	68	60	82	55
21 Jan 04	08:05	68	72	62	76	58
21 Jan 04	08:20	67	71	61	79	53
21 Jan 04	08:35	65	67	61	75	54
21 Jan 04	08:50	66	70	61	79	57
21 Jan 04	09:05	65	67	60	85	54
21 Jan 04	09:20	65	68	59	84	53
21 Jan 04	09:35	65	68	60	79	52
21 Jan 04	09:50	64	67	58	77	51
21 Jan 04	10:05	65	67	60	78	52
21 Jan 04	10:20	65	68	60	81	54
21 Jan 04	10:35	66	68	59	84	52
21 Jan 04	10:50	65	68	59	80	52
21 Jan 04	11:05	65	67	59	85	53
21 Jan 04	11:20	67	70	61	83	56
21 Jan 04	11:35	68	71	63	77	56
21 Jan 04	11:50	65	69	58	78	52
21 Jan 04	12:05	65	68	59	78	53
21 Jan 04	12:20	67	69	60	88	54
21 Jan 04	12:35	67	70	59	80	52
21 Jan 04	12:50	64	67	58	82	51
21 Jan 04	13:05	64	67	57	76	53
21 Jan 04	13:20	64	67	58	77	50
21 Jan 04	13:35	65	68	59	79	51
21 Jan 04	13:50	64	67	58	77	51
21 Jan 04	14:05	65	67	59	77	50
21 Jan 04	14:20	65	68	59	77	55
21 Jan 04	14:35	64	67	59	78	52
21 Jan 04	14:50	65	68	59	82	54
21 Jan 04	15:05	65	68	59	84	51
21 Jan 04	15:20	65	67	60	77	56
21 Jan 04	15:35	66	69	60	79	53
21 Jan 04	15:50	68	69	60	88	55
21 Jan 04	16:05	65	67	60	78	54
21 Jan 04	16:20	64	67	59	75	53
21 Jan 04	16:35	65	67	60	81	53
21 Jan 04	16:50	64	66	59	78	52
21 Jan 04	17:05	64	66	59	75	52
21 Jan 04	17:20	64	66	58	78	52
21 Jan 04	17:35	63	65	58	77	53
21 Jan 04	17:50	63	66	58	75	53
21 Jan 04	18:05	63	66	58	75	53

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
21 Jan 04	18:20	63	65	58	72	49
21 Jan 04	18:35	62	65	56	71	48

Table B2 Phase 2 Continuous Noise Monitoring Results Location B

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APPENDIX C
LOCATION C - CONTINUOUS MONITORING DATA

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
03 Jul 04	12:55	60	63	52
03 Jul 04	13:10	60	63	51
03 Jul 04	13:25	60	62	53
03 Jul 04	13:40	60	62	51
03 Jul 04	13:55	61	63	53
03 Jul 04	14:10	60	63	52
03 Jul 04	14:25	60	63	53
03 Jul 04	14:40	60	63	53
03 Jul 04	14:55	60	62	52
03 Jul 04	15:10	60	63	52
03 Jul 04	15:25	60	63	53
03 Jul 04	15:40	61	64	55
03 Jul 04	15:55	60	63	54
03 Jul 04	16:10	60	63	54
03 Jul 04	16:25	60	63	55
03 Jul 04	16:40	60	62	54
03 Jul 04	16:55	60	62	54
03 Jul 04	17:10	59	62	54
03 Jul 04	17:25	58	61	52
03 Jul 04	17:40	60	62	54
03 Jul 04	17:55	62	65	54
03 Jul 04	18:10	59	62	53
03 Jul 04	18:25	61	62	51
03 Jul 04	18:40	59	61	50
03 Jul 04	18:55	59	62	51
03 Jul 04	19:10	59	62	51
03 Jul 04	19:25	60	62	52
03 Jul 04	19:40	59	61	49
03 Jul 04	19:55	59	62	48
03 Jul 04	20:10	59	62	48
03 Jul 04	20:25	59	62	50
03 Jul 04	20:40	58	61	48
03 Jul 04	20:55	58	61	50
03 Jul 04	21:10	58	61	47
03 Jul 04	21:25	58	61	47
03 Jul 04	21:40	57	61	46
03 Jul 04	21:55	57	60	45
03 Jul 04	22:10	57	61	47
03 Jul 04	22:25	57	61	45
03 Jul 04	22:40	56	60	44
03 Jul 04	22:55	56	60	42
03 Jul 04	23:10	55	59	42
03 Jul 04	23:25	54	59	42
03 Jul 04	23:40	55	59	41
03 Jul 04	23:55	54	58	40
04 Jul 04	00:10	52	57	38
04 Jul 04	00:25	54	59	39
04 Jul 04	00:40	53	58	38
04 Jul 04	00:55	52	57	37

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
04 Jul 04	01:10	50	54	35
04 Jul 04	01:25	49	53	35
04 Jul 04	01:40	50	54	36
04 Jul 04	01:55	48	52	36
04 Jul 04	02:10	51	54	35
04 Jul 04	02:25	50	54	36
04 Jul 04	02:40	50	54	34
04 Jul 04	02:55	50	55	35
04 Jul 04	03:10	49	52	34
04 Jul 04	03:25	50	54	35
04 Jul 04	03:40	50	54	35
04 Jul 04	03:55	52	56	34
04 Jul 04	04:10	53	57	36
04 Jul 04	04:25	52	56	37
04 Jul 04	04:40	54	58	38
04 Jul 04	04:55	55	60	40
04 Jul 04	05:10	56	61	41
04 Jul 04	05:25	56	61	42
04 Jul 04	05:40	59	63	43
04 Jul 04	05:55	58	63	45
04 Jul 04	06:10	59	62	46
04 Jul 04	06:25	59	63	50
04 Jul 04	06:40	60	63	49
04 Jul 04	06:55	60	63	54
04 Jul 04	07:10	61	63	53
04 Jul 04	07:25	60	63	55
04 Jul 04	07:40	60	63	54
04 Jul 04	07:55	61	63	53
04 Jul 04	08:10	60	63	54
04 Jul 04	08:25	60	62	52
04 Jul 04	08:40	60	62	54
04 Jul 04	08:55	60	63	53
04 Jul 04	09:10	60	62	51
04 Jul 04	09:25	60	63	52
04 Jul 04	09:40	59	63	51
04 Jul 04	09:55	60	63	50
04 Jul 04	10:10	58	62	48
04 Jul 04	10:25	60	63	53
04 Jul 04	10:40	58	62	49
04 Jul 04	10:55	60	63	53
04 Jul 04	11:10	61	64	52
04 Jul 04	11:25	61	63	52
04 Jul 04	11:40	59	62	52
04 Jul 04	11:55	60	62	53
04 Jul 04	12:10	60	63	52
04 Jul 04	12:25	61	64	52
04 Jul 04	12:40	59	62	51
04 Jul 04	12:55	60	63	50
04 Jul 04	13:10	60	63	53
04 Jul 04	13:25	60	63	53
04 Jul 04	13:40	59	63	51
04 Jul 04	13:55	60	63	53

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
04 Jul 04	14:10	61	63	53
04 Jul 04	14:25	60	63	51
04 Jul 04	14:40	60	62	52
04 Jul 04	14:55	66	63	52
04 Jul 04	15:10	60	62	53
04 Jul 04	15:25	60	62	51
04 Jul 04	15:40	60	62	53
04 Jul 04	15:55	61	63	53
04 Jul 04	16:10	60	62	54
04 Jul 04	16:25	60	62	53
04 Jul 04	16:40	60	62	52
04 Jul 04	16:55	66	62	53
04 Jul 04	17:10	59	62	54
04 Jul 04	17:25	60	63	51
04 Jul 04	17:40	62	64	51
04 Jul 04	17:55	59	62	51
04 Jul 04	18:10	59	63	52
04 Jul 04	18:25	59	62	50
04 Jul 04	18:40	59	62	49
04 Jul 04	18:55	59	62	49
04 Jul 04	19:10	58	61	50
04 Jul 04	19:25	58	61	47
04 Jul 04	19:40	59	62	49
04 Jul 04	19:55	58	62	47
04 Jul 04	20:10	58	62	48
04 Jul 04	20:25	58	61	48
04 Jul 04	20:40	58	61	47
04 Jul 04	20:55	58	61	45
04 Jul 04	21:10	57	61	47
04 Jul 04	21:25	57	61	45
04 Jul 04	21:40	57	61	45
04 Jul 04	21:55	57	61	47
04 Jul 04	22:10	56	60	41
04 Jul 04	22:25	56	60	42
04 Jul 04	22:40	56	60	43
04 Jul 04	22:55	55	60	41
04 Jul 04	23:10	55	59	41
04 Jul 04	23:25	55	59	42
04 Jul 04	23:40	55	60	40
04 Jul 04	23:55	54	59	40
05 Jul 04	00:10	55	59	39
05 Jul 04	00:25	55	60	41
05 Jul 04	00:40	53	58	40
05 Jul 04	00:55	54	59	39
05 Jul 04	01:10	54	58	39
05 Jul 04	01:25	54	59	38
05 Jul 04	01:40	51	56	38
05 Jul 04	01:55	53	58	39
05 Jul 04	02:10	51	56	37
05 Jul 04	02:25	53	58	36
05 Jul 04	02:40	50	54	34
05 Jul 04	02:55	49	53	34

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
05 Jul 04	03:10	51	56	34
05 Jul 04	03:25	51	56	35
05 Jul 04	03:40	52	57	35
05 Jul 04	03:55	52	56	35
05 Jul 04	04:10	53	58	37
05 Jul 04	04:25	53	58	36
05 Jul 04	04:40	54	58	38
05 Jul 04	04:55	54	59	39
05 Jul 04	05:10	55	59	38
05 Jul 04	05:25	55	60	39
05 Jul 04	05:40	56	60	40
05 Jul 04	05:55	58	62	43
05 Jul 04	06:10	57	61	43
05 Jul 04	06:25	57	61	42
05 Jul 04	06:40	57	61	43
05 Jul 04	06:55	58	62	45
05 Jul 04	07:10	58	62	44
05 Jul 04	07:25	59	63	46
05 Jul 04	07:40	59	63	45
05 Jul 04	07:55	58	62	47
05 Jul 04	08:10	59	62	46
05 Jul 04	08:25	59	63	46
05 Jul 04	08:40	59	62	49
05 Jul 04	08:55	58	61	50
05 Jul 04	09:10	59	63	50
05 Jul 04	09:25	58	62	48
05 Jul 04	09:40	59	62	44
05 Jul 04	09:55	59	62	48
05 Jul 04	10:10	59	62	49
05 Jul 04	10:25	60	63	48
05 Jul 04	10:40	59	63	48
05 Jul 04	10:55	59	63	49
05 Jul 04	11:10	59	62	47
05 Jul 04	11:25	59	62	50
05 Jul 04	11:40	58	61	48
05 Jul 04	11:55	59	62	51
05 Jul 04	12:10	58	62	48
05 Jul 04	12:25	59	62	51
05 Jul 04	12:40	59	62	49
05 Jul 04	12:55	58	61	52
05 Jul 04	13:10	60	62	51
05 Jul 04	13:25	58	61	47
05 Jul 04	13:40	58	61	49
05 Jul 04	13:55	58	61	50
05 Jul 04	14:10	58	61	48
05 Jul 04	14:25	59	62	52
05 Jul 04	14:40	59	61	51
05 Jul 04	14:55	58	61	47
05 Jul 04	15:10	59	62	50
05 Jul 04	15:25	59	62	48
05 Jul 04	15:40	58	61	47
05 Jul 04	15:55	58	61	47

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
05 Jul 04	16:10	58	61	45
05 Jul 04	16:25	59	61	46
05 Jul 04	16:40	59	62	47
05 Jul 04	16:55	59	61	47
05 Jul 04	17:10	58	61	47
05 Jul 04	17:25	58	61	46
05 Jul 04	17:40	58	61	47
05 Jul 04	17:55	59	61	52
05 Jul 04	18:10	59	62	51
05 Jul 04	18:25	58	61	50
05 Jul 04	18:40	58	61	50
05 Jul 04	18:55	59	61	49
05 Jul 04	19:10	57	61	48
05 Jul 04	19:25	58	61	48
05 Jul 04	19:40	58	61	48
05 Jul 04	19:55	57	60	47
05 Jul 04	20:10	57	61	47
05 Jul 04	20:25	58	61	47
05 Jul 04	20:40	56	60	42
05 Jul 04	20:55	58	61	45
05 Jul 04	21:10	57	61	45
05 Jul 04	21:25	56	60	43
05 Jul 04	21:40	55	59	40
05 Jul 04	21:55	56	60	43
05 Jul 04	22:10	56	60	40
05 Jul 04	22:25	56	60	41
05 Jul 04	22:40	54	59	40
05 Jul 04	22:55	55	59	40
05 Jul 04	23:10	53	58	34
05 Jul 04	23:25	56	59	41
05 Jul 04	23:40	53	58	38
05 Jul 04	23:55	54	59	37
06 Jul 04	00:10	54	58	39
06 Jul 04	00:25	55	59	40
06 Jul 04	00:40	54	59	38
06 Jul 04	00:55	54	59	39
06 Jul 04	01:10	53	58	36
06 Jul 04	01:25	53	58	38
06 Jul 04	01:40	52	57	37
06 Jul 04	01:55	51	56	37
06 Jul 04	02:10	53	58	36
06 Jul 04	02:25	52	57	36
06 Jul 04	02:40	51	56	36
06 Jul 04	02:55	52	57	38
06 Jul 04	03:10	49	54	36
06 Jul 04	03:25	49	53	35
06 Jul 04	03:40	50	55	35
06 Jul 04	03:55	50	55	35
06 Jul 04	04:10	51	56	35
06 Jul 04	04:25	52	57	38
06 Jul 04	04:40	52	57	37
06 Jul 04	04:55	51	57	37

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
06 Jul 04	05:10	51	56	37
06 Jul 04	05:25	53	58	37
06 Jul 04	05:40	53	58	39
06 Jul 04	05:55	51	57	35
06 Jul 04	06:10	53	58	36
06 Jul 04	06:25	53	58	39
06 Jul 04	06:40	53	58	39
06 Jul 04	06:55	54	59	42
06 Jul 04	07:10	54	59	39
06 Jul 04	07:25	55	59	40
06 Jul 04	07:40	55	60	37
06 Jul 04	07:55	56	60	40
06 Jul 04	08:10	56	60	39
06 Jul 04	08:25	56	60	41
06 Jul 04	08:40	54	59	40
06 Jul 04	08:55	55	60	41
06 Jul 04	09:10	55	60	43
06 Jul 04	09:25	56	60	42
06 Jul 04	09:40	56	60	43
06 Jul 04	09:55	56	60	42
06 Jul 04	10:10	57	60	44
06 Jul 04	10:25	57	60	45
06 Jul 04	10:40	56	60	44
06 Jul 04	10:55	58	61	45
06 Jul 04	11:10	57	61	48
06 Jul 04	11:25	57	60	48
06 Jul 04	11:40	58	60	48
06 Jul 04	11:55	57	60	48
06 Jul 04	12:10	57	60	48
06 Jul 04	12:25	57	60	48
06 Jul 04	12:40	58	61	49
06 Jul 04	12:55	55	58	49
06 Jul 04	13:10	57	60	47
06 Jul 04	13:25	57	60	50
06 Jul 04	13:40	55	57	49
06 Jul 04	13:55	62	61	51
06 Jul 04	14:10	57	60	46
06 Jul 04	14:25	57	61	47
06 Jul 04	14:40	57	60	49
06 Jul 04	14:55	59	61	50
06 Jul 04	15:10	57	60	46
06 Jul 04	15:25	57	60	47
06 Jul 04	15:40	57	61	49
06 Jul 04	15:55	57	60	47
06 Jul 04	16:10	58	61	49
06 Jul 04	16:25	57	60	48
06 Jul 04	16:40	57	60	47
06 Jul 04	16:55	58	61	47
06 Jul 04	17:10	57	60	46
06 Jul 04	17:25	59	60	50
06 Jul 04	17:40	59	60	48
06 Jul 04	17:55	57	60	49

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
06 Jul 04	18:10	58	60	49
06 Jul 04	18:25	57	60	52
06 Jul 04	18:40	57	60	48
06 Jul 04	18:55	57	60	49
06 Jul 04	19:10	57	60	52
06 Jul 04	19:25	58	60	50
06 Jul 04	19:40	58	61	47
06 Jul 04	19:55	57	60	47
06 Jul 04	20:10	58	61	47
06 Jul 04	20:25	58	61	48
06 Jul 04	20:40	57	61	47
06 Jul 04	20:55	58	61	49
06 Jul 04	21:10	57	60	45
06 Jul 04	21:25	57	60	47
06 Jul 04	21:40	56	60	46
06 Jul 04	21:55	56	60	45
06 Jul 04	22:10	57	60	45
06 Jul 04	22:25	55	59	43
06 Jul 04	22:40	55	59	41
06 Jul 04	22:55	55	60	40
06 Jul 04	23:10	54	59	38
06 Jul 04	23:25	55	60	38
06 Jul 04	23:40	53	58	39
06 Jul 04	23:55	53	58	35
07 Jul 04	00:10	52	57	35
07 Jul 04	00:25	51	56	33
07 Jul 04	00:40	51	56	33
07 Jul 04	00:55	51	54	32
07 Jul 04	01:10	49	53	32
07 Jul 04	01:25	50	54	31
07 Jul 04	01:40	42	42	29
07 Jul 04	01:55	49	49	30
07 Jul 04	02:10	49	50	30
07 Jul 04	02:25	46	47	30
07 Jul 04	02:40	45	47	31
07 Jul 04	02:55	47	45	30
07 Jul 04	03:10	47	48	32
07 Jul 04	03:25	48	52	32
07 Jul 04	03:40	43	42	31
07 Jul 04	03:55	50	51	33
07 Jul 04	04:10	51	55	34
07 Jul 04	04:25	51	55	37
07 Jul 04	04:40	52	57	39
07 Jul 04	04:55	54	59	40
07 Jul 04	05:10	55	59	39
07 Jul 04	05:25	56	60	43
07 Jul 04	05:40	57	61	44
07 Jul 04	05:55	58	61	46
07 Jul 04	06:10	59	63	46
07 Jul 04	06:25	59	63	49
07 Jul 04	06:40	60	63	51
07 Jul 04	06:55	60	62	51

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
07 Jul 04	07:10	60	63	55
07 Jul 04	07:25	60	63	54
07 Jul 04	07:40	60	62	55
07 Jul 04	07:55	59	62	53
07 Jul 04	08:10	60	63	53
07 Jul 04	08:25	60	62	52
07 Jul 04	08:40	59	62	54
07 Jul 04	08:55	60	63	53
07 Jul 04	09:10	59	62	52
07 Jul 04	09:25	59	62	52
07 Jul 04	09:40	59	62	51
07 Jul 04	09:55	59	62	50
07 Jul 04	10:10	59	62	50
07 Jul 04	10:25	59	62	50
07 Jul 04	10:40	59	62	50
07 Jul 04	10:55	59	62	50
07 Jul 04	11:10	59	62	52
07 Jul 04	11:25	59	62	53
07 Jul 04	11:40	58	61	50
07 Jul 04	11:55	59	62	52
07 Jul 04	12:10	59	62	52
07 Jul 04	12:25	59	62	52
07 Jul 04	12:40	59	62	51
07 Jul 04	12:55	59	62	51
07 Jul 04	13:10	59	61	52
07 Jul 04	13:25	58	61	51
07 Jul 04	13:40	59	62	52
07 Jul 04	13:55	59	63	52
07 Jul 04	14:10	59	61	51
07 Jul 04	14:25	58	61	52
07 Jul 04	14:40	59	61	50
07 Jul 04	14:55	59	62	51
07 Jul 04	15:10	58	61	52
07 Jul 04	15:25	59	61	49
07 Jul 04	15:40	58	61	52
07 Jul 04	15:55	60	62	51
07 Jul 04	16:10	58	61	51
07 Jul 04	16:25	59	61	54
07 Jul 04	16:40	59	61	52
07 Jul 04	16:55	58	61	50
07 Jul 04	17:10	58	61	52
07 Jul 04	17:25	59	61	51
07 Jul 04	17:40	60	63	54
07 Jul 04	17:55	59	61	53
07 Jul 04	18:10	58	61	52
07 Jul 04	18:25	57	60	50
07 Jul 04	18:40	58	61	46
07 Jul 04	18:55	57	60	48
07 Jul 04	19:10	58	61	48
07 Jul 04	19:25	58	60	49
07 Jul 04	19:40	58	61	47
07 Jul 04	19:55	58	61	48

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
07 Jul 04	20:10	57	60	47
07 Jul 04	20:25	57	60	47
07 Jul 04	20:40	58	61	48
07 Jul 04	20:55	57	60	46
07 Jul 04	21:10	56	60	45
07 Jul 04	21:25	56	60	46
07 Jul 04	21:40	57	60	47
07 Jul 04	21:55	56	59	46
07 Jul 04	22:10	55	59	42
07 Jul 04	22:25	54	58	42
07 Jul 04	22:40	55	59	44
07 Jul 04	22:55	54	58	42
07 Jul 04	23:10	54	59	41
07 Jul 04	23:25	53	58	39
07 Jul 04	23:40	53	57	40
07 Jul 04	23:55	53	57	38
08 Jul 04	00:10	51	55	36
08 Jul 04	00:25	50	55	35
08 Jul 04	00:40	50	55	36
08 Jul 04	00:55	48	52	32
08 Jul 04	01:10	49	51	34
08 Jul 04	01:25	48	52	32
08 Jul 04	01:40	47	51	31
08 Jul 04	01:55	46	45	30
08 Jul 04	02:10	45	45	31
08 Jul 04	02:25	46	47	30
08 Jul 04	02:40	47	47	31
08 Jul 04	02:55	45	45	30
08 Jul 04	03:10	47	47	30
08 Jul 04	03:25	46	46	31
08 Jul 04	03:40	46	47	31
08 Jul 04	03:55	48	50	33
08 Jul 04	04:10	51	55	34
08 Jul 04	04:25	52	56	33
08 Jul 04	04:40	53	57	37
08 Jul 04	04:55	54	59	36
08 Jul 04	05:10	55	60	39
08 Jul 04	05:25	55	60	38
08 Jul 04	05:40	58	61	41
08 Jul 04	05:55	55	60	40
08 Jul 04	06:10	58	62	44
08 Jul 04	06:25	59	63	47
08 Jul 04	06:40	59	62	47
08 Jul 04	06:55	60	63	52
08 Jul 04	07:10	60	63	51
08 Jul 04	07:25	60	63	53
08 Jul 04	07:40	59	62	53
08 Jul 04	07:55	60	62	50
08 Jul 04	08:10	59	62	51
08 Jul 04	08:25	59	62	51
08 Jul 04	08:40	59	62	50
08 Jul 04	08:55	59	62	52

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
08 Jul 04	09:10	59	62	51
08 Jul 04	09:25	58	62	47
08 Jul 04	09:40	59	62	52
08 Jul 04	09:55	59	62	51
08 Jul 04	10:10	58	61	51
08 Jul 04	10:25	59	62	50
08 Jul 04	10:40	61	63	48
08 Jul 04	10:55	59	62	50
08 Jul 04	11:10	59	62	50
08 Jul 04	11:25	59	62	50
08 Jul 04	11:40	58	62	47
08 Jul 04	11:55	59	62	51
08 Jul 04	12:10	61	64	53
08 Jul 04	12:25	60	63	55
08 Jul 04	12:40	61	64	55
08 Jul 04	12:55	61	64	53
08 Jul 04	13:10	58	61	48
08 Jul 04	13:25	59	62	46
08 Jul 04	13:40	59	62	50
08 Jul 04	13:55	59	62	50
08 Jul 04	14:10	59	62	51
08 Jul 04	14:25	59	61	51
08 Jul 04	14:40	59	61	51
08 Jul 04	14:55	64	69	54
08 Jul 04	15:10	66	70	54
08 Jul 04	15:25	58	61	50
08 Jul 04	15:40	60	63	52
08 Jul 04	15:55	59	61	51
08 Jul 04	16:10	57	60	52
08 Jul 04	16:25	59	61	53
08 Jul 04	16:40	59	62	52
08 Jul 04	16:55	59	61	53
08 Jul 04	17:10	58	61	51
08 Jul 04	17:25	59	61	53
08 Jul 04	17:40	59	61	50
08 Jul 04	17:55	59	61	53
08 Jul 04	18:10	60	64	49
08 Jul 04	18:25	58	60	49
08 Jul 04	18:40	58	61	52
08 Jul 04	18:55	58	61	49
08 Jul 04	19:10	58	61	48
08 Jul 04	19:25	57	61	49
08 Jul 04	19:40	57	61	47
08 Jul 04	19:55	57	60	48
08 Jul 04	20:10	60	61	48
08 Jul 04	20:25	58	60	45
08 Jul 04	20:40	58	61	49
08 Jul 04	20:55	57	60	46
08 Jul 04	21:10	57	60	45
08 Jul 04	21:25	57	60	45
08 Jul 04	21:40	56	60	44
08 Jul 04	21:55	56	60	44

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
08 Jul 04	22:10	56	60	41
08 Jul 04	22:25	55	59	43
08 Jul 04	22:40	55	59	42
08 Jul 04	22:55	56	60	43
08 Jul 04	23:10	54	59	39
08 Jul 04	23:25	53	57	38
08 Jul 04	23:40	54	58	38
08 Jul 04	23:55	53	57	37
09 Jul 04	00:10	53	58	37
09 Jul 04	00:25	52	56	36
09 Jul 04	00:40	48	53	33
09 Jul 04	00:55	48	52	31
09 Jul 04	01:10	50	55	31
09 Jul 04	01:25	50	52	35
09 Jul 04	01:40	49	50	38
09 Jul 04	01:55	46	47	34
09 Jul 04	02:10	48	52	32
09 Jul 04	02:25	45	45	33
09 Jul 04	02:40	46	46	34
09 Jul 04	02:55	46	51	35
09 Jul 04	03:10	42	41	34
09 Jul 04	03:25	47	47	37
09 Jul 04	03:40	46	48	35
09 Jul 04	03:55	50	53	33
09 Jul 04	04:10	50	53	37
09 Jul 04	04:25	51	54	34
09 Jul 04	04:40	54	58	39
09 Jul 04	04:55	54	58	39
09 Jul 04	05:10	54	59	40
09 Jul 04	05:25	56	61	41
09 Jul 04	05:40	55	60	41
09 Jul 04	05:55	56	61	39
09 Jul 04	06:10	57	61	43
09 Jul 04	06:25	60	63	45
09 Jul 04	06:40	59	62	47
09 Jul 04	06:55	60	62	49
09 Jul 04	07:10	60	62	52
09 Jul 04	07:25	59	62	52
09 Jul 04	07:40	59	62	53
09 Jul 04	07:55	59	62	51
09 Jul 04	08:10	59	62	52
09 Jul 04	08:25	58	61	50
09 Jul 04	08:40	59	62	52
09 Jul 04	08:55	59	62	51
09 Jul 04	09:10	59	62	51
09 Jul 04	09:25	59	61	44
09 Jul 04	09:40	59	62	48
09 Jul 04	09:55	58	61	48
09 Jul 04	10:10	59	62	48
09 Jul 04	10:25	58	61	47
09 Jul 04	10:40	58	62	48
09 Jul 04	10:55	59	62	51

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)		
		L _{Aeq}	L _{A10}	L _{A90}
09 Jul 04	11:10	58	61	51
09 Jul 04	11:25	59	62	52
09 Jul 04	11:40	59	62	51
09 Jul 04	11:55	58	61	52
09 Jul 04	12:10	59	62	51
09 Jul 04	12:25	58	61	52
09 Jul 04	12:40	59	62	51
09 Jul 04	12:55	59	62	52
09 Jul 04	13:10	59	61	52
09 Jul 04	13:25	58	61	52
09 Jul 04	13:40	59	61	52
09 Jul 04	13:55	59	62	51
09 Jul 04	14:10	58	61	52
09 Jul 04	14:25	59	62	54
09 Jul 04	14:40	60	62	52
09 Jul 04	14:55	59	61	52
09 Jul 04	15:10	59	62	52
09 Jul 04	15:25	59	61	53
09 Jul 04	15:40	58	61	52
09 Jul 04	15:55	59	61	52
09 Jul 04	16:10	59	62	53
09 Jul 04	16:25	59	62	54
09 Jul 04	16:40	58	61	53
09 Jul 04	16:55	58	60	53
09 Jul 04	17:10	61	62	55
09 Jul 04	17:25	59	61	53
09 Jul 04	17:40	59	61	53
09 Jul 04	17:55	60	62	55
09 Jul 04	18:10	59	61	54
09 Jul 04	18:25	58	61	51
09 Jul 04	18:40	59	63	51
09 Jul 04	18:55	57	60	50
09 Jul 04	19:10	59	62	52
09 Jul 04	19:25	58	61	50
09 Jul 04	19:40	57	60	47
09 Jul 04	19:55	58	61	49
09 Jul 04	20:10	60	62	49
09 Jul 04	20:25	57	60	48
09 Jul 04	20:40	58	61	52
09 Jul 04	20:55	59	62	52
09 Jul 04	21:10	59	61	52
09 Jul 04	21:25	58	61	51
09 Jul 04	21:40	59	62	53
09 Jul 04	21:55	59	62	51
09 Jul 04	22:10	58	61	51
09 Jul 04	22:25	59	62	52
09 Jul 04	22:40	59	62	53
09 Jul 04	22:55	59	61	52
09 Jul 04	23:10	59	61	53
09 Jul 04	23:25	64	61	53
09 Jul 04	23:40	61	64	53

Table C1 Phase 1 Continuous Noise Monitoring Results Location C

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
03 Feb 04	19:45:00	60	73	47	63	52
03 Feb 04	20:00:00	61	68	50	64	53
03 Feb 04	20:15:00	60	69	47	63	52
03 Feb 04	20:30:00	60	74	48	63	53
03 Feb 04	20:45:00	60	72	45	63	52
03 Feb 04	21:00:00	59	66	45	62	50
03 Feb 04	21:15:00	59	70	45	63	50
03 Feb 04	21:30:00	59	68	45	62	49
03 Feb 04	21:45:00	60	75	46	63	50
03 Feb 04	22:00:00	59	72	43	62	47
03 Feb 04	22:15:00	60	78	45	62	49
03 Feb 04	22:30:00	58	70	44	62	48
03 Feb 04	22:45:00	58	69	41	62	46
03 Feb 04	23:00:00	59	75	41	62	46
03 Feb 04	23:15:00	56	67	40	61	43
03 Feb 04	23:30:00	58	69	38	62	47
03 Feb 04	23:45:00	56	73	38	60	44
04 Feb 04	00:00:00	55	74	38	60	42
04 Feb 04	00:15:00	53	67	38	58	41
04 Feb 04	00:30:00	53	66	36	58	39
04 Feb 04	00:45:00	53	72	35	58	38
04 Feb 04	01:00:00	53	67	33	58	36
04 Feb 04	01:15:00	51	68	33	55	35
04 Feb 04	01:30:00	55	79	33	54	35
04 Feb 04	01:45:00	49	73	32	48	34
04 Feb 04	02:00:00	49	65	33	53	35
04 Feb 04	02:15:00	43	64	32	42	34
04 Feb 04	02:30:00	53	73	33	55	36
04 Feb 04	02:45:00	47	65	33	48	35
04 Feb 04	03:00:00	51	70	33	52	35
04 Feb 04	03:15:00	48	66	33	49	35
04 Feb 04	03:30:00	46	65	35	45	37
04 Feb 04	03:45:00	50	65	38	51	40
04 Feb 04	04:00:00	52	75	37	49	39
04 Feb 04	04:15:00	50	69	35	51	36
04 Feb 04	04:30:00	52	71	35	55	37
04 Feb 04	04:45:00	55	71	37	58	40
04 Feb 04	05:00:00	56	72	39	60	40
04 Feb 04	05:15:00	57	73	39	61	44
04 Feb 04	05:30:00	57	70	40	62	43
04 Feb 04	05:45:00	58	71	43	62	47
04 Feb 04	06:00:00	59	72	43	63	46
04 Feb 04	06:15:00	60	73	43	64	49
04 Feb 04	06:30:00	62	74	48	66	53
04 Feb 04	06:45:00	62	76	47	65	52
04 Feb 04	07:00:00	63	72	48	66	56
04 Feb 04	07:15:00	63	73	50	66	57
04 Feb 04	07:30:00	64	79	49	66	59
04 Feb 04	07:45:00	63	71	52	65	59

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
04 Feb 04	08:00:00	63	74	54	65	59
04 Feb 04	08:15:00	63	72	55	65	59
04 Feb 04	08:30:00	63	72	55	66	59
04 Feb 04	08:45:00	63	72	51	65	58
04 Feb 04	09:00:00	63	76	54	66	59
04 Feb 04	09:15:00	63	72	52	66	58
04 Feb 04	09:30:00	62	75	51	65	55
04 Feb 04	09:45:00	63	74	49	65	58
04 Feb 04	10:00:00	62	75	50	65	56
04 Feb 04	10:15:00	62	75	51	65	55
04 Feb 04	10:30:00	63	76	50	65	55
04 Feb 04	10:45:00	62	75	52	65	55
04 Feb 04	11:00:00	63	73	51	65	57
04 Feb 04	11:15:00	62	73	51	65	56
04 Feb 04	11:30:00	62	73	51	65	55
04 Feb 04	11:45:00	62	76	51	65	56
04 Feb 04	12:00:00	62	82	51	65	55
04 Feb 04	12:15:00	62	73	51	64	55
04 Feb 04	12:30:00	62	72	49	65	55
04 Feb 04	12:45:00	61	71	49	64	54
04 Feb 04	13:00:00	62	77	50	64	55
04 Feb 04	13:15:00	62	79	51	65	57
04 Feb 04	13:30:00	63	77	50	65	56
04 Feb 04	13:45:00	62	75	50	64	55
04 Feb 04	14:00:00	63	80	52	66	56
04 Feb 04	14:15:00	62	72	51	65	56
04 Feb 04	14:30:00	63	76	51	65	57
04 Feb 04	14:45:00	62	72	51	65	56
04 Feb 04	15:00:00	62	74	50	65	56
04 Feb 04	15:15:00	63	86	51	64	55
04 Feb 04	15:30:00	63	74	52	66	58
04 Feb 04	15:45:00	63	74	51	65	57
04 Feb 04	16:00:00	62	76	52	65	57
04 Feb 04	16:15:00	62	76	50	64	57
04 Feb 04	16:30:00	63	77	50	64	57
04 Feb 04	16:45:00	64	86	51	65	58
04 Feb 04	17:00:00	62	72	52	64	57
04 Feb 04	17:15:00	62	78	50	65	56
04 Feb 04	17:30:00	62	75	51	64	58
04 Feb 04	17:45:00	62	74	49	64	57
04 Feb 04	18:00:00	61	76	49	64	56
04 Feb 04	18:15:00	61	71	52	64	57
04 Feb 04	18:30:00	61	75	49	64	55
04 Feb 04	18:45:00	62	80	50	64	55
04 Feb 04	19:00:00	61	71	48	64	55
04 Feb 04	19:15:00	64	87	49	64	55
04 Feb 04	19:30:00	61	77	50	64	55
04 Feb 04	19:45:00	62	72	49	64	55
04 Feb 04	20:00:00	61	70	50	64	55

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
04 Feb 04	20:15:00	60	71	48	63	53
04 Feb 04	20:30:00	60	68	47	63	51
04 Feb 04	20:45:00	61	76	47	64	52
04 Feb 04	21:00:00	60	74	47	63	51
04 Feb 04	21:15:00	60	75	46	63	51
04 Feb 04	21:30:00	60	73	47	63	52
04 Feb 04	21:45:00	59	69	48	63	51
04 Feb 04	22:00:00	59	69	46	62	50
04 Feb 04	22:15:00	59	69	46	62	51
04 Feb 04	22:30:00	58	72	45	62	49
04 Feb 04	22:45:00	58	72	45	61	49
04 Feb 04	23:00:00	58	72	45	62	48
04 Feb 04	23:15:00	57	71	44	61	48
04 Feb 04	23:30:00	58	73	46	62	49
04 Feb 04	23:45:00	57	67	44	61	48
05 Feb 04	00:00:00	57	71	43	61	48
05 Feb 04	00:15:00	55	67	42	60	45
05 Feb 04	00:30:00	54	71	43	58	45
05 Feb 04	00:45:00	56	73	42	60	44
05 Feb 04	01:00:00	54	68	41	59	44
05 Feb 04	01:15:00	51	66	39	55	41
05 Feb 04	01:30:00	54	71	41	58	43
05 Feb 04	01:45:00	53	70	38	56	41
05 Feb 04	02:00:00	50	67	39	53	40
05 Feb 04	02:15:00	50	69	38	54	40
05 Feb 04	02:30:00	50	71	37	53	40
05 Feb 04	02:45:00	52	74	39	54	42
05 Feb 04	03:00:00	52	71	40	54	42
05 Feb 04	03:15:00	52	70	39	55	41
05 Feb 04	03:30:00	52	72	38	54	40
05 Feb 04	03:45:00	53	73	39	57	42
05 Feb 04	04:00:00	52	73	41	56	43
05 Feb 04	04:15:00	55	74	41	59	44
05 Feb 04	04:30:00	52	71	41	56	43
05 Feb 04	04:45:00	54	70	41	58	44
05 Feb 04	05:00:00	56	70	42	60	45
05 Feb 04	05:15:00	58	73	42	62	47
05 Feb 04	05:30:00	58	79	43	62	47
05 Feb 04	05:45:00	58	70	44	62	47
05 Feb 04	06:00:00	60	74	45	63	49
05 Feb 04	06:15:00	60	73	45	64	48
05 Feb 04	06:30:00	62	75	47	65	53
05 Feb 04	06:45:00	62	72	49	65	54
05 Feb 04	07:00:00	63	70	49	66	57
05 Feb 04	07:15:00	63	73	52	65	57
05 Feb 04	07:30:00	64	88	52	64	57
05 Feb 04	07:45:00	62	73	50	65	56
05 Feb 04	08:00:00	63	75	54	65	59
05 Feb 04	08:15:00	62	71	50	64	55

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
05 Feb 04	08:30:00	61	71	52	64	56
05 Feb 04	08:45:00	62	75	51	64	56
05 Feb 04	09:00:00	62	74	51	64	57
05 Feb 04	09:15:00	63	80	50	65	57
05 Feb 04	09:30:00	63	75	50	65	54
05 Feb 04	09:45:00	62	72	52	64	57
05 Feb 04	10:00:00	63	76	53	65	56
05 Feb 04	10:15:00	62	77	50	65	55
05 Feb 04	10:30:00	61	74	51	64	55
05 Feb 04	10:45:00	62	79	50	65	55
05 Feb 04	11:00:00	62	75	49	64	55
05 Feb 04	11:15:00	62	75	49	65	54
05 Feb 04	11:30:00	63	80	50	65	54
05 Feb 04	11:45:00	61	70	52	64	55
05 Feb 04	12:00:00	62	72	51	64	55
05 Feb 04	12:15:00	62	72	51	65	56
05 Feb 04	12:30:00	63	85	52	65	56
05 Feb 04	12:45:00	62	79	51	65	57
05 Feb 04	13:00:00	62	73	49	65	55
05 Feb 04	13:15:00	62	75	50	64	55
05 Feb 04	13:30:00	62	73	51	64	57
05 Feb 04	13:45:00	61	74	50	64	55
05 Feb 04	14:00:00	62	73	50	64	56
05 Feb 04	14:15:00	62	75	48	65	56
05 Feb 04	14:30:00	63	81	50	65	56
05 Feb 04	14:45:00	62	74	49	64	55
05 Feb 04	15:00:00	62	77	49	65	54
05 Feb 04	15:15:00	63	78	49	65	54
05 Feb 04	15:30:00	62	72	50	65	56
05 Feb 04	15:45:00	63	79	52	65	57
05 Feb 04	16:00:00	60	69	51	63	55
05 Feb 04	16:15:00	63	80	52	66	57
05 Feb 04	16:30:00	61	71	51	64	57
05 Feb 04	16:45:00	62	71	48	64	55
05 Feb 04	17:00:00	61	78	49	63	55
05 Feb 04	17:15:00	63	76	49	65	57
05 Feb 04	17:30:00	61	74	48	63	54
05 Feb 04	17:45:00	61	79	49	63	55
05 Feb 04	18:11:14	62	81	52	64	56
05 Feb 04	18:15:00	62	73	50	64	57
05 Feb 04	18:30:00	61	79	50	64	55
05 Feb 04	18:45:00	61	72	50	63	55
05 Feb 04	19:00:00	62	73	48	64	54
05 Feb 04	19:15:00	61	74	48	64	55
05 Feb 04	19:30:00	64	85	49	64	55
05 Feb 04	19:45:00	62	74	50	64	56
05 Feb 04	20:00:00	61	85	47	64	53
05 Feb 04	20:15:00	60	77	48	63	52
05 Feb 04	20:30:00	61	86	47	63	53

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
05 Feb 04	20:45:00	61	75	49	63	54
05 Feb 04	21:00:00	60	72	48	63	52
05 Feb 04	21:15:00	60	70	47	63	52
05 Feb 04	21:30:00	61	80	48	64	53
05 Feb 04	21:45:00	59	69	47	62	51
05 Feb 04	22:00:00	59	72	48	63	51
05 Feb 04	22:15:00	60	73	48	63	51
05 Feb 04	22:30:00	60	73	49	63	52
05 Feb 04	22:45:00	59	72	46	63	51
05 Feb 04	23:00:00	60	78	46	63	52
05 Feb 04	23:15:00	58	70	45	62	49
05 Feb 04	23:30:00	58	74	45	61	49
05 Feb 04	23:45:00	57	68	45	61	48
06 Feb 04	00:00:00	56	73	43	61	47
06 Feb 04	00:15:00	56	70	44	61	46
06 Feb 04	00:30:00	55	74	43	59	46
06 Feb 04	00:45:00	56	71	43	60	46
06 Feb 04	01:00:00	56	77	41	60	45
06 Feb 04	01:15:00	54	72	41	58	43
06 Feb 04	01:30:00	54	72	41	59	44
06 Feb 04	01:45:00	55	74	42	59	45
06 Feb 04	02:00:00	52	69	40	55	42
06 Feb 04	02:15:00	53	71	40	58	43
06 Feb 04	02:30:00	52	65	38	56	42
06 Feb 04	02:45:00	53	69	39	58	43
06 Feb 04	03:00:00	52	65	39	56	41
06 Feb 04	03:15:00	50	65	38	53	40
06 Feb 04	03:30:00	54	71	39	57	41
06 Feb 04	03:45:00	52	70	38	54	40
06 Feb 04	04:00:00	53	75	37	56	39
06 Feb 04	04:15:00	53	71	38	55	40
06 Feb 04	04:30:00	53	71	37	56	39
06 Feb 04	04:45:00	52	71	37	54	39
06 Feb 04	05:00:00	55	67	38	60	42
06 Feb 04	05:15:00	57	70	39	61	42
06 Feb 04	05:30:00	57	71	40	61	43
06 Feb 04	05:45:00	57	72	40	62	43
06 Feb 04	06:00:00	60	74	43	64	46
06 Feb 04	06:15:00	60	74	44	65	48
06 Feb 04	06:30:00	62	75	48	65	52
06 Feb 04	06:45:00	62	77	47	65	51
06 Feb 04	07:00:00	62	76	49	65	55
06 Feb 04	07:15:00	63	76	48	65	58
06 Feb 04	07:30:00	62	69	49	64	55
06 Feb 04	07:45:00	62	70	51	64	58
06 Feb 04	08:00:00	62	78	49	64	57
06 Feb 04	08:15:00	62	73	49	64	56
06 Feb 04	08:30:00	62	71	52	64	58
06 Feb 04	08:45:00	62	75	51	65	56

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
06 Feb 04	09:00:00	62	72	50	65	57
06 Feb 04	09:15:00	62	77	51	65	57
06 Feb 04	09:30:00	61	70	48	64	54
06 Feb 04	09:45:00	63	74	48	65	55
06 Feb 04	10:00:00	62	79	47	65	53
06 Feb 04	10:15:00	61	74	47	64	52
06 Feb 04	10:30:00	62	75	47	65	54
06 Feb 04	10:45:00	62	74	46	65	52
06 Feb 04	11:00:00	61	72	47	64	54
06 Feb 04	11:15:00	62	75	48	65	56
06 Feb 04	11:30:00	61	73	47	65	53
06 Feb 04	11:45:00	61	73	47	64	53
06 Feb 04	12:00:00	61	70	47	64	53
06 Feb 04	12:15:00	62	82	48	64	55
06 Feb 04	12:30:00	62	76	47	65	54
06 Feb 04	12:45:00	62	74	47	64	54
06 Feb 04	13:00:00	62	74	47	64	55
06 Feb 04	13:15:00	62	77	45	65	53
06 Feb 04	13:30:00	62	73	46	65	54
06 Feb 04	13:45:00	62	75	45	65	52
06 Feb 04	14:00:00	62	77	48	64	54
06 Feb 04	14:15:00	61	72	47	64	54
06 Feb 04	14:30:00	61	73	45	64	52
06 Feb 04	14:45:00	62	74	45	65	54
06 Feb 04	15:00:00	62	76	48	64	55
06 Feb 04	15:15:00	62	79	45	65	55
06 Feb 04	15:30:00	62	75	47	64	55
06 Feb 04	15:45:00	61	74	47	64	54
06 Feb 04	16:00:00	62	71	48	64	57
06 Feb 04	16:15:00	61	77	46	64	53
06 Feb 04	16:30:00	62	72	50	64	56
06 Feb 04	16:45:00	62	78	48	64	56
06 Feb 04	17:00:00	62	80	48	64	54
06 Feb 04	17:15:00	61	74	48	64	54
06 Feb 04	17:30:00	61	73	49	64	56
06 Feb 04	17:45:00	61	76	48	63	53
06 Feb 04	18:00:00	62	73	50	64	55
06 Feb 04	18:15:00	64	78	48	66	55
06 Feb 04	18:30:00	61	73	47	64	54
06 Feb 04	18:45:00	62	74	49	64	55
06 Feb 04	19:00:00	62	76	46	64	54
06 Feb 04	19:15:00	64	86	49	64	55
06 Feb 04	19:30:00	61	72	49	64	54
06 Feb 04	19:45:00	61	68	47	64	51
06 Feb 04	20:00:00	60	68	47	64	52
06 Feb 04	20:15:00	61	72	47	64	52
06 Feb 04	20:30:00	61	73	47	64	54
06 Feb 04	20:45:00	61	70	47	64	53
06 Feb 04	21:00:00	61	74	47	64	52

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
06 Feb 04	21:15:00	60	74	46	64	51
06 Feb 04	21:30:00	60	72	46	63	50
06 Feb 04	21:45:00	60	72	47	64	51
06 Feb 04	22:00:00	59	73	48	63	51
06 Feb 04	22:15:00	59	75	46	63	49
06 Feb 04	22:30:00	59	75	47	62	50
06 Feb 04	22:45:00	57	67	45	61	48
06 Feb 04	23:00:00	59	77	44	62	48
06 Feb 04	23:15:00	58	68	44	62	48
06 Feb 04	23:30:00	56	67	43	61	47
06 Feb 04	23:45:00	58	67	44	62	47
07 Feb 04	00:00:00	58	75	44	62	47
07 Feb 04	00:15:00	57	69	44	61	47
07 Feb 04	00:30:00	57	75	44	61	47
07 Feb 04	00:45:00	56	69	43	61	46
07 Feb 04	01:00:00	56	67	43	61	47
07 Feb 04	01:15:00	57	69	45	61	48
07 Feb 04	01:30:00	56	70	44	60	48
07 Feb 04	01:45:00	57	71	43	61	47
07 Feb 04	02:00:00	57	71	43	61	47
07 Feb 04	02:15:00	56	77	43	60	47
07 Feb 04	02:30:00	55	69	42	59	45
07 Feb 04	02:45:00	56	71	43	60	46
07 Feb 04	03:00:00	54	66	41	59	43
07 Feb 04	03:15:00	53	68	41	58	43
07 Feb 04	03:30:00	54	69	41	59	43
07 Feb 04	03:45:00	54	74	40	59	42
07 Feb 04	04:00:00	49	66	39	50	40
07 Feb 04	04:15:00	55	71	40	59	42
07 Feb 04	04:30:00	56	74	41	60	45
07 Feb 04	04:45:00	56	72	41	60	44
07 Feb 04	05:00:00	55	68	39	59	43
07 Feb 04	05:15:00	56	69	40	61	44
07 Feb 04	05:30:00	56	68	41	61	44
07 Feb 04	05:45:00	56	70	40	61	44
07 Feb 04	06:00:00	57	70	42	61	45
07 Feb 04	06:15:00	57	71	43	61	46
07 Feb 04	06:30:00	58	70	44	62	47
07 Feb 04	06:45:00	60	79	45	63	49
07 Feb 04	07:00:00	58	69	44	63	47
07 Feb 04	07:15:00	60	78	47	64	50
07 Feb 04	07:30:00	60	79	46	64	51
07 Feb 04	07:45:00	61	71	47	64	50
07 Feb 04	08:00:00	61	72	48	65	52
07 Feb 04	08:15:00	61	72	47	65	53
07 Feb 04	08:30:00	61	70	48	64	53
07 Feb 04	08:45:00	61	73	48	64	54
07 Feb 04	09:00:00	62	74	50	65	53
07 Feb 04	09:15:00	62	73	49	64	54

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
07 Feb 04	09:30:00	62	78	49	65	55
07 Feb 04	09:45:00	62	71	47	65	54
07 Feb 04	10:00:00	61	71	48	64	54
07 Feb 04	10:15:00	62	72	50	65	55
07 Feb 04	10:30:00	62	74	49	64	54
07 Feb 04	10:45:00	61	72	46	64	55
07 Feb 04	11:00:00	61	72	50	64	55
07 Feb 04	11:15:00	62	71	49	64	57
07 Feb 04	11:30:00	62	73	50	64	56
07 Feb 04	11:45:00	62	71	48	65	55
07 Feb 04	12:00:00	68	93	51	65	55
07 Feb 04	12:15:00	62	70	50	65	57
07 Feb 04	12:30:00	62	76	51	65	57
07 Feb 04	12:45:00	61	71	48	64	55
07 Feb 04	13:00:00	62	73	47	64	56
07 Feb 04	13:15:00	62	72	48	64	55
07 Feb 04	13:30:00	62	69	50	64	57
07 Feb 04	13:45:00	62	70	52	64	57
07 Feb 04	14:00:00	61	73	48	64	55
07 Feb 04	14:15:00	63	83	49	66	58
07 Feb 04	14:30:00	62	71	50	65	57
07 Feb 04	14:45:00	63	70	50	65	59
07 Feb 04	15:00:00	62	73	50	65	56
07 Feb 04	15:15:00	62	72	51	65	57
07 Feb 04	15:30:00	62	71	50	65	57
07 Feb 04	15:45:00	63	73	47	65	57
07 Feb 04	16:00:00	62	71	49	64	58
07 Feb 04	16:15:00	62	70	51	65	56
07 Feb 04	16:30:00	63	75	50	65	57
07 Feb 04	16:45:00	62	74	49	65	55
07 Feb 04	17:00:00	62	75	49	64	57
07 Feb 04	17:15:00	62	70	49	64	56
07 Feb 04	17:30:00	62	73	51	64	56
07 Feb 04	17:45:00	62	74	50	65	55
07 Feb 04	18:00:00	63	74	51	65	57
07 Feb 04	18:15:00	63	78	50	66	58
07 Feb 04	18:30:00	62	76	51	65	57
07 Feb 04	18:45:00	62	77	49	65	55
07 Feb 04	19:00:00	62	75	50	65	56
07 Feb 04	19:15:00	62	71	50	65	56
07 Feb 04	19:30:00	63	80	51	65	57
07 Feb 04	19:45:00	62	74	51	65	56
07 Feb 04	20:00:00	62	73	50	65	55
07 Feb 04	20:15:00	62	80	48	65	54
07 Feb 04	20:30:00	63	82	50	66	56
07 Feb 04	20:45:00	63	87	49	65	55
07 Feb 04	21:00:00	61	76	47	64	53
07 Feb 04	21:15:00	61	77	47	65	54
07 Feb 04	21:30:00	62	83	46	65	51

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
07 Feb 04	21:45:00	61	71	47	64	53
07 Feb 04	22:00:00	59	75	46	63	50
07 Feb 04	22:15:00	59	74	45	63	51
07 Feb 04	22:30:00	59	73	44	63	49
07 Feb 04	22:45:00	60	79	47	63	50
07 Feb 04	23:00:00	59	74	47	63	50
07 Feb 04	23:15:00	59	72	45	63	49
07 Feb 04	23:30:00	59	75	47	62	50
07 Feb 04	23:45:00	59	75	45	62	49
08 Feb 04	00:00:00	59	76	43	62	49
08 Feb 04	00:15:00	59	76	45	62	50
08 Feb 04	00:30:00	60	77	46	63	50
08 Feb 04	00:45:00	58	75	45	62	49
08 Feb 04	01:00:00	58	77	43	61	48
08 Feb 04	01:15:00	60	82	44	63	49
08 Feb 04	01:30:00	64	87	45	62	49
08 Feb 04	01:45:00	57	73	44	61	47
08 Feb 04	02:00:00	57	69	43	62	47
08 Feb 04	02:15:00	57	74	44	61	47
08 Feb 04	02:30:00	56	70	43	60	46
08 Feb 04	02:45:00	55	69	41	60	44
08 Feb 04	03:00:00	55	73	41	59	44
08 Feb 04	03:15:00	55	72	41	59	43
08 Feb 04	03:30:00	53	69	39	57	42
08 Feb 04	03:45:00	53	74	41	57	43
08 Feb 04	04:00:00	61	89	41	60	45
08 Feb 04	04:15:00	55	69	42	60	45
08 Feb 04	04:30:00	54	69	41	57	44
08 Feb 04	04:45:00	54	74	40	58	44
08 Feb 04	05:00:00	55	69	41	60	44
08 Feb 04	05:15:00	56	67	41	61	45
08 Feb 04	05:30:00	56	72	41	60	45
08 Feb 04	05:45:00	56	70	39	60	41
08 Feb 04	06:00:00	55	70	39	59	42
08 Feb 04	06:15:00	55	67	40	60	44
08 Feb 04	06:30:00	56	74	41	61	43
08 Feb 04	06:45:00	55	68	40	60	44
08 Feb 04	07:00:00	63	73	48	66	56
08 Feb 04	07:15:00	63	73	51	66	57
08 Feb 04	07:30:00	64	79	49	67	59
08 Feb 04	07:45:00	63	71	52	65	59
08 Feb 04	08:00:00	63	74	54	65	59
08 Feb 04	08:15:00	63	71	54	65	59
08 Feb 04	08:30:00	62	72	55	65	59
08 Feb 04	08:45:00	63	72	51	65	58
08 Feb 04	09:00:00	63	76	54	66	59
08 Feb 04	09:15:00	63	72	52	66	58
08 Feb 04	09:30:00	62	75	51	65	55
08 Feb 04	09:45:00	63	74	49	65	58

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
08 Feb 04	10:00:00	63	74	50	65	56
08 Feb 04	10:15:00	62	75	51	64	55
08 Feb 04	10:30:00	63	76	50	65	55
08 Feb 04	10:45:00	62	75	52	65	56
08 Feb 04	11:00:00	63	73	51	65	57
08 Feb 04	11:15:00	63	73	51	65	56
08 Feb 04	11:30:00	62	73	51	65	55
08 Feb 04	11:45:00	61	76	51	65	56
08 Feb 04	12:00:00	62	82	51	64	55
08 Feb 04	12:15:00	62	73	51	64	55
08 Feb 04	12:30:00	62	72	49	65	55
08 Feb 04	12:45:00	61	71	49	64	54
08 Feb 04	13:00:00	62	77	50	64	55
08 Feb 04	13:15:00	62	79	51	65	57
08 Feb 04	13:30:00	63	76	50	65	56
08 Feb 04	13:45:00	62	75	50	64	56
08 Feb 04	14:00:00	63	80	52	66	56
08 Feb 04	14:15:00	62	72	51	65	56
08 Feb 04	14:30:00	64	76	51	65	57
08 Feb 04	14:45:00	62	72	51	64	56
08 Feb 04	15:00:00	62	74	50	65	56
08 Feb 04	15:15:00	63	86	52	64	55
08 Feb 04	15:30:00	63	74	52	66	58
08 Feb 04	15:45:00	63	74	51	65	57
08 Feb 04	16:00:00	62	76	52	65	57
08 Feb 04	16:15:00	62	76	50	64	57
08 Feb 04	16:30:00	63	77	50	64	57
08 Feb 04	16:45:00	64	86	51	65	58
08 Feb 04	17:00:00	62	72	52	64	57
08 Feb 04	17:15:00	62	78	50	65	56
08 Feb 04	17:30:00	62	75	51	64	57
08 Feb 04	17:45:00	62	74	49	64	57
08 Feb 04	18:00:00	62	76	50	64	56
08 Feb 04	18:15:00	61	71	52	64	57
08 Feb 04	18:30:00	61	75	49	64	55
08 Feb 04	18:45:00	62	80	49	63	55
08 Feb 04	19:00:00	62	70	48	64	55
08 Feb 04	19:15:00	64	87	49	64	55
08 Feb 04	19:30:00	61	77	50	64	55
08 Feb 04	19:45:00	62	72	49	64	55
08 Feb 04	20:00:00	61	70	50	63	55
08 Feb 04	20:15:00	60	71	48	63	53
08 Feb 04	20:30:00	60	68	47	63	51
08 Feb 04	20:45:00	61	76	47	64	52
08 Feb 04	21:00:00	60	74	47	63	51
08 Feb 04	21:15:00	60	75	47	64	51
08 Feb 04	21:30:00	60	73	47	63	52
08 Feb 04	21:45:00	59	69	48	63	51
08 Feb 04	22:00:00	59	69	46	62	50

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
08 Feb 04	22:15:00	59	69	46	62	51
08 Feb 04	22:30:00	58	72	45	62	49
08 Feb 04	22:45:00	58	72	45	61	49
08 Feb 04	23:00:00	58	72	45	62	48
08 Feb 04	23:15:00	57	71	44	61	48
08 Feb 04	23:30:00	58	73	46	62	49
08 Feb 04	23:45:00	57	67	44	61	47
09 Feb 04	00:00:00	57	71	43	61	48
09 Feb 04	00:15:00	55	67	43	60	45
09 Feb 04	00:30:00	54	71	43	59	45
09 Feb 04	00:45:00	56	73	42	59	44
09 Feb 04	01:00:00	54	69	41	59	44
09 Feb 04	01:15:00	51	66	39	55	41
09 Feb 04	01:30:00	54	71	41	58	43
09 Feb 04	01:45:00	53	70	38	56	41
09 Feb 04	02:00:00	51	67	39	53	40
09 Feb 04	02:15:00	50	70	38	54	40
09 Feb 04	02:30:00	50	71	37	53	40
09 Feb 04	02:45:00	52	74	39	54	42
09 Feb 04	03:00:00	52	71	40	54	41
09 Feb 04	03:15:00	52	70	39	55	41
09 Feb 04	03:30:00	52	71	38	54	40
09 Feb 04	03:45:00	53	73	39	57	42
09 Feb 04	04:00:00	52	73	41	56	43
09 Feb 04	04:15:00	55	74	41	58	43
09 Feb 04	04:30:00	52	71	41	56	43
09 Feb 04	04:45:00	54	70	41	58	44
09 Feb 04	05:00:00	55	70	42	60	45
09 Feb 04	05:15:00	58	72	42	62	46
09 Feb 04	05:30:00	58	79	43	62	47
09 Feb 04	05:45:00	58	70	44	62	47
09 Feb 04	06:00:00	60	74	45	63	49
09 Feb 04	06:15:00	60	73	45	64	48
09 Feb 04	06:30:00	62	75	47	65	53
09 Feb 04	06:45:00	62	73	49	65	54
09 Feb 04	07:00:00	63	70	49	66	57
09 Feb 04	07:15:00	63	73	52	65	57
09 Feb 04	07:30:00	64	88	52	64	57
09 Feb 04	07:45:00	62	73	50	65	56
09 Feb 04	08:00:00	62	78	49	64	57
09 Feb 04	08:15:00	62	73	49	64	56
09 Feb 04	08:30:00	62	71	52	64	58
09 Feb 04	08:45:00	61	75	51	65	56
09 Feb 04	09:00:00	62	72	50	65	57
09 Feb 04	09:15:00	62	77	51	65	57
09 Feb 04	09:30:00	61	70	48	64	54
09 Feb 04	09:45:00	63	74	48	65	55
09 Feb 04	10:00:00	62	79	47	65	53
09 Feb 04	10:15:00	61	74	47	64	52

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
09 Feb 04	10:30:00	62	75	47	65	54
09 Feb 04	10:45:00	62	74	46	65	52
09 Feb 04	11:00:00	61	72	47	64	54
09 Feb 04	11:15:00	62	75	48	65	56
09 Feb 04	11:30:00	61	73	47	65	53
09 Feb 04	11:45:00	61	73	47	64	53
09 Feb 04	12:00:00	61	70	47	64	53
09 Feb 04	12:15:00	62	82	48	64	55
09 Feb 04	12:30:00	62	76	47	65	54
09 Feb 04	12:45:00	62	74	48	64	54
09 Feb 04	13:00:00	62	74	47	64	55
09 Feb 04	13:15:00	62	77	45	65	53
09 Feb 04	13:30:00	62	73	46	65	54
09 Feb 04	13:45:00	62	75	45	65	52
09 Feb 04	14:00:00	62	77	48	64	54
09 Feb 04	14:15:00	61	72	47	64	54
09 Feb 04	14:30:00	61	73	45	64	52
09 Feb 04	14:45:00	62	74	45	65	54
09 Feb 04	15:00:00	62	76	49	64	55
09 Feb 04	15:15:00	62	79	45	65	55
09 Feb 04	15:30:00	62	75	47	64	55
09 Feb 04	15:45:00	61	74	47	64	54
09 Feb 04	16:00:00	62	77	48	64	57
09 Feb 04	16:15:00	61	77	46	64	53
09 Feb 04	16:30:00	62	72	50	64	56
09 Feb 04	16:45:00	62	78	48	64	56
09 Feb 04	17:00:00	62	80	48	64	54
09 Feb 04	17:15:00	61	74	48	64	54
09 Feb 04	17:30:00	61	73	49	64	56
09 Feb 04	17:45:00	61	76	48	63	53
09 Feb 04	18:00:00	62	73	50	64	55
09 Feb 04	18:15:00	64	78	48	66	55
09 Feb 04	18:30:00	61	73	47	64	54
09 Feb 04	18:45:00	62	74	49	64	55
09 Feb 04	19:00:00	62	76	46	64	54
09 Feb 04	19:15:00	64	86	49	64	55
09 Feb 04	19:30:00	61	72	49	64	54
09 Feb 04	19:45:00	61	68	47	64	51
09 Feb 04	20:00:00	60	68	47	64	52
09 Feb 04	20:15:00	61	72	47	64	52
09 Feb 04	20:30:00	61	73	47	64	54
09 Feb 04	20:45:00	61	70	47	64	53
09 Feb 04	21:00:00	61	74	47	64	52
09 Feb 04	21:15:00	60	74	46	64	51
09 Feb 04	21:30:00	60	72	46	63	50
09 Feb 04	21:45:00	60	72	47	64	51
09 Feb 04	22:00:00	59	73	48	63	51
09 Feb 04	22:15:00	59	75	46	63	49
09 Feb 04	22:30:00	59	75	47	62	50

Date	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
09 Feb 04	22:45:00	57	67	45	61	48
09 Feb 04	23:00:00	59	77	44	62	48
09 Feb 04	23:15:00	58	68	44	62	48
09 Feb 04	23:30:00	56	67	43	61	47
09 Feb 04	23:45:00	58	67	44	62	47
10 Feb 04	00:00:00	58	75	44	62	47
10 Feb 04	00:15:00	57	69	44	61	47
10 Feb 04	00:30:00	57	75	44	61	47
10 Feb 04	00:45:00	56	69	43	61	46
10 Feb 04	01:00:00	56	67	43	61	47
10 Feb 04	01:15:00	57	69	45	62	48
10 Feb 04	01:30:00	56	70	44	60	48
10 Feb 04	01:45:00	57	71	43	61	47
10 Feb 04	02:00:00	57	71	43	61	47
10 Feb 04	02:15:00	56	77	43	60	47
10 Feb 04	02:30:00	55	69	42	59	45
10 Feb 04	02:45:00	56	71	43	60	46
10 Feb 04	03:00:00	54	66	41	59	43
10 Feb 04	03:15:00	53	68	41	58	43
10 Feb 04	03:30:00	54	69	41	59	43
10 Feb 04	03:45:00	54	74	40	59	42
10 Feb 04	04:00:00	49	66	39	50	41
10 Feb 04	04:15:00	55	71	40	59	42
10 Feb 04	04:30:00	56	74	42	60	45
10 Feb 04	04:45:00	56	72	41	60	44
10 Feb 04	05:00:00	55	68	39	59	43
10 Feb 04	05:15:00	57	69	40	61	44
10 Feb 04	05:30:00	56	68	41	61	44
10 Feb 04	05:45:00	56	70	40	61	44
10 Feb 04	06:00:00	57	70	42	61	45
10 Feb 04	06:15:00	57	71	43	62	46
10 Feb 04	06:30:00	58	70	44	62	47
10 Feb 04	06:45:00	60	79	45	63	49
10 Feb 04	07:00:00	58	69	44	63	47
10 Feb 04	07:15:00	60	78	47	64	50
10 Feb 04	07:30:00	60	79	46	64	51
10 Feb 04	07:45:00	61	71	47	64	50
10 Feb 04	08:00:00	61	72	48	65	52
10 Feb 04	08:15:00	61	72	47	65	54
10 Feb 04	08:30:00	61	70	48	64	53
10 Feb 04	08:45:00	61	73	48	64	54
10 Feb 04	09:00:00	62	74	50	65	53
10 Feb 04	09:15:00	62	73	49	64	54
10 Feb 04	09:30:00	62	78	49	65	55
10 Feb 04	09:45:00	63	71	47	65	54
10 Feb 04	10:00:00	61	71	48	64	54
10 Feb 04	10:15:00	62	72	50	65	55
10 Feb 04	10:30:00	62	74	49	64	54
10 Feb 04	10:45:00	61	72	46	64	55

Date	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				
		L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
10 Feb 04	11:00:00	61	72	50	64	55
10 Feb 04	11:15:00	62	71	49	64	57
10 Feb 04	11:30:00	62	73	50	64	56
10 Feb 04	11:45:00	62	70	48	65	55
10 Feb 04	12:00:00	68	93	51	65	55
10 Feb 04	12:15:00	62	70	50	65	57
10 Feb 04	12:30:00	62	76	51	65	57
10 Feb 04	12:45:00	61	71	48	64	55
10 Feb 04	13:00:00	62	73	47	64	55
10 Feb 04	13:15:00	62	72	48	64	55
10 Feb 04	13:30:00	62	69	50	64	57
10 Feb 04	13:45:00	62	70	52	64	57
10 Feb 04	14:00:00	61	73	48	64	55
10 Feb 04	14:15:00	63	83	49	66	58
10 Feb 04	14:30:00	62	71	50	65	57
10 Feb 04	14:45:00	63	70	50	65	59
10 Feb 04	15:00:00	62	73	50	65	56
10 Feb 04	15:15:00	62	72	51	65	57
10 Feb 04	15:30:00	62	71	50	65	57
10 Feb 04	15:45:00	63	73	47	65	57
10 Feb 04	16:00:00	62	71	49	64	58
10 Feb 04	16:15:00	62	70	51	65	56
10 Feb 04	16:30:00	63	75	50	65	57
10 Feb 04	16:45:00	62	74	49	65	55
10 Feb 04	17:00:00	62	75	49	64	57
10 Feb 04	17:15:00	62	70	49	64	56
10 Feb 04	17:30:00	62	73	51	64	56
10 Feb 04	17:45:00	62	74	50	65	55
10 Feb 04	18:00:00	63	74	51	65	57
10 Feb 04	18:15:00	63	78	50	66	58
10 Feb 04	18:30:00	62	76	51	65	57
10 Feb 04	18:45:00	62	76	49	65	55
10 Feb 04	19:00:00	62	75	50	65	56
10 Feb 04	19:15:00	62	71	50	65	56
10 Feb 04	19:30:00	63	80	51	65	57
10 Feb 04	19:45:00	62	74	51	65	56
10 Feb 04	20:00:00	62	73	50	65	55
10 Feb 04	20:15:00	62	80	48	65	54
10 Feb 04	20:30:00	63	82	50	66	56
10 Feb 04	20:45:00	63	87	49	65	55
10 Feb 04	21:00:00	61	76	47	64	53
10 Feb 04	21:15:00	61	77	47	65	54
10 Feb 04	21:30:00	62	83	46	65	51
10 Feb 04	21:45:00	61	71	47	65	53
10 Feb 04	22:00:00	59	75	46	63	51

Table C2 Phase 2 Continuous Noise Monitoring Results Location C

APPENDIX D VIBRATION MONITORING DATA¹⁰

Time	Tran	Tran	Vert	Vert	Long	Long
	PPV	Freq	PPV	Freq	PPV	Freq
	mm/s	Hz	mm/s	Hz	mm/s	Hz
13:56	0.08	37	0.05	>100	0.06	>100
13:57	0.08	>100	0.05	>100	0.06	>100
13:58	0.08	51	0.05	>100	0.06	>100
13:59	0.08	43	0.05	>100	0.06	>100
14:00	0.08	37	0.03	>100	0.06	73
14:01	0.08	39	0.05	73	0.06	>100
14:02	0.08	14	0.05	>100	0.06	23
14:03	0.08	34	0.05	>100	0.06	>100
14:04	0.08	43	0.03	>100	0.06	43
14:05	0.08	26	0.05	>100	0.06	73
14:06	0.08	43	0.08	13	0.06	73
14:07	0.11	34	0.27	43	0.11	64
14:08	0.08	6.2	0.05	>100	0.06	85
14:09	0.08	34	0.05	>100	0.06	27
14:10	0.08	43	0.05	85	0.06	21
14:11	0.08	8.5	0.05	>100	0.05	64
14:12	0.08	13	0.05	>100	0.06	37
14:13	0.08	8.1	0.05	73	0.06	30
14:14	0.08	8.8	0.05	>100	0.06	47
14:15	0.08	43	0.05	64	0.06	>100
14:16	0.08	11	0.05	>100	0.06	18
14:17	0.08	9	0.05	>100	0.06	73
14:18	0.08	14	0.05	>100	0.05	>100
14:19	0.08	57	0.05	>100	0.05	>100
14:20	0.08	4.8	0.05	>100	0.06	85
14:21	0.08	19	0.05	>100	0.06	64
14:22	0.08	8.1	0.05	>100	0.06	>100
14:23	0.11	51	0.27	13	0.11	7.9
14:24	0.10	9.1	0.24	11	0.08	8
14:25	0.08	13	0.05	85	0.06	28
14:26	0.08	12	0.05	>100	0.06	64
14:27	0.08	8.3	0.05	>100	0.06	57
14:28	0.06	64	0.05	>100	0.05	>100
14:29	0.08	43	0.05	>100	0.06	43
14:30	0.08	9	0.05	>100	0.06	>100
14:31	0.10	11	0.22	11	0.08	20
14:32	0.08	20	0.06	18	0.08	11
14:33	0.08	47	0.05	>100	0.08	16
14:34	0.08	7.8	0.05	73	0.06	>100
14:35	0.08	21	0.05	>100	0.06	85
14:36	0.08	14	0.05	>100	0.06	32
14:37	0.08	11	0.05	85	0.06	>100
14:38	0.06	85	0.05	>100	0.05	>100
14:39	0.08	34	0.05	>100	0.06	>100
14:40	0.08	47	0.03	>100	0.06	47

Table E1 Monitored Vibration Levels at Location A

¹⁰

All vibration monitoring was conducted on 22 January 2004.

Time	Tran	Tran	Vert	Vert	Long	Long
	PPV	Freq	PPV	Freq	PPV	Freq
	mm/s	Hz	mm/s	Hz	mm/s	Hz
14:45	0.10	8	0.06	14	0.06	>100
14:46	0.08	9.1	0.05	>100	0.06	>100
14:47	0.08	10	0.10	11	0.06	27
14:48	0.10	9	0.11	12	0.06	32
14:49	0.10	17	0.10	11	0.10	13
14:50	0.10	13	0.11	11	0.10	16
14:51	0.08	11	0.10	11	0.08	20
14:52	0.08	37	0.06	19	0.06	32
14:53	0.08	15	0.06	15	0.06	39
14:54	0.10	6.6	0.10	11	0.08	27
14:55	0.10	13	0.10	15	0.06	22
14:56	0.11	8.3	0.11	10	0.08	10
14:57	0.08	5.5	0.08	16	0.06	64
14:58	0.08	32	0.06	15	0.06	>100
14:59	0.10	9.5	0.10	12	0.08	18
15:00	0.08	20	0.06	43	0.06	34
15:01	0.08	85	0.06	12	0.06	37
15:02	0.10	9.7	0.10	14	0.11	13
15:03	0.08	23	0.11	11	0.08	34
15:04	0.08	10	0.11	10	0.08	12
15:05	0.08	30	0.10	10	0.06	85
15:06	0.10	9.3	0.11	12	0.08	51
15:07	0.08	14	0.08	17	0.06	34
15:08	0.08	8.4	0.11	12	0.10	18
15:09	0.08	6.9	0.10	16	0.06	28
15:10	0.08	57	0.10	11	0.08	51
15:11	0.10	10	0.10	11	0.08	20
15:12	0.08	39	0.10	11	0.08	73
15:13	0.10	8.8	0.08	13	0.06	85
15:14	0.10	9.1	0.10	11	0.06	51
15:15	0.08	10	0.08	13	0.08	30
15:16	0.08	10	0.18	9.5	0.14	11
15:17	0.10	12	0.10	12	0.08	17
15:18	0.08	39	0.11	12	0.08	11
15:19	0.10	10	0.08	13	0.06	51
15:20	0.10	11	0.08	12	0.08	27
15:21	0.10	10	0.08	16	0.08	15
15:22	0.10	9.5	0.10	12	0.08	26
15:23	0.08	14	0.06	14	0.06	85
15:24	0.10	11	0.06	37	0.06	47
15:25	0.08	27	0.05	57	0.06	>100
15:26	0.08	51	0.05	>100	0.06	43
15:27	0.08	57	0.10	12	0.06	51
15:28	0.10	9.3	0.08	15	0.08	16
15:29	0.08	51	0.08	13	0.06	>100

Table E2 Monitored Vibration Levels at Location B

Time	Tran	Tran	Vert	Vert	Long	Long
	PPV	Freq	PPV	Freq	PPV	Freq
	mm/s	Hz	mm/s	Hz	mm/s	Hz
11:47:16	0.08	24	0.06	34	0.0	>100
11:48:16	0.08	43	0.05	>100	0.1	>100
11:49:16	0.08	47	0.05	>100	0.1	>100
11:50:16	0.08	9.3	0.05	>100	0.0	>100
11:51:16	0.10	34	0.06	39	0.1	>100
11:52:16	0.08	34	0.05	>100	0.0	>100
11:53:16	0.08	>100	0.05	>100	0.0	>100
11:54:16	0.08	22	0.05	>100	0.0	51
11:55:16	0.08	13	0.05	64	0.0	73
11:56:16	0.08	9.8	0.05	>100	0.0	>100
11:57:16	0.08	14	0.05	>100	0.0	>100
11:58:16	0.19	>100	0.18	>100	0.1	>100
11:59:16	0.08	23	0.05	>100	0.0	>100
12:00:16	0.08	73	0.05	>100	0.0	>100
12:01:16	0.08	11	0.05	>100	0.0	>100
12:02:16	0.08	13	0.06	21	0.1	>100
12:03:16	0.08	51	0.05	>100	0.0	>100
12:04:16	0.08	9.8	0.05	73	0.0	>100
12:05:16	0.08	43	0.06	27	0.0	>100
12:06:16	0.06	39	0.06	20	0.0	>100
12:07:16	0.08	51	0.05	>100	0.1	>100
12:08:16	0.08	28	0.08	13	0.0	>100
12:09:16	0.08	12	0.06	57	0.1	>100
12:10:16	0.08	13	0.10	12	0.1	85
12:11:16	0.08	51	0.05	34	0.0	>100
12:12:16	0.08	12	0.06	18	0.1	>100
12:13:16	0.06	64	0.05	>100	0.0	>100
12:14:16	0.08	26	0.06	57	0.1	>100
12:15:16	0.08	26	0.06	19	0.1	73
12:16:16	0.08	10	0.05	>100	0.0	>100
12:17:16	0.08	17	0.06	26	0.0	>100
12:18:16	0.06	43	0.05	>100	0.0	>100
12:19:16	0.44	57	0.30	>100	0.3	>100
12:20:16	0.08	14	0.05	>100	0.0	>100
12:21:16	0.08	21	0.06	18	0.1	>100
12:22:16	0.08	85	0.06	19	0.1	>100
12:23:16	0.08	34	0.06	20	0.1	>100
12:24:16	0.08	47	0.08	16	0.0	>100
12:25:16	0.08	17	0.06	27	0.1	>100
12:26:16	0.08	14	0.08	16	0.0	>100

Table D3 Monitored Vibration Levels at Location C

Time	Tran	Tran	Vert	Vert	Long	Long
	PPV	Freq	PPV	Freq	PPV	Freq
	mm/s	Hz	mm/s	Hz	mm/s	Hz
10:50	0.10	>100	0.21	16	0.08	37
10:51	0.08	57	0.08	28	0.06	39
10:52	0.08	19	0.14	16	0.08	39
10:53	0.08	37	0.18	18	0.10	34
10:54	0.06	64	0.08	20	0.06	>100
10:55	0.06	>100	0.10	18	0.08	57
10:56	0.08	8.3	0.13	18	0.06	64
10:57	0.11	73	0.10	20	0.06	>100
10:58	0.08	18	0.13	17	0.06	85
10:59	0.08	15	0.19	17	0.08	32
11:00	0.08	20	0.10	17	0.06	>100
11:01	0.08	17	0.18	17	0.06	57
11:02	0.08	28	0.22	24	0.14	20
11:03	0.08	47	0.18	17	0.06	57
11:04	0.08	27	0.10	19	0.06	>100
11:05	0.08	47	0.13	37	0.06	64
11:06	0.08	18	0.18	15	0.10	21
11:07	0.08	73	0.14	19	0.11	37
11:08	0.08	>100	0.19	17	0.10	18
11:09	0.08	7.1	0.13	19	0.10	43
11:10	0.08	47	0.14	17	0.08	34
11:11	0.08	8.8	0.16	17	0.10	18
11:12	0.08	18	0.14	16	0.08	20
11:13	0.08	13	0.18	18	0.08	34
11:14	2.25	43	0.65	47	1.17	51
11:15	0.08	11	0.06	27	0.05	>100
11:16	0.10	73	0.18	16	0.10	23
11:17	0.11	>100	0.16	64	0.21	85
11:18	0.08	34	0.13	17	0.08	23
11:19	0.08	9.7	0.16	16	0.08	27
11:20	0.08	73	0.16	15	0.08	23
11:21	0.24	>100	0.13	20	0.13	>100
11:22	0.08	19	0.13	18	0.06	32
11:23	0.10	37	0.14	15	0.11	>100
11:24	0.21	>100	0.21	>100	0.22	>100
11:25	0.11	11	0.25	13	0.11	17
11:26	0.08	18	0.14	14	0.08	19
11:27	0.08	85	0.14	51	0.08	30
11:28	0.08	13	0.18	18	0.06	39
11:29	0.08	13	0.11	16	0.06	73
11:30	0.08	12	0.10	13	0.06	73
11:31	0.08	23	0.16	17	0.10	24
11:32	0.08	20	0.16	13	0.10	26
11:33	0.08	18	0.14	16	0.06	73
11:34	0.06	73	0.11	17	0.06	85
11:35	0.06	20	0.05	43	0.05	>100
11:36	0.10	64	0.22	16	0.11	28

Table D4 Monitored Vibration Levels at Location i

Time	Tran	Tran	Vert	Vert	Long	Long
	PPV	Freq	PPV	Freq	PPV	Freq
	mm/s	Hz	mm/s	Hz	mm/s	Hz
12:49	0.08	85	0.14	9.7	0.06	85
12:50	0.08	5.8	0.08	15	0.06	64
12:51	0.08	57	0.05	73	0.06	>100
12:52	0.08	11	0.05	73	0.05	>100
12:53	0.10	11	0.11	10	0.06	57
12:54	0.08	57	0.08	15	0.05	>100
12:55	0.08	11	0.11	12	0.06	30
12:56	0.08	26	0.10	14	0.05	>100
12:57	0.08	64	0.05	47	0.05	>100
12:58	0.10	7.3	0.10	14	0.06	73
12:59	0.08	16	0.06	15	0.06	73
13:00	0.08	>100	0.05	47	0.06	47
13:01	0.08	7.6	0.05	73	0.06	57
13:02	0.08	13	0.06	19	0.06	51
13:03	0.08	20	0.08	13	0.06	85
13:04	0.08	13	0.08	16	0.05	>100
13:05	0.08	37	0.11	12	0.06	47
13:06	0.10	9.3	0.14	9.3	0.06	>100
13:07	0.08	>100	0.05	>100	0.06	85
13:08	0.08	11	0.05	>100	0.05	>100
13:09	0.08	37	0.05	>100	0.06	43
13:10	0.08	26	0.11	15	0.06	23
13:11	0.08	6.7	0.11	12	0.05	>100
13:12	0.08	8.5	0.05	>100	0.05	>100
13:13	0.08	30	0.08	14	0.06	85
13:14	0.08	32	0.05	>100	0.06	>100
13:15	0.08	10	0.05	>100	0.05	>100
13:16	0.08	32	0.05	>100	0.05	39
13:17	0.08	24	0.05	>100	0.05	85
13:18	0.08	51	0.05	>100	0.05	>100
13:19	0.08	16	0.05	37	0.05	>100
13:20	0.08	28	0.11	11	0.06	51
13:21	0.13	7.5	0.25	8.8	0.06	85
13:22	0.08	10	0.08	16	0.05	>100
13:23	0.08	8.1	0.11	11	0.06	>100
13:24	0.08	5.6	0.18	11	0.06	21
13:25	0.10	11	0.10	12	0.06	51
13:26	0.08	14	0.14	12	0.05	>100
13:27	0.08	21	0.06	26	0.05	>100
13:28	0.08	8.8	0.08	12	0.06	64
13:29	0.08	8	0.10	9.8	0.06	>100
13:30	0.08	8.8	0.11	11	0.06	>100
13:31	0.08	20	0.06	47	0.05	64
13:32	0.75	>100	0.19	>100	0.22	>100
13:33	0.08	18	0.16	12	0.06	>100
13:34	0.08	9	0.05	43	0.06	47

Table D5 Monitored Vibration Levels at Location ii

Time	Tran	Tran	Vert	Vert	Long	Long
	PPV	Freq	PPV	Freq	PPV	Freq
	mm/s	Hz	mm/s	Hz	mm/s	Hz
15:34	0.43	85	0.27	11	0.11	28
15:35	0.10	12	0.16	9.1	0.08	16
15:36	0.08	7.6	0.11	12	0.06	32
15:37	0.16	11	0.24	11	0.10	26
15:38	0.08	11	0.10	14	0.06	43
15:39	0.11	9.8	0.18	11	0.10	17
15:40	0.10	5.6	0.16	9.7	0.08	18
15:41	0.10	12	0.27	11	0.08	17
15:42	0.16	12	0.18	10	0.08	28
15:43	0.11	43	0.21	11	0.08	20
15:44	0.11	11	0.19	14	0.06	27
15:45	0.11	9	0.22	13	0.08	73
15:46	0.08	20	0.14	11	0.06	47
15:47	0.10	12	0.13	11	0.06	>100
15:48	0.14	11	0.22	12	0.08	22
15:49	0.14	10	0.30	11	0.08	17
15:50	0.10	9.1	0.14	9.8	0.06	30
15:51	0.10	7.2	0.18	11	0.06	47
15:52	0.10	15	0.21	11	0.08	30
15:53	0.14	15	0.48	11	0.10	15
15:54	0.10	8.5	0.14	9	0.06	51
15:55	0.10	19	0.16	10	0.06	73
15:56	0.10	5.2	0.25	9.1	0.06	28
15:57	0.16	10	0.24	11	0.06	85
15:58	0.13	7.9	0.16	11	0.08	24
15:59	0.10	9.3	0.16	11	0.06	43
16:00	0.10	8.4	0.18	8.7	0.10	51
16:01	0.11	9.5	0.21	9.8	0.08	20
16:02	0.10	4.9	0.18	8.8	0.08	14
16:03	0.11	9.8	0.30	10	0.08	43
16:04	0.13	11	0.16	9	0.08	32
16:05	0.10	13	0.21	10	0.10	20
16:06	0.11	11	0.19	17	0.08	20
16:07	0.64	85	0.19	85	0.06	85
16:08	0.11	10	0.18	11	0.08	51
16:09	0.13	15	0.22	15	0.10	16
16:10	0.10	8.3	0.18	12	0.06	47
16:11	0.08	19	0.19	9.8	0.06	37
16:12	0.11	12	0.18	14	0.08	43
16:13	0.08	6.3	0.11	13	0.06	23
16:14	0.10	28	0.21	9.8	0.08	64
16:15	0.13	11	0.19	11	0.06	>100
16:16	0.08	19	0.10	11	0.06	>100
16:17	0.10	12	0.14	16	0.06	43
16:18	0.10	20	0.16	9.7	0.06	39
16:19	0.10	9.3	0.16	11	0.06	26
16:20	0.11	8.8	0.19	10	0.06	43
16:21	0.11	9	0.19	9.3	0.08	39
16:22	0.10	8.5	0.16	9.3	0.08	12

Table D6 Monitored Vibration Levels at Location iii

APPENDIX E NOISE SURVEY DATABASE REVIEW

E.1 INTRODUCTION

The following is a review of the AWN database for noise surveys completed within the broad environs of the proposed development. Figure E1 to the end of this section of the document highlights the approximate locations of the survey work discussed in this section.

E.2 SURVEY 1 – TARA STREET

An environmental noise survey was conducted in the vicinity of Tara Street, Dublin 2 on 8 and 9 January 2001.

Noise levels were measured at the following locations:

Location 1A is on the pavement roughly half way along Poolbeg Street East.

During the daytime, the dominant sources of noise were road traffic along Tara Street, with occasional vehicles along Poolbeg Street. During the first two daytime periods there was also significant contribution of noise from the building site to the rear of the existing Coopers & Lybrand building. The main source of noise from the building site was the unloading of concrete from tankers and the concrete pumping machine. Noise levels were 71dB L_{Aeq} and 73 to 74dB L_{A10} with the construction noise and 68dB L_{Aeq} and 70dB L_{A10} without construction noise. This is considered typical for a city centre environment.

During the night-time, the dominant source of noise was road traffic on Tara Street, there were no vehicles on Poolbeg Street East. Also notable was an item of ventilation plant either associated with the Tara Street Station or the O'Reilly pub. There was generally no noise from the construction site, although for a period there was powerfloating of a concrete floor and this measurement location was excluded in that rotation of the positions. Noise levels were 58 to 60dB L_{Aeq} and 61 to 64dB L_{A10} . These noise levels are typical of a city centre location.

Location 1B is midway along the façade of the existing CIE building on Tara Street between Poolbeg Street and George's Quay.

During both the daytime and night-time periods, the dominant source of noise was road traffic on Tara Street. Daytime noise levels ranged from 75 to 76dB L_{Aeq} and 77 to 78dB L_{A10} , which is typical for the roadside of a busy city street. Night-time noise levels ranged from 62 to 68dB L_{Aeq} and 64 to 72dB L_{A10} , which is typical for the roadside of a busy city street with the fluctuating flows that occur during the night.

Location 1C is at the junction of George's Quay and Luke Street.

During both the daytime and night-time periods, the dominant source of noise was road traffic on George's Quay. Daytime noise levels ranged from 75 to 76dB L_{Aeq} and 76 to 78dB L_{A10} , which is typical for the roadside of a busy city street. Night-time noise levels ranged from 62 to 67dB L_{Aeq} and 64 to 71dB L_{A10} .

E.3 SURVEY 2 – IRISH FINANCIAL SERVICES CENTRE

An environmental noise survey was conducted on 1 May 2002 in the location of Exchange Place, IFSC, Dublin 1.

Noise measurements were carried out at four locations around Exchange Place in the IFSC.

Noise levels in the area where measured during periods when no construction work (on the site of interest) was taking place. Noise levels at the various locations were in the range of 59 to 71dB L_{Aeq} and 56 to 68dB L_{A90} .

The dominant noise source was traffic movements on adjacent roads. It should be noted that other sources of construction noise (from sites not under consideration here) were audible at times.

An initial baseline noise survey conducted in the vicinity of this site showed that daytime monitoring results at this location were dominated by traffic movements in the local area. This was illustrated by the comparison of the L_{A10} to the L_{Aeq} values. L_{A10} levels are typically 3dB higher than then the L_{Aeq} values which is a strong indication of the presence of traffic noise. The average L_{Aeq} and L_{A90} levels measured during the continuous noise monitoring period were 62dB and 55dB respectively.

Again baseline survey work showed that night-time monitoring results at this location were dominated by traffic movements in the local area up to the early hours of the morning periods. This is illustrated by the comparison of the L_{A10} to the L_{Aeq} values. L_{A10} levels are typically 3dB higher than then the L_{Aeq} values which is a strong indication of the presence of traffic noise. The average L_{Aeq} and L_{A90} levels measured during the continuous noise monitoring period were 55dB and 52dB respectively.

E.4 SURVEY 3 – CHARLOTTE QUAY

An environmental noise survey was conducted on 27 May 2002, whilst construction site was active.

Noise levels were measured at the following locations:

Location 3A is in line with the façade of the apartment dwellings at Charlotte Quay and facing the main entrance to the construction site. This location provides a measure of the noise climate at the nearest dwelling to the site entrance.

During the survey, the dominant sources of noise were traffic entering and leaving the Charlotte Quay construction site, noise associated with a nearby construction site at Shelborne Park and traffic along the Ringsend Road. Noise levels ranged from 69dB L_{Aeq} to 72dB L_{Aeq} with background levels in the range 59dB L_{A90} to 67dB L_{A90} .

Location 3B is further north along the apartment complex from position 1 During the survey, the dominant sources of noise were traffic entering and leaving the construction site, traffic using the docks facility and traffic along the Ringsend Road. Noise levels ranged from 64dB L_{Aeq} to 76dB L_{Aeq} with background levels in the range 57dB L_{A90} to 62dB L_{A90} .

Location 3C is approximately 1m from the façade of a residential dwelling located along Ringsend Road. This location will provide a measure of the noise climate at the nearest noise-sensitive receptor to the south of the site.

During the survey, the dominant sources of noise were traffic along the Ringsend Road and noise associated with a construction activity at Shelbourne Park. Noise levels ranged from 64dB L_{Aeq} to 76dB L_{Aeq} with background levels in the range 57dB L_{A90} to 62dB L_{A90} .

E.5 SURVEY 4 – HANOVER QUAY

An environmental noise survey was conducted on 6th June 2002, in the vicinity of Units 1 and 5, Hanover Quay, Dublin 1.

Noise levels were measured at the following locations:

Location 4A North east of Unit 1. This position was chosen to be representative of the noise level experienced by the portion of Unit 2 nearest to the demolition at Unit 1. Noise levels were in the range of 67dB L_{Aeq} to 71dB L_{Aeq} with background levels in the range 56dB L_{A90} to 60dB L_{A90} .

Location 4B North west of Unit 5. This position is representative of the noise environment where Unit 5 joins Unit 4 and provides an indication of the noise environment currently experienced by the occupants of Unit 4. Noise levels were in the range of 69dB L_{Aeq} to 74dB L_{Aeq} with background levels in the range 56dB L_{A90} to 60dB L_{A90} .

The noise measurements at both locations show that the noise levels during demolition are relatively similar to the existing noise levels in the area. The existing noise environment is dominated by a continuous flow of concrete vehicles and regular traffic along the Quay. Furthermore there was a significant noise contribution from production plant within the Kilsaran Concrete compound. Mobile mechanical plant was also audible from the remediation works at the west of Hanover Quay.

E.6 SURVEY 5 – LOWER BAGGOT STREET

An environmental noise survey was conducted on 28th August 2002.

Noise levels were measured at the following locations:

Location 5A This location is at the façade of the office space located along Baggot Close. Baggot Close is an alleyway that leads to the existing entrance to the entertainment venue in the existing Baggot Street premises. The daytime noise environment at this location was dominated by traffic movements along Baggot Street Lower. Other sources of noise noted during the measurement period included the movement of cars in and out of the nearby car park and pedestrian activity on local streets. Noise levels were in the range of 62 to 64dB L_{Aeq} and 51 to 53dB L_{A95} .

Night-time noise levels at this location were again dominated by traffic movements along Baggot Street Lower. During lulls in traffic other sources of noise noted include noise from a public house on the

opposite side of Baggot Street and further down the street. Noise levels were in the range of 56 to 61dB L_{Aeq} and 43 to 51dB L_{A95} .

Location 5B This location is on Baggot Street Lower adjacent to 'The Baggot Mews' newsagent. The location is directly opposite the existing Baggot Inn site. The daytime noise environment at this location was dominated by traffic movements along Baggot Street Lower. Other sources of noise noted during the measurement period during lulls in traffic noise included pedestrian activities and cars moving off from parking spaces on the near side of the street. Noise levels were in the range of 72 to 73dB L_{Aeq} and 58 to 62dB L_{A95} .

Night-time noise levels at this location were again dominated by traffic movements on Baggot Street Lower. Noise levels were in the range of 68 to 69dB L_{Aeq} and 48 to 57dB L_{A95} .

Location 5C Along Rogers Lane, opposite the proposed façade of the redeveloped Baggot Inn and in front of existing apartment façade. The daytime noise environment at this location was dominated by traffic movements along Baggot Street Lower. Other sources of noise noted during the measurement period included construction works, local traffic movements along the lane itself and pedestrian activity on local streets. Noise levels were in the range of 62 to 64dB L_{Aeq} and 51 to 53dB L_{A95} .

Night-time noise levels at this location were again dominated by traffic movements along Baggot Street Lower. During lulls in traffic other sources of noise noted included noise from a public house on the opposite side of Baggot Street and further down the street. Noise levels were in the range of 56 to 61dB L_{Aeq} and 44 to 49dB L_{A95} .

E.7 SURVEY 6 – LOWER ORMOND QUAY

An environmental noise survey was conducted on 19th December 2001.

Noise levels were measured at the following locations:

Location 6A At the eastern boundary of the site. The dominant noise source at this location during the survey period was player's voices and the sound of the ball hitting the timber panels around the perimeter of the pitches. The average noise level over each measurement period were in the range 58 to 65dB L_{Aeq} .

Location 6B At the western boundary of the site. Once again, player's voices and the ball hitting the perimeter hoarding were the dominant sources of noise. The average noise levels were in the range 63 to 67dB L_{Aeq} , however, when corrected to the rear of the adjacent houses, the range of levels become 59 to 63dB L_{Aeq} .

E.8 SURVEY 7 – PIGEON HOUSE ROAD

An environmental noise survey was conducted on 4th December 2001.

Noise levels were measured at the following locations:

Location 7A the front of No. 71 Pigeon House Road.

Noise build up in the area was dominated by local traffic movements and plant operating from the Marine Terminals Ltd. Noise levels were in the range of 57 to 68dB L_{Aeq} and 52 to 60dB L_{A90}

E.9 SURVEY 8 – BARROW ST

Environmental noise measurements were conducted over the course of two survey periods 12th February 2003 and 13th February 2003/2003.

Noise levels were measured at the following locations:

Location 8A is at the side of Barrow Street by the entrance to the Grand Canal Dock Station.

During the daytime, the dominant sources of noise were local road traffic, construction noise and trains on the DART rail line. Noise levels were in the range 64 to 68dB L_{Aeq} and 67 to 68dB L_{A10} .

During the night-time the amount of road traffic was less than during the day, there was no construction and there were no trains after midnight. Noise levels were in the range 54 to 58dB L_{Aeq} , with background noise levels as low as 37dB L_{A90} .

Both the daytime and night-time measurements are typical of the noise climate in an urban city environment.

Location 8B is at the side of the apartment block to the south side of the DART rail line. This is a similar from Barrow Street as the proposed residential units, but the south side of the DART rail line to be less affected by daytime construction noise.

During the daytime, the dominant sources of noise were local road traffic and trains on the DART rail line. Noise levels were in the range 59 to 63dB L_{Aeq} and 63 to 67dB L_{A10} .

During the night-time the amount of road traffic was less than during the day, there was no 59dB L_{Aeq} , with background noise levels as low as 40dB L_{A90} .

Both the daytime and night-time measurements are typical of the noise climate in an urban city environment.

Location 8C is at the corner of South Dock Street and Gerald Street. This provides a measure of the noise climate in this area of Dublin away from busier roads (including Barrow Street).

During the daytime, the dominant sources of noise were local road traffic, construction noise and trains on the DART rail line. Noise levels were in the range 53 to 54dB L_{Aeq} and 57dB L_{A10} .

During the night-time the amount of road traffic was less than during the day, there was no construction and there were no trains after midnight. Noise levels were in the range 41 to 49dB L_{Aeq} , with background noise levels as low as 37dB L_{A90} .

Both the daytime and night-time measurements are typical of the noise climate in an urban city environment.

E.10 SURVEY 9 – DUBLIN BAY WWTP

Environmental noise measurements were conducted on 26th March 2003.

Noise levels were measured at the following locations:

Position 9A This position was selected to provide a reference level adjacent to both the blowers and pumps.

With all plant items turned off, the dominate source of noise at this location was water noise. Daytime noise levels were of the order of 56dB L_{Aeq} and 53dB L_{A90} .

Position 9B This position is located at the designated monitoring point on the southern site boundary.

With all plant items turned off, the main sources of noise at this location was ESB noise, with some water noise. Daytime noise levels were of the order of 53B L_{Aeq} and 52dB L_{A90} .

E.11 SURVEY 10 – SPENSER DOCK

Environmental noise measurements were conducted on 29th June 2003.

Noise levels were measured at the following locations:

Position 10A Located 1m from the boundary wall opposite No.1 Mayor Street Upper. This residence is the closest noise sensitive private property to the Spenser Dock site. Particular consideration will be given here to construction works associated with Sections M & N of the Spenser Dock site.

Noise levels during these periods were dominated by traffic movements on New Wapping Street and distant movements on North Wall Quay. Noise levels were in the range of 55 to 59dB L_{Aeq} and 39 to 42dB L_{A90} .

Noise measurements during the period of 08:00 to 11:00 hours at this location were dominated by industrial noise associated with a unit on a

saw mill/timber yard site located on New Wapping Street. Ambient and background noise levels were dominated by this source. Noise levels were in the range of 64 to 66dB L_{Aeq} and 62 to 64dB L_{A90} .

Position 10B Located approximately 1m from the façade of an Apartment complex on Guild Street to the west of the Spenser Dock site. The complex is a six storey development with a significant frontage onto Guild Street overlooking the development site.

Noise levels during these periods were dominated by traffic movements along Guild Street. Noise associated with a party in one of the apartments was audible at times during these survey periods. Noise levels were in the range of 66 to 74dB L_{Aeq} and 43 to 52dB L_{A90} .

Position 10C Located approximately 1m from the façade of a private residence on New Wapping Street to the east of the development site. This location is indicative of noise levels experienced at No.1 to 14 New Wapping Street.

Noise levels during these periods were dominated by traffic movements along New Wapping Street. Noise associated with a plant item from the Wapping Street saw mill/timber yard influenced both ambient and background noise levels during these periods. Noise levels were in the range of 71 to 73dB L_{Aeq} and 60 to 61dB L_{A90} .

E.12 SURVEY 11 – EAST WALL ROAD

Environmental noise measurements were conducted on 25th & 26th February 2003.

Noise levels were measured at the following locations:

Location 11A This location is just inside the open fencing of The Point Depot close to the main gate on East Wall Road. The location is approximately 6 metres from the roadside.

The primary contributor to noise build-up at this location was road traffic on East Wall Road. Typical noise levels were of the order of 74dB L_{Aeq} , 66 to 67dB L_{A90} with an associated derived value of 76dB $L_{A10(18hour)}$.

Location 11B This location is at the eastern end of Sherrif Street about 4 metres from the traffic on Sherrif Street and approximately 34 metres from the traffic on East Wall Road.

The primary contributor to noise build-up at this location was road traffic on Sherrif Street and East Wall Road. Typical noise levels were in the range 69 to 71dB L_{Aeq} , 63 to 65dB L_{A90} with an associated derived value of 72dB $L_{A10(18hour)}$.

Location 11C This location is at the side of the East Wall Road at 1 metre from a building façade and around 3 metres from traffic on East Wall Road.

The primary contributor to noise build-up at this location was road traffic on East Wall Road. Typical noise levels were in the range 78 to 79dB L_{Aeq} , 70 to 71dB L_{A90} with an associated derived value of 81dB $L_{A10(18hour)}$.

Location 11D This location is on the north side of North Wall Quay at 1 metre from the façade of Maritime House (Dublin Maritime Limited) and approximately 5 metres from moving traffic on North Wall Quay.

The primary contributor to noise build-up at this location was road traffic on North Wall Quay. Typical noise levels were in the range 75 to 76dB L_{Aeq} , 62 to 64dB L_{A90} with an associated derived value of 78dB $L_{A10(18hour)}$.

Location 11E This location is on the south side of North Wall Quay at the quayside of the River Liffey. The flowing traffic on North Wall Quay is around 12 metres away. The location is just west of The Point Depot.

The primary contributor to noise build-up at this location was road traffic on North Wall Quay. Typical noise levels were in the range 68 to 70dB L_{Aeq} , 62 to 63dB L_{A90} with an associated derived value of 71dB $L_{A10(18hour)}$.

Location 11F This location is at the entrance to Fisherman's Wharf, a residential development on the south side of York Road, which is to the south side of the River Liffey close to the Eastlink Bridge access road.

The primary contributor to noise build-up at this location was road traffic on the East Link Bridge access road and York Road. Typical noise levels were in the range 60 to 62dB L_{Aeq} , 55 to 56dB L_{A90} with an associated derived value of 62dB $L_{A10(18hour)}$.

Location 11G This location is at the side of East Wall Road (outside No 188) and approximately 4 metres from the nearside flow of traffic.

The primary contributor to noise build-up at this location was road traffic on East Wall Road. During the first period the traffic was stationary for significant periods of time and this appears to have reduced the levels of noise slightly. Typical noise levels were in the range 75 to 77dB L_{Aeq} , 63 to 66dB L_{A90} with an associated derived value of 78dB $L_{A10(18hour)}$.

Location 11H This location is at the side of East Wall Road in front of a metal open gate to the vacant side at the junction of East Wall Road and Church Road (and approximately opposite an Esso Service Station). The location is approximately 5 metres from the nearside flow of traffic.

The primary contributor to noise build-up at this location was road traffic on East Wall Road. During the first period the traffic was stationary for significant periods of time and this appears to have increased the L_{A90} levels slightly. Typical noise levels were in the range 74 to 76dB L_{Aeq} , 64 to 69dB L_{A90} with an associated derived value of 77dB $L_{A10(18hour)}$.

Location 11I This location is on the west side pavement of Merchants Road and approximately 21 metres from the nearside flow of traffic on East Wall Road.

The primary contributor to noise build-up at this location was road traffic on East Wall Road. Typical noise levels were in the range 67 to 69dB L_{Aeq} , 56 to 57dB L_{A90} with an associated derived value of 70dB $L_{A10(18hour)}$. These noise levels are typical of what would be expected in the type of environment under consideration.

Location 11J This location is at the side of East Road (outside No 32) and near the junction of East Road and Ravensdale Road. The location is approximately 3 metres from the nearside flow of traffic.

The primary contributor to noise build-up at this location was road traffic on East Road. Typical noise levels were in the range 69 to 71dB L_{Aeq} , 57 to 60dB L_{A90} with an associated derived value of 71dB $L_{A10(18hour)}$.

Location 11K This location is on the east side pavement at the northern end of Castleforbes Street (which has a cobbled surface). The location is approximately 30 metres from Sherrif Street.

The primary contributor to noise build-up at this location was road traffic on Sherrif Street along with occasional passing vehicles on Castleforbes Street. There was also some noise from the vehicle repair workshop across Castleforbes Road. Typical noise levels were in the range 65 to 66dB L_{Aeq} , 55 to 59dB L_{A90} with an associated derived value of 67dB $L_{A10(18hour)}$.

Location 11L This location is on the west side pavement at the southern end of Castleforbes Street (which has a cobbled surface). The location is approximately 72 metres from North Wall Quay.

The primary contributor to noise build-up at this location was road traffic on North Wall Quay along with occasional passing vehicles on Castleforbes Road. There was also some noise from fork lift trucks and unloading lorries associated with nearby tile store. Typical noise levels were in the range 68 to 70dB L_{Aeq} , 53 to 54dB L_{A90} with an associated derived value of 70dB $L_{A10(18hour)}$.

**FIGURE E1
DATABASE SURVEY LOCATIONS**

