



**AQUIND Limited**

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## **AQUIND INTERCONNECTOR**

### **Environmental Statement – Volume 3 – Appendix 24.6 Noise Survey Equipment, Meteorological Conditions and Noise Survey Results**

The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations  
2009 – Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

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**AQUIND Limited**

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# **AQUIND INTERCONNECTOR**

Environmental Statement – Volume 3 –  
Appendix 24.6 Noise Survey Equipment,  
Meteorological Conditions and Noise Survey  
Results

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## DOCUMENT

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# 1. NOISE SURVEY EQUIPMENT

**Table 1 - Noise survey equipment**

	<b>WSP ID</b>	<b>Sound Level Meter</b>	<b>Type</b>	<b>Serial Number</b>
<b>Measurement Position 1</b>	Solo 20	Sound Level Meter	01dB-METRAVIB Solo Master	65811
		Pre-amplifier	01dB-Stell PRE 21 S	16485
		Microphone	Microtech Gefell GmbH MCE212	166394
		Calibrator	01dB-Metravib Cal 21	34634224
<b>Measurement Position 2</b>	Solo 12	Sound Level Meter	01dB-METRAVIB Solo Master	65242
		Pre-amplifier	01dB-Stell PRE 21 S	16781
		Microphone	Microtech Gefell GmbH MCE212	153334
		Calibrator	01dB-Stell Cal 21	35242306
<b>Measurement Position 3</b>	Solo 17	Sound Level Meter	01dB-METRAVIB Solo Master	65773
		Pre-amplifier	01dB-Stell PRE 21 S	16554
		Microphone	Microtech Gefell GmbH MCE212	181879
		Calibrator	01dB-Metravib Cal 21	34134165
<b>Measurement Position 4</b>	Solo 16	Sound Level Meter	01dB-METRAVIB Solo Master	65704
		Pre-amplifier	01dB-Stell PRE 21 S	16925
		Microphone	Microtech Gefell GmbH MCE212	153382
		Calibrator	01dB-Metravib Cal 21	34134167
<b>Measurement Position 5</b>	Solo 22	Sound Level Meter	01dB-METRAVIB Blue Solo 'Datalogging Integrating Sound Level Meter'	61331
		Pre-amplifier	01dB-METRAVIB PRE 21 S	14575

		Microphone	01dB Mereavib MCE 212 Microphone	92344
		Calibrator	Norsonic type 1251 Sound Calibrator	31460
<b>Measurement Position 6</b>	Duo 2	Sound Level Meter	01dB-Stell Duo 'Datalogging Integrating Sound Level Meter'	10618
		Pre-amplifier	01dB-Stell PRE 21 S Preamplifier	10627
		Microphone	G.R.A.S Type 40CD Condenser Microphone	162008
		Calibrator	01dB Cal 21	34924047

## 2. METEOROLOGICAL CONDITIONS

2.1.1.1. Meteorological conditions for the unattended noise survey undertaken in 2017 are presented in the tables below.

2.1.1.2. This data was obtained from online sources.

**Table 2 - Meteorological conditions - 28 June 2017**

Time	Temperature	Humidity	Wind	Wind Speed	Precipitation	Condition
<b>5:50 AM</b>	59 F	88 %	NNE	3 mph	0.0 in	Light Rain
<b>6:20 AM</b>	57 F	94 %	NNE	5 mph	0.0 in	Light Rain
<b>6:50 AM</b>	57 F	94 %	NNE	6 mph	0.0 in	Light Rain
<b>7:20 AM</b>	57 F	94 %	NNE	6 mph	0.0 in	Light Rain
<b>7:50 AM</b>	57 F	94 %	NE	5 mph	0.0 in	Light Rain
<b>8:20 AM</b>	59 F	88 %	VAR	2 mph	0.0 in	Light Rain
<b>8:50 AM</b>	59 F	88 %	VAR	3 mph	0.0 in	Light Rain
<b>9:20 AM</b>	59 F	94 %	VAR	3 mph	0.0 in	Light Rain
<b>9:50 AM</b>	59 F	88 %	VAR	2 mph	0.0 in	Light Rain
<b>10:20 AM</b>	59 F	94 %	VAR	3 mph	0.0 in	Light Rain
<b>10:50 AM</b>	59 F	94 %	VAR	3 mph	0.0 in	Light Rain
<b>11:20 AM</b>	59 F	94 %	VAR	1 mph	0.0 in	Light Rain
<b>11:50 AM</b>	59 F	94 %	VAR	2 mph	0.0 in	Light Rain
<b>12:20 PM</b>	61 F	88 %	VAR	1 mph	0.0 in	Light Rain
<b>12:50 PM</b>	61 F	88 %	VAR	3 mph	0.0 in	Light Rain
<b>1:20 PM</b>	61 F	88 %	NNE	2 mph	0.0 in	Light Rain
<b>1:50 PM</b>	61 F	88 %	VAR	2 mph	0.0 in	Showers in the Vicinity
<b>2:20 PM</b>	61 F	88 %	VAR	1 mph	0.0 in	Showers in the Vicinity



Time	Temperature	Humidity	Wind	Wind Speed	Precipitation	Condition
<b>2:50 PM</b>	61 F	94 %	VAR	2 mph	0.0 in	Showers in the Vicinity
<b>3:20 PM</b>	61 F	82 %	NNE	9 mph	0.0 in	Showers in the Vicinity
<b>3:50 PM</b>	61 F	82 %	NNE	8 mph	0.0 in	Showers in the Vicinity
<b>4:20 PM</b>	61 F	82 %	NNE	9 mph	0.0 in	Showers in the Vicinity
<b>4:50 PM</b>	61 F	82 %	NNE	10 mph	0.0 in	Showers in the Vicinity
<b>5:20 PM</b>	59 F	82 %	NNE	10 mph	0.0 in	Showers in the Vicinity
<b>5:50 PM</b>	59 F	82 %	NNE	8 mph	0.0 in	Showers in the Vicinity
<b>6:20 PM</b>	59 F	82 %	NNE	7 mph	0.0 in	Showers in the Vicinity
<b>6:50 PM</b>	57 F	88 %	NNE	7 mph	0.0 in	Light Rain
<b>7:20 PM</b>	57 F	88 %	NE	5 mph	0.0 in	Partly Cloudy
<b>7:50 PM</b>	57 F	88 %	NNE	7 mph	0.0 in	Partly Cloudy
<b>8:20 PM</b>	57 F	88 %	NNE	6 mph	0.0 in	Partly Cloudy
<b>8:50 PM</b>	55 F	88 %	NNE	7 mph	0.0 in	Mostly Cloudy
<b>9:20 PM</b>	55 F	88 %	NNE	6 mph	0.0 in	Mostly Cloudy
<b>9:50 PM</b>	55 F	88 %	NNE	7 mph	0.0 in	Mostly Cloudy
<b>10:20 PM</b>	55 F	88 %	NNE	8 mph	0.0 in	Partly Cloudy
<b>10:50 PM</b>	55 F	82 %	NNE	5 mph	0.0 in	Partly Cloudy

**Table 3 - Meteorological conditions - 29 June 2017**

<b>Time</b>	<b>Temperature</b>	<b>Humidity</b>	<b>Wind</b>	<b>Wind Speed</b>	<b>Precipitation</b>	<b>Condition</b>
<b>5:50 AM</b>	52 F	94 %	WNW	2 mph	0.0 in	Partly Cloudy
<b>6:20 AM</b>	52 F	88 %	VAR	3 mph	0.0 in	Partly Cloudy
<b>6:50 AM</b>	52 F	94 %	VAR	3 mph	0.0 in	Partly Cloudy
<b>7:20 AM</b>	52 F	94 %	VAR	3 mph	0.0 in	Partly Cloudy
<b>7:50 AM</b>	52 F	94 %	NW	5 mph	0.0 in	Partly Cloudy
<b>8:20 AM</b>	54 F	88 %	VAR	3 mph	0.0 in	Partly Cloudy
<b>8:50 AM</b>	54 F	88 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>9:20 AM</b>	54 F	82 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>9:50 AM</b>	54 F	82 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>10:20 AM</b>	55 F	82 %	W	5 mph	0.0 in	Mostly Cloudy
<b>10:50 AM</b>	57 F	77 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>11:20 AM</b>	57 F	77 %	VAR	2 mph	0.0 in	Mostly Cloudy
<b>11:50 AM</b>	57 F	72 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>12:20 PM</b>	57 F	77 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>12:50 PM</b>	59 F	72 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>1:20 PM</b>	57 F	77 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>1:50 PM</b>	59 F	72 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>2:20 PM</b>	59 F	72 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>2:50 PM</b>	59 F	77 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>3:20 PM</b>	59 F	77 %	S	5 mph	0.0 in	Mostly Cloudy
<b>3:50 PM</b>	59 F	77 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>4:20 PM</b>	59 F	77 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>4:50 PM</b>	59 F	72 %	CALM	0 mph	0.0 in	Mostly Cloudy
<b>5:20 PM</b>	57 F	82 %	NW	5 mph	0.0 in	Light Rain

Time	Temperature	Humidity	Wind	Wind Speed	Precipitation	Condition
5:50 PM	57 F	77 %	VAR	3 mph	0.0 in	Light Rain
6:20 PM	57 F	82 %	VAR	1 mph	0.0 in	Light Rain
6:50 PM	57 F	88 %	CALM	0 mph	0.0 in	Mostly Cloudy
7:20 PM	57 F	88 %	CALM	0 mph	0.0 in	Mostly Cloudy
7:50 PM	57 F	88 %	SE	1 mph	0.0 in	Mostly Cloudy
8:20 PM	57 F	88 %	ESE	1 mph	0.0 in	Mostly Cloudy
8:50 PM	57 F	88 %	ESE	1 mph	0.0 in	Mostly Cloudy
9:20 PM	57 F	88 %	ESE	1 mph	0.0 in	Mostly Cloudy
9:50 PM	55 F	94 %	CALM	0 mph	0.0 in	Mostly Cloudy
10:50 PM	55 F	94 %	CALM	0 mph	0.0 in	Mostly Cloudy

**Table 4 - Meteorological conditions - 30 June 2017**

Time	Temperature	Humidity	Wind	Wind Speed	Precipitation	Condition
5:50 AM	55 F	82 %	NNW	1 mph	0.0 in	Mostly Cloudy
6:20 AM	55 F	88 %	NNW	6 mph	0.0 in	Mostly Cloudy
6:50 AM	55 F	88 %	N	5 mph	0.0 in	Mostly Cloudy
7:20 AM	55 F	88 %	NNW	5 mph	0.0 in	Mostly Cloudy
7:50 AM	57 F	82 %	NNW	6 mph	0.0 in	Mostly Cloudy
8:20 AM	59 F	72 %	N	5 mph	0.0 in	Mostly Cloudy
8:50 AM	57 F	82 %	VAR	3 mph	0.0 in	Mostly Cloudy
9:20 AM	59 F	72 %	VAR	1 mph	0.0 in	Mostly Cloudy
9:50 AM	61 F	68 %	VAR	1 mph	0.0 in	Mostly Cloudy
10:20 AM	59 F	77 %	NW	5 mph	0.0 in	Mostly Cloudy

Time	Temperature	Humidity	Wind	Wind Speed	Precipitation	Condition
<b>10:50 AM</b>	61 F	68 %	VAR	2 mph	0.0 in	Mostly Cloudy
<b>11:20 AM</b>	61 F	68 %	VAR	2 mph	0.0 in	Mostly Cloudy
<b>11:50 AM</b>	63 F	63 %	VAR	1 mph	0.0 in	Mostly Cloudy
<b>12:20 PM</b>	63 F	63 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>12:50 PM</b>	66 F	56 %	VAR	3 mph	0.0 in	Mostly Cloudy
<b>1:20 PM</b>	63 F	63 %	NW	10 mph	0.0 in	Partly Cloudy
<b>1:50 PM</b>	63 F	63 %	NNW	9 mph	0.0 in	Partly Cloudy
<b>2:20 PM</b>	64 F	59 %	NW	7 mph	0.0 in	Partly Cloudy
<b>2:50 PM</b>	64 F	59 %	NW	9 mph	0.0 in	Partly Cloudy
<b>3:20 PM</b>	66 F	56 %	WNW	9 mph	0.0 in	Fair
<b>3:50 PM</b>	66 F	56 %	NW	10 mph	0.0 in	Fair
<b>4:20 PM</b>	68 F	49 %	NW	10 mph	0.0 in	Fair
<b>4:50 PM</b>	66 F	52 %	NW	12 mph	0.0 in	Fair
<b>5:20 PM</b>	66 F	52 %	NNW	12 mph	0.0 in	Fair
<b>5:50 PM</b>	66 F	60 %	NW	9 mph	0.0 in	Fair
<b>6:20 PM</b>	66 F	56 %	NW	9 mph	0.0 in	Fair
<b>6:50 PM</b>	64 F	64 %	NW	12 mph	0.0 in	Fair
<b>7:20 PM</b>	64 F	64 %	NNW	12 mph	0.0 in	Fair
<b>7:50 PM</b>	63 F	72 %	NNW	12 mph	0.0 in	Fair
<b>8:20 PM</b>	63 F	72 %	NW	10 mph	0.0 in	Fair
<b>8:50 PM</b>	61 F	77 %	NW	10 mph	0.0 in	Fair
<b>9:20 PM</b>	61 F	77 %	NNW	10 mph	0.0 in	Fair
<b>10:20 PM</b>	61 F	77 %	NNW	10 mph	0.0 in	Fair
<b>10:50 PM</b>	59 F	82 %	NW	7 mph	0.0 in	Fair

**Table 5 - Meteorological conditions - 01 July 2017**

<b>Time</b>	<b>Temperature</b>	<b>Humidity</b>	<b>Wind</b>	<b>Wind Speed</b>	<b>Precipitation</b>	<b>Condition</b>
<b>5:50 AM</b>	57 F	88 %	NNW	8 mph	0.0 in	Light Drizzle
<b>6:20 AM</b>	57 F	88 %	NW	9 mph	0.0 in	Light Drizzle
<b>6:50 AM</b>	55 F	94 %	NNW	9 mph	0.0 in	Partly Cloudy
<b>7:20 AM</b>	57 F	88 %	NNW	8 mph	0.0 in	Partly Cloudy
<b>7:50 AM</b>	59 F	77 %	NW	8 mph	0.0 in	Partly Cloudy
<b>8:20 AM</b>	59 F	77 %	NNW	9 mph	0.0 in	Mostly Cloudy
<b>8:50 AM</b>	59 F	77 %	NW	10 mph	0.0 in	Mostly Cloudy
<b>9:20 AM</b>	61 F	72 %	NW	7 mph	0.0 in	Mostly Cloudy
<b>9:50 AM</b>	61 F	72 %	NW	9 mph	0.0 in	Mostly Cloudy
<b>10:20 AM</b>	63 F	68 %	NW	8 mph	0.0 in	Mostly Cloudy
<b>10:50 AM</b>	63 F	63 %	NW	9 mph	0.0 in	Mostly Cloudy
<b>11:20 AM</b>	63 F	68 %	WNW	9 mph	0.0 in	Mostly Cloudy
<b>11:50 AM</b>	64 F	64 %	WNW	10 mph	0.0 in	Mostly Cloudy
<b>12:20 PM</b>	64 F	59 %	NW	10 mph	0.0 in	Partly Cloudy
<b>12:50 PM</b>	66 F	64 %	NW	8 mph	0.0 in	Partly Cloudy
<b>1:20 PM</b>	64 F	59 %	NW	9 mph	0.0 in	Partly Cloudy
<b>1:50 PM</b>	66 F	56 %	NW	10 mph	0.0 in	Partly Cloudy
<b>2:20 PM</b>	66 F	60 %	NW	9 mph	0.0 in	Partly Cloudy
<b>2:50 PM</b>	66 F	60 %	WNW	10 mph	0.0 in	Partly Cloudy
<b>3:20 PM</b>	68 F	52 %	WNW	9 mph	0.0 in	Partly Cloudy
<b>3:50 PM</b>	68 F	56 %	WNW	8 mph	0.0 in	Partly Cloudy
<b>4:20 PM</b>	68 F	56 %	WNW	8 mph	0.0 in	Partly Cloudy
<b>4:50 PM</b>	70 F	49 %	W	10 mph	0.0 in	Partly Cloudy
<b>5:20 PM</b>	68 F	52 %	WNW	12 mph	0.0 in	Fair

Time	Temperature	Humidity	Wind	Wind Speed	Precipitation	Condition
5:50 PM	70 F	46 %	WNW	12 mph	0.0 in	Fair
6:20 PM	68 F	52 %	W	9 mph	0.0 in	Fair
6:50 PM	68 F	46 %	W	12 mph	0.0 in	Fair
7:20 PM	66 F	52 %	WNW	12 mph	0.0 in	Fair
7:50 PM	64 F	56 %	W	9 mph	0.0 in	Fair
8:20 PM	64 F	59 %	WNW	10 mph	0.0 in	Fair
8:50 PM	63 F	59 %	W	8 mph	0.0 in	Fair
9:20 PM	63 F	59 %	W	8 mph	0.0 in	Fair
9:50 PM	61 F	68 %	W	7 mph	0.0 in	Fair
10:20 PM	61 F	68 %	W	3 mph	0.0 in	Partly Cloudy
10:50 PM	61 F	68 %	W	6 mph	0.0 in	Partly Cloudy

## 02 - 05 JULY 2017 – DATA UNAVAILABLE

**Table 6 - Meteorological conditions - 06 July 2017**

Time	Temperature	Humidity	Wind	Wind Speed	Precipitation	Condition
5:50 AM	57 F	88 %	N	2 mph	0.0 in	Fair
6:20 AM	59 F	82 %	NNE	2 mph	0.0 in	Fair
6:50 AM	61 F	88 %	CALM	0 mph	0.0 in	Fair
7:20 AM	64 F	73 %	CALM	0 mph	0.0 in	Fair
7:50 AM	68 F	68 %	VAR	2 mph	0.0 in	Fair
8:20 AM	70 F	64 %	VAR	5 mph	0.0 in	Fair
8:50 AM	72 F	60 %	VAR	3 mph	0.0 in	Fair
9:20 AM	73 F	57 %	ESE	6 mph	0.0 in	Fair

Time	Temperature	Humidity	Wind	Wind Speed	Precipitation	Condition
9:50 AM	73 F	57 %	SE	6 mph	0.0 in	Fair
10:20 AM	73 F	57 %	SE	6 mph	0.0 in	Fair
10:50 AM	75 F	53 %	SSE	6 mph	0.0 in	Fair
11:20 AM	75 F	53 %	SE	5 mph	0.0 in	Fair
11:50 AM	77 F	54 %	VAR	3 mph	0.0 in	Fair
12:20 PM	77 F	50 %	VAR	3 mph	0.0 in	Fair
12:50 PM	79 F	51 %	VAR	5 mph	0.0 in	Fair
1:20 PM	79 F	51 %	SSE	5 mph	0.0 in	Fair
1:50 PM	77 F	54 %	SW	9 mph	0.0 in	Fair
2:20 PM	77 F	54 %	SW	8 mph	0.0 in	Fair
2:50 PM	79 F	54 %	SSW	7 mph	0.0 in	Fair
3:20 PM	81 F	51 %	SSE	5 mph	0.0 in	Fair
3:50 PM	81 F	51 %	SSE	5 mph	0.0 in	Fair
4:20 PM	82 F	48 %	SSE	5 mph	0.0 in	Fair
4:50 PM	81 F	51 %	SSW	9 mph	0.0 in	Partly Cloudy
5:20 PM	79 F	57 %	SSW	10 mph	0.0 in	Partly Cloudy
5:50 PM	79 F	54 %	SSW	9 mph	0.0 in	Partly Cloudy
6:20 PM	79 F	57 %	SSW	7 mph	0.0 in	Partly Cloudy
6:50 PM	79 F	54 %	W	8 mph	0.0 in	Fair
7:20 PM	79 F	51 %	W	9 mph	0.0 in	Fair
7:50 PM	77 F	36 %	W	10 mph	0.0 in	Fair
8:20 PM	77 F	39 %	W	8 mph	0.0 in	Fair
8:50 PM	73 F	50 %	W	8 mph	0.0 in	Fair
9:20 PM	72 F	53 %	W	7 mph	0.0 in	Fair

<b>Time</b>	<b>Temperature</b>	<b>Humidity</b>	<b>Wind</b>	<b>Wind Speed</b>	<b>Precipitation</b>	<b>Condition</b>
<b>9:50 PM</b>	70 F	53 %	W	6 mph	0.0 in	Fair
<b>10:20 PM</b>	68 F	56 %	W	2 mph	0.0 in	Fair
<b>10:50 PM</b>	66 F	60 %	VAR	3 mph	0.0 in	Fair
<b>11:20 PM</b>	66 F	60 %	WNW	6 mph	0.0 in	Fair



# 3. BROADBAND NOISE SURVEY RESULTS

## 3.1. MEASUREMENT POSITION 1

Table 7 - Noise survey results – measurement position 1

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
28 June 2017	14:00	45.5	34.8
	15:00	44.6	36.7
	16:00	42.8	35.1
	17:00	46.3	36.1
	18:00	49.8	35.5
	19:00	49.1	35.6
	20:00	45.1	33.1
	21:00	39.7	32.5
	22:00	35.5	31.9
	23:00	34.6	31.1
29 June 2017	00:00	39.5	30.3
	01:00	34.3	31.4
	02:00	35.5	33.1
	03:00	33.3	31.3
	04:00	43.7	33
	05:00	48.9	32.9
	06:00	48.6	35.6
	07:00	45.7	32.8
	08:00	45.7	33.8

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
<b>30 June 2017</b>	09:00	44.1	32.9
	10:00	45.2	33.2
	11:00	44.5	34.8
	12:00	43.7	31.4
	13:00	46.9	30.9
	14:00	47.2	32.7
	15:00	42.2	29.6
	16:00	42.5	31.2
	17:00	42.4	30.6
	18:00	49.2	28.9
	19:00	46.7	30.2
	20:00	38.3	27.6
	21:00	40.2	26.6
	22:00	34.8	24.5
	23:00	29.8	24.4
	00:00	27.4	23.4
	01:00	29.3	26
	02:00	31.4	29.6
	03:00	32.4	26.1
	04:00	41.9	34.7
	05:00	46.8	35
	06:00	50.3	35.3
	07:00	46.5	34.5
	08:00	49.4	35.2
09:00	48.4	33.1	

OR

WSP

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
<b>01 July 2017</b>	10:00	47.4	33.3
	11:00	42.3	32.2
	12:00	41.2	31.8
	13:00	44.5	31.8
	14:00	43.5	32.1
	15:00	43.9	35.2
	16:00	44.5	35
	17:00	43.9	34.6
	18:00	41.3	35.5
	19:00	45.4	33.1
	20:00	44	33.9
	21:00	40	29.3
	22:00	38.8	28.2
	23:00	30	26.3
	00:00	29.4	25.5
	01:00	36.2	32.4
	02:00	36.5	30.5
	03:00	30.5	25.4
	04:00	38	30.9
	05:00	48.9	36.1
	06:00	48.2	35.5
	07:00	47.5	36.3
	08:00	43.9	35.7
	09:00	46.1	35.3
10:00	45.5	33.5	

OR

WSP

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	11:00	45.1	32.6
	12:00	44.5	36.6
	13:00	45.1	32.5
	14:00	46.5	33.4
	15:00	50.4	36.1
	16:00	50	33.5
	17:00	42.2	33.9
	18:00	47.3	33.6
	19:00	45	31.7
	20:00	46.5	33.6
	21:00	39.8	28.1
	22:00	35.9	28.5
	23:00	34.6	29.4
	02 July 2017	00:00	32
01:00		28.3	21.2
02:00		29.2	19.8
03:00		25	19.5
04:00		43.2	21.9
05:00		51.4	32
06:00		50.1	31.5
07:00		47	37.3
08:00		48.1	38.5
09:00		47.5	36.9
10:00		40.8	35
11:00		43.5	33.2

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
<b>03 July 2017</b>	12:00	44.6	32.5
	13:00	43.8	33.2
	14:00	43	32.5
	15:00	43.5	32
	16:00	43.5	31.1
	17:00	47.3	33.1
	18:00	48.1	34.1
	19:00	42.6	31.5
	20:00	46.4	28.9
	21:00	42.7	25.9
	22:00	32	23.9
	23:00	29.2	21.4
	00:00	24.4	20.5
	01:00	23.7	20.4
	02:00	29.7	21.6
	03:00	36.1	22.1
	04:00	40.4	24.4
	05:00	49.7	32.4
	06:00	47.1	32.5
	07:00	45.1	33.9
	08:00	44.4	31.6
	09:00	43.4	34.2
	10:00	46.4	33.5
	11:00	42.9	33
12:00	47.4	34	

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>	
	13:00	41.7	33.3	
	14:00	41.8	32.7	
	15:00	52.2	32.1	
	16:00	45	32.1	
	17:00	44.7	34.7	
	18:00	48.3	32	
	19:00	41.8	30.6	
	20:00	51.4	27.6	
	21:00	38.8	25.5	
	22:00	34.7	22.7	
	23:00	26.1	22.9	
	04 July 2017	00:00	24.1	21
		01:00	25.8	22.3
02:00		33	23.3	
03:00		25.3	22.8	
04:00		45.6	27.4	
05:00		48.4	32.6	
06:00		46.3	32.7	
07:00		44.2	31.5	
08:00		42.5	30.6	
09:00		44.4	31.5	
10:00		43.7	30.8	
11:00		45.6	30.9	
12:00		43	31	
13:00	45.5	30.3		

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
<b>05 July 2017</b>	14:00	44.5	30.6
	15:00	43.1	31
	16:00	48.4	31.7
	17:00	40.4	30.6
	18:00	52.7	30.1
	19:00	47.1	30.6
	20:00	39	27.5
	21:00	38.6	24.9
	22:00	36.6	23.6
	23:00	30.6	24
	00:00	28	25.4
	01:00	30.9	27.9
	02:00	30.3	28.3
	03:00	31.7	28.5
	04:00	41.9	32.1
	05:00	46.4	34.6
	06:00	44.3	35.7
	07:00	40.7	35.4
	08:00	40.7	33.6
	09:00	44.2	32.3
	10:00	44.4	31.9
	11:00	42	31.1
	12:00	41.7	32.2
13:00	42.1	31.9	
14:00	44.9	31.5	

Date	Time	L <sub>Aeq</sub> , 1hr	L <sub>A90</sub> , 1hr
	15:00	40.9	31.9
	16:00	42.9	32.9
	17:00	40.3	31.8
	18:00	42.6	29.8
	19:00	43	28.6
	20:00	40.4	28.4
	21:00	42.3	29.7
	22:00	35.5	31.5
	23:00	33.7	30.7
	<b>06 July 2017</b>	00:00	33.5
01:00		32.3	30
02:00		33.2	31.2
03:00		33.7	31.5
04:00		38.6	33.4
05:00		46.4	37
06:00		46.9	37.8
07:00		45.7	37.8
08:00		45.4	37.7



### 3.2. MEASUREMENT POSITION 2

**Table 8 - Noise survey results - measurement position 2**

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
<b>28 June 2017</b>	15:00	40.5	30.5
	16:00	38.4	31.3
	17:00	39.5	31.5
	18:00	40.4	30
	19:00	42.3	29.5
	20:00	39.4	30.5
	21:00	34.4	28.3
	22:00	32.5	26.6
	23:00	29	25.6
<b>29 June 2017</b>	00:00	36.8	25
	01:00	36.2	33.2
	02:00	36	30.4
	03:00	27.4	24.6
	04:00	36.5	24.8
	05:00	41.2	28
	06:00	43.1	29.4
	07:00	41.9	29.5
	08:00	41.9	30.8
	09:00	39.8	29.6
	10:00	45.3	31.5
	11:00	44.2	31.1
	12:00	41.1	30.5
	13:00	40.1	30.5

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	14:00	42.9	30.5
	15:00	39.9	30.3
	16:00	37.4	30.8
	17:00	40.2	29.6
	18:00	39.5	28.6
	19:00	38.5	29.1
	20:00	37.3	26.1
	21:00	32.6	25.1
	22:00	35.9	23.5
	23:00	27.1	22.6
<b>30 June 2017</b>	00:00	30.2	26.6
	01:00	24.6	22
	02:00	22.7	21.4
	03:00	25.1	21.8
	04:00	41.2	25.2
	05:00	43.8	28.7
	06:00	44.6	29.7
	07:00	42.8	29.9
	08:00	43.5	31.1
	09:00	44.2	30.7
	10:00	45.5	31.7
	11:00	42.8	31.6
	12:00	37.2	30.6
	13:00	41.7	30.4
14:00	40.5	31.2	

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	15:00	40.9	34
	16:00	42	33.8
	17:00	42.5	33.2
	18:00	38.2	33
	19:00	39.4	31.2
	20:00	38.8	31.7
	21:00	36.1	27.7
	22:00	37.8	25.9
	23:00	31	25
01 July 2017	00:00	30.3	25.1
	01:00	33.8	29.9
	02:00	33.6	27.2
	03:00	40.2	23.9
	04:00	43.3	29
	05:00	43.5	32.8
	06:00	41.1	30.5
	07:00	42.1	33.6
	08:00	42.3	34
	09:00	42.7	32.9
	10:00	43.9	33.6
	11:00	42.5	33.5
	12:00	44	35.6
	13:00	39	33.1
	14:00	39.6	31.5
15:00	38.6	31.5	

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	16:00	43.5	31.7
	17:00	43.1	35.8
	18:00	41.9	33.7
	19:00	41.6	30.3
	20:00	38.1	30.5
	21:00	36.7	27.5
	22:00	32.5	25.3
	23:00	31.9	27.8
<b>02 July 2017</b>	00:00	33.6	25
	01:00	35.7	24.1
	02:00	24	22.4
	03:00	27.3	22.7
	04:00	41.1	23.2
	05:00	42	27.4
	06:00	54.3	27.4
	07:00	40.7	32.9
	08:00	45	36.3
	09:00	40.1	34.4
	10:00	41.6	34.5
	11:00	48.2	33.1
	12:00	41.7	32.6
	13:00	43.8	33.4
	14:00	43.9	32.9
	15:00	43.9	33.4
16:00	45.6	32	

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	17:00	42.6	30.1
	18:00	42.8	33.9
	19:00	43.9	31.1
	20:00	39.4	30.1
	21:00	41.6	28.4
	22:00	31.3	26.4
	23:00	29	25.4
<b>03 July 2017</b>	00:00	26.3	24.7
	01:00	25.4	22.5
	02:00	23.8	22.3
	03:00	24.5	22.7
	04:00	37	23.4
	05:00	39.9	28.6
	06:00	37.8	29.7
	07:00	41	30.7
	08:00	41.8	31.5
	09:00	43.2	32.9
	10:00	44.3	33.2
	11:00	40.5	33.6
	12:00	44.7	36.2
	13:00	41.7	35
	14:00	41.9	34.5
	15:00	39.9	32.8
	16:00	42	34.6
17:00	43	35.9	

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	18:00	38.4	33.4
	19:00	37.9	31.5
	20:00	35.5	27.8
	21:00	36.6	25.5
	22:00	32.6	22.7
	23:00	29.5	22.7
<b>04 July 2017</b>	00:00	25.3	22.2
	01:00	26.4	22.6
	02:00	26.1	22.6
	03:00	23.5	22.1
	04:00	40.8	24
	05:00	39.3	27.7
	06:00	39.2	29.5
	07:00	36.8	30.8
	08:00	39.8	32
	09:00	40	33.6
	10:00	41.1	32.5
	11:00	39.1	31.7
	12:00	39.3	32.4
	13:00	40.1	32.1
	14:00	37.1	30.5
	15:00	42.4	31.1
	16:00	42.6	31.9
	17:00	40.7	31.9
18:00	37.2	31	

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	19:00	43.5	31.6
	20:00	37.4	28.6
	21:00	35.9	26.3
	22:00	30.7	24.8
	23:00	29.1	23.6
<b>05 July 2017</b>	00:00	26.8	22.2
	01:00	26.2	22
	02:00	27.8	22.6
	03:00	28.1	23
	04:00	39.7	25.5
	05:00	37.7	30.4
	06:00	45.7	33.3
	07:00	45.1	35.2
	08:00	39.7	34.5
	09:00	39.4	33.8
	10:00	39.5	33.5
	11:00	39	33.9
	12:00	40.9	35.1
	13:00	43.4	35.2
	14:00	40.5	34.7
	15:00	40.4	35.2
	16:00	40.8	35.4
	17:00	40.9	33.6
	18:00	38.6	31
	19:00	37.5	30.5

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	20:00	36.1	29.8
	21:00	39.7	30.7
	22:00	35	29.7
	23:00	32	29.5
06 July 2017	00:00	34.8	28.8
	01:00	31.4	29.2
	02:00	34.3	31
	03:00	35.1	31.7
	04:00	37	32.6
	05:00	41.6	36.5
	06:00	43.9	38
	07:00	43.6	39.3
	08:00	45.3	39.2
	09:00	45.2	38.5

### 3.3. MEASUREMENT POSITION 3

Table 9 - Noise survey results - measurement position 3

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
28 June 2017	16:00	44.4	32.1
	17:00	42	33
	18:00	39.5	31.9
	19:00	39.2	30.1
	20:00	41.1	30.2
	21:00	39	28.8
	22:00	38.7	27.7



Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	23:00	30.4	26.9
<b>29 June 2017</b>	00:00	41.3	25.6
	01:00	42.1	29.4
	02:00	36.6	30.5
	03:00	28.9	25.8
	04:00	41.7	27.7
	05:00	47.6	29.1
	06:00	47.9	27.7
	07:00	46.5	28.5
	08:00	45.8	26.9
	09:00	45.4	26
	10:00	44.5	27.3
	11:00	43.6	28.2
	12:00	39.5	27.8
	13:00	42.7	27.4
	14:00	44.8	28.2
	15:00	43.4	27.7
	16:00	42	29.1
	17:00	43.1	28.9
	18:00	38.5	27.2
	19:00	41.5	25.1
	20:00	42	23.1
	21:00	37.6	22.9
	22:00	30.9	20.1
	23:00	25.1	19.1

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
<b>30 June 2017</b>	00:00	36.4	17.9
	01:00	20.9	18.2
	02:00	24	20.9
	03:00	25.4	20.1
	04:00	41.5	27.4
	05:00	47.3	29.1
	06:00	45.1	30.2
	07:00	45.6	27.8
	08:00	45.7	29.5
	09:00	45.8	27.2
	10:00	42.5	27.9
	11:00	42.4	27.5
	12:00	43.3	26.9
	13:00	43.5	29.5
	14:00	41.2	28.7
	15:00	45.7	32.1
	16:00	43.2	31
	17:00	43.3	31.3
	18:00	43.2	31.8
	19:00	43.6	29.3
	20:00	43.7	30.1
	21:00	37.6	25.8
	22:00	42.5	24.9
	23:00	36.8	23.1
	00:00	27.2	22.6

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
01 July 2017	01:00	38.1	29
	02:00	37.3	27.4
	03:00	28.8	21.6
	04:00	44.7	25.7
	05:00	40.6	31.8
	06:00	42.1	32
	07:00	45.4	33.3
	08:00	40.2	32.1
	09:00	43.8	33.6
	10:00	43.5	32.9
	11:00	42.5	30.7
	12:00	41.8	32.5
	13:00	38.3	28.8
	14:00	39.8	29.5
	15:00	39.8	31.6
	16:00	40.7	29
	17:00	45.7	36.4
	18:00	43.4	34.5
	19:00	42.1	29
	20:00	39.2	30.3
	21:00	40.6	27.2
	22:00	33.6	27.4
	23:00	34.8	27
02 July 2017	00:00	31.6	23.5
	01:00	35.2	19.9

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	02:00	24.1	18.2
	03:00	21.3	17.4
	04:00	43.1	18.2
	05:00	41.3	25.4
	06:00	40.7	26.3
	07:00	47.1	34.5
	08:00	45.1	38.3
	09:00	47.6	32.3
	10:00	42.1	32.3
	11:00	42.1	30
	12:00	43.3	28.9
	13:00	40.6	28.3
	14:00	40.8	29
	15:00	47.2	29
	16:00	40.9	27.7
	17:00	45.4	30.4
	18:00	41.4	33
	19:00	39.9	30.2
	20:00	44.9	27.9
	21:00	33	24.2
	22:00	28.2	21.1
	23:00	31.4	18.6
<b>03 July 2017</b>	00:00	20.9	17.8
	01:00	23.5	20.3
	02:00	24.5	21.2

OR

WSP

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>	
	03:00	24.6	20	
	04:00	38.9	20.8	
	05:00	40.6	27	
	06:00	42.2	29	
	07:00	48.3	31.5	
	08:00	46.5	31.3	
	09:00	47.4	32.7	
	10:00	41.8	32.7	
	11:00	42.3	34.5	
	12:00	44.6	34.7	
	13:00	43.9	34.5	
	14:00	45.3	33.2	
	15:00	43.7	33.2	
	16:00	43.5	33.6	
	17:00	46.3	36.3	
	18:00	44.3	33.6	
	19:00	41.1	29.7	
	20:00	39.4	27.3	
	21:00	37	22	
	22:00	35.9	20.2	
	23:00	23.5	20.8	
	04 July 2017	00:00	21.1	18.7
		01:00	32.4	19
02:00		31.7	21.4	
03:00		35	20.7	

OR

WSP

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>	
	04:00	36.5	23.8	
	05:00	41.8	29.2	
	06:00	49.5	30.1	
	07:00	44.4	29	
	08:00	45.2	27.4	
	09:00	40.2	26.2	
	10:00	45	27.4	
	11:00	43.4	28.9	
	12:00	40.6	29	
	13:00	40.6	29.1	
	14:00	44.4	29.1	
	15:00	43.1	27.7	
	16:00	40.4	29.5	
	17:00	40.7	28.9	
	18:00	41.5	29.2	
	19:00	39.7	27.5	
	20:00	36.4	25.9	
	21:00	33.9	23.8	
	22:00	28.4	21.8	
	23:00	35	21.9	
	<b>05 July 2017</b>	00:00	26.6	21.3
		01:00	26.3	22.3
		02:00	27.5	24.2
03:00		28.8	23.5	
04:00		36.6	26.9	

OR

WSP

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>	
	05:00	42.2	31.4	
	06:00	41.3	34.1	
	07:00	50.1	34.1	
	08:00	46.5	32.9	
	09:00	38.2	29.6	
	10:00	39.5	28.7	
	11:00	39	28.7	
	12:00	42.1	30.6	
	13:00	42.4	29.7	
	14:00	39.4	29	
	15:00	40.1	31.2	
	16:00	43.3	31.9	
	17:00	38.5	30.4	
	18:00	37.5	28.4	
	19:00	40.2	27.9	
	20:00	37.2	26.9	
	21:00	34.8	28.1	
	22:00	32.3	27.7	
	23:00	33.7	27.3	
	06 July 2017	00:00	30.4	25.5
		01:00	37	26
		02:00	29.7	27.4
		03:00	31.1	28.2
04:00		38.8	31	
05:00		42.5	36.6	

OR

WSP

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	06:00	42.2	36.8
	07:00	44	37.1
	08:00	42.6	36.5
	09:00	42.1	35.1

### 3.4. MEASUREMENT POSITION 4

Table 10 - Noise survey results - measurement position 4

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
28 June 2017	16:00	38.5	32.3
	17:00	38.5	33.2
	18:00	37	31.5
	19:00	48.2	31.6
	20:00	40.3	30.3
	21:00	33.8	29.1
	22:00	38.4	28.1
	23:00	30.6	27.6
29 June 2017	00:00	36.4	26.9
	01:00	30.1	28.2
	02:00	30.2	28.7
	03:00	28.7	27.1
	04:00	35.3	28.8
	05:00	35.5	29
	06:00	36.7	29.8
	07:00	39	31.4
	08:00	37.6	31



Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
30 June 2017	09:00	37	30.5
	10:00	38.6	31.3
	11:00	39	32.1
	12:00	42.5	31.1
	13:00	38.5	30.7
	14:00	44.8	31.4
	15:00	38.2	30.9
	16:00	37.5	32.2
	17:00	39.9	32.8
	18:00	39.2	30.7
	19:00	36.3	28.8
	20:00	36.2	27.1
	21:00	38.5	26.9
	22:00	34.5	25.9
	23:00	29.6	25.6
	00:00	27.1	24.8
	01:00	29.2	25.4
	02:00	27.8	25.3
	03:00	28.7	25.8
	04:00	34.5	28.8
	05:00	35.4	29.7
	06:00	39.8	30.3
	07:00	40.1	30
08:00	52.5	31.6	
09:00	42	30.4	

OR

WSP

Date	Time	L <sub>Aeq</sub> , 1hr	L <sub>A90</sub> , 1hr
01 July 2017	10:00	41.8	31.6
	11:00	41.3	31
	12:00	36.3	30.1
	13:00	38.8	31.2
	14:00	43.3	31.9
	15:00	42.4	32.7
	16:00	46.3	34
	17:00	44.9	33.1
	18:00	38.7	32.3
	19:00	39.3	31.6
	20:00	37.5	32.3
	21:00	35.4	30.6
	22:00	32.6	29.1
	23:00	31.4	28.2
	00:00	31.7	27.9
	01:00	34.6	30.4
	02:00	35	28.5
	03:00	31.5	26.7
	04:00	37.5	30.1
	05:00	36.5	31.2
	06:00	41.5	30.9
	07:00	40.2	32.5
	08:00	38.6	31.9
	09:00	44.3	32.7
10:00	42.5	32.9	

OR

WSP

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
<b>02 July 2017</b>	11:00	41.3	32.6
	12:00	46.1	35.5
	13:00	39.1	33
	14:00	40.8	32.4
	15:00	42.1	34.3
	16:00	44.1	32.3
	17:00	43.2	36.1
	18:00	42.1	34.2
	19:00	43.8	31.8
	20:00	39.3	32.8
	21:00	41.1	30
	22:00	36.8	29.9
	23:00	38.1	31.1
	00:00	36.5	28.4
	01:00	32.9	27.1
	02:00	28.6	25.6
	03:00	28.7	26.1
	04:00	35	26.8
	05:00	36.5	27.6
	06:00	37.9	28.3
	07:00	43.5	33.1
	08:00	40.7	33.4
	09:00	38.8	34.2
10:00	41.5	34.5	
11:00	39.2	34	

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>	
	12:00	44.6	33.1	
	13:00	46.5	32.3	
	14:00	42	32.6	
	15:00	41.8	31.6	
	16:00	43.1	30.8	
	17:00	39.5	30.7	
	18:00	45.9	33.2	
	19:00	38.7	31.4	
	20:00	36.9	30.6	
	21:00	37.6	28.7	
	22:00	33.2	27	
	23:00	31.2	26.4	
	<b>03 July 2017</b>	00:00	27.3	26.2
		01:00	27.6	26.1
02:00		28	26.6	
03:00		28.9	26.8	
04:00		33.3	28	
05:00		39.3	29.8	
06:00		39.3	31.6	
07:00		39.8	32.8	
08:00		41.7	34.6	

### 3.5. MEASUREMENT POSITION 5

3.5.1.1. Measurements at this position comprised short-term attended measurements and therefore full survey results are present in Chapter 24 (Noise and Vibration).

### 3.6. MEASUREMENT POSITION 6

**Table 11 - Noise survey results - measurement position 6**

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
28 June 2017	17:00	45.7	33.9
	18:00	39.9	32.7
	19:00	41.1	32.3
	20:00	40	32
	21:00	39.4	31.1
	22:00	32.8	29.9
	23:00	32.3	29.2
29 June 2017	00:00	36.8	27
	01:00	35.9	34.6
	02:00	36	32.1
	03:00	28.1	26
	04:00	45.9	26.3
	05:00	45.1	30.4
	06:00	37	29.5
	07:00	42	30
	08:00	41.6	31
	09:00	38.3	29
	10:00	39.8	28.7
	11:00	41.1	30.5
	12:00	44.7	31.1
	13:00	40.4	31.2

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	14:00	47	31.4
	15:00	40	31.2
	16:00	38.7	32.1
	17:00	38.5	31
	18:00	39.9	30.7
	19:00	42.5	31.5
	20:00	39.3	27.2
	21:00	39.8	24
	22:00	36.3	23.4
	23:00	27.2	22.9
	<b>30 June 2017</b>	00:00	33.5
01:00		28.3	22.3
02:00		24.8	23
03:00		27.5	23.8
04:00		51.6	30.4
05:00		41.4	31.9
06:00		40.6	31.6
07:00		42.1	30
08:00		40.6	31.2
09:00		42.2	31
10:00		42.3	30.1
11:00		42.3	31.8
12:00		47.4	31
13:00		47.7	31.6
14:00	53	32.8	

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	15:00	47	35.4
	16:00	43.7	34.6
	17:00	43.4	35.2
	18:00	39.1	34.1
	19:00	39.4	33.3
	20:00	38.1	32.2
	21:00	45.3	28.7
	22:00	31.7	27.8
	23:00	32.5	27.1
	<b>01 July 2017</b>	00:00	31.2
01:00		35.4	30.9
02:00		37.7	28.5
03:00		30.1	24.8
04:00		47.5	29.8
05:00		44.1	36.5
06:00		41.6	34.2
07:00		43.8	33.6
08:00		43.4	33.4
09:00		48.1	33.1
10:00		45	33
11:00		45.2	33.5
12:00		42.8	35.3
13:00		38.3	32.5
14:00		41.4	32.4
15:00		40.2	32.6

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	16:00	45.6	32.5
	17:00	46.2	37.6
	18:00	43.8	35.5
	19:00	42	32.1
	20:00	39.1	33
	21:00	39.9	28.8
	22:00	32.1	28.4
	23:00	33.6	31.4
<b>02 July 2017</b>	00:00	32.6	28.9
	01:00	30.6	28
	02:00	29.1	26.7
	03:00	29.8	27.3
	04:00	41.8	27.6
	05:00	37.6	29.5
	06:00	39.2	30
	07:00	44.6	32.6
	08:00	46.7	35.7
	09:00	41.2	35.1
	10:00	43.6	35.2
	11:00	41.1	32.7
	12:00	44.7	31.9
	13:00	47.8	33.1
	14:00	41	32.5
	15:00	44.8	32.3
16:00	43.6	32.1	



Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	17:00	40.3	31.7
	18:00	43.1	35.8
	19:00	43.8	33.6
	20:00	45.3	31.7
	21:00	40.3	30.5
	22:00	34.5	27.6
	23:00	40.3	28.1
<b>03 July 2017</b>	00:00	30.1	27.6
	01:00	37.4	26.9
	02:00	30.4	26.5
	03:00	37.4	25.7
	04:00	36.2	26.6
	05:00	47.4	29.9
	06:00	43.7	32.5
	07:00	38.3	31.6
	08:00	39.6	32.3
	09:00	42.3	34.7
	10:00	43.5	35.1
	11:00	40.7	35.6
	12:00	44.6	36.7
	13:00	42.2	37.6
	14:00	43.2	36.3
	15:00	41.4	36.2
	16:00	40.7	35.8
	17:00	43.6	36.8

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	18:00	40.1	35.1
	19:00	40.1	32.9
	20:00	37.6	30.8
	21:00	39.9	28.2
	22:00	31.8	25
	23:00	27.4	24.9
<b>04 July 2017</b>	00:00	27.2	25
	01:00	27.5	25.2
	02:00	33.8	25.6
	03:00	26.8	25.2
	04:00	49.8	29.2
	05:00	48.8	29.8
	06:00	39	31.3
	07:00	37.5	29.6
	08:00	39.3	30.1
	09:00	38.8	30.7
	10:00	40.2	32.8
	11:00	46.2	34.2
	12:00	57.1	34.4
	13:00	48.9	33.7
	14:00	40.3	33.3
	15:00	54.3	35.5
	16:00	59.3	39.5
	17:00	53.8	36.2
18:00	57.2	36	

Date	Time	L <sub>Aeq, 1hr</sub>	L <sub>A90, 1hr</sub>
	19:00	42.6	33.9
	20:00	38.2	30.9
	21:00	35.8	28.5
	22:00	40.3	28.7
	23:00	37.7	23.8
<b>05 July 2017</b>	00:00	28.5	23
	01:00	26.2	24
	02:00	28	24.5
	03:00	30.5	26.3
	04:00	44.3	28.5
	05:00	40.2	31.9
	06:00	43.1	37.4
	07:00	43.6	36.7
	08:00	43.3	36.7
	09:00	42.1	36.4
	10:00	42.3	34.4
	11:00	42.9	34.2
	12:00	43.1	35.3
	13:00	43	34.8
	14:00	43.7	35.1
	15:00	42	36.9
	16:00	41.4	36.3
	17:00	40.9	34.4
	18:00	40.5	33
	19:00	37.7	31.7

Date	Time	L <sub>Aeq</sub> , 1hr	L <sub>A90</sub> , 1hr
	20:00	38.4	31
	21:00	38.9	31.8
	22:00	34.2	30.1
	23:00	33	30.8
<b>06 July 2017</b>	00:00	32.3	28.2
	01:00	30.7	28.3
	02:00	30.8	28.9
	03:00	30.7	28.7
	04:00	38.2	31.5
	05:00	42.2	36.5
	06:00	42	39.5
	07:00	45.1	39.4
	08:00	47.4	37.5
	09:00	39.8	37.1
	10:00	39.9	35.8

## 4. OCTAVE BAND NOISE SURVEY RESULTS

### 4.1. TYPICAL DAYTIME OCTAVE BAND BACKGROUND NOISE LEVELS

4.1.1.1. These octave band background noise levels are the daytime noise criteria for the operational assessment.

**Table 12 - Octave band breakdown of typical daytime background noise levels**

Measurement Position	Typical Daytime Background Noise Level (dB, L <sub>AF90</sub> )									
	31.5Hz	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	L <sub>AF90</sub>
1	6.5	18.0	23.1	24.2	26.4	26.8	24.3	23.1	18.1	33
2	6.6	17.8	21.8	24.1	27.4	26.6	23.9	22.6	18.9	33
3	-11.3	4.4	11.4	17.8	24.9	25.5	21.5	18.7	15.9	30
4	5.3	16.5	27.8	20.8	24.5	24.1	21.4	19.5	16.3	32
5	15.8	22.5	25.9	30.0	35.3	38.6	36.4	31.1	22.0	43
6	5.6	15.8	21.2	24.5	28.6	26.0	23.3	22.1	15.4	33

**N.B. Octave band data is A-weighted**

