

June 2023

# London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents
5.11 Ambient noise monitoring data and survey sheets

Application Document Ref: TR020001/APP/5.11

APFP Regulation: 5(2)(a)



#### **The Planning Act 2008**

The Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009

# London Luton Airport Expansion Development Consent Order 202[]

### **5.11 Ambient noise monitoring data and survey sheets**

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#### 1 INTRODUCTION

1.1.1 This document has been prepared in response to the following Rule 9 Request of 16 May 2023:

"To ensure clear understanding of the noise survey and data compilation approach, the ExA has made a procedural decision to request BS7445 survey datasheets/ monitoring reports (or equivalent) for each of the attended noise monitoring locations, showing full details of location and set up information. The information provided should include the meteorological data used to exclude adverse weather periods from the baseline datasets."

- 1.1.2 This document contains the following:
  - a. the purpose of noise monitoring (Section 2);
  - b. meteorological data (Section 3);
  - c. time-history plots with periods of adverse weather (Section 4)
  - d. noise monitoring set up information (Section 5);
  - e. ambient noise monitoring locations (Section 6); and
  - f. noise survey sheets (Section 7).

#### 2 PURPOSE OF NOISE MONITORING

2.1.1 Two types of baseline noise monitoring have been undertaken to inform the noise assessment undertaken in **Chapter 16 of the ES [TR020001/APP/5.01]** as described in **Table 2.1.** 

Table 2.1: Description and purpose of baseline noise monitoring

Noise monitoring	Description	Purpose
Aircraft noise monitoring	Measurement of individual aircraft noise events using LLAOL's permanent and temporary noise monitoring terminals.	Used to validate the aircraft noise model by comparing measured noise levels of individual aircraft types to those predicted by the aircraft noise model.
		See Appendix 16.1 of the ES [TR020001/APP/5.02] for full details of the aircraft noise model validation.
Ambient noise monitoring	Measurement of all sound sources (ambient noise) at community locations.	Used to spot-check and verify the baseline road traffic noise levels at key road links in the surface access study area 1.
	Noise monitoring was undertaken at locations agreed with the Noise Working Group (see Section 16.4 of Chapter 16 of the ES [TR020001/APP/5.01]) and at additional locations identified through 2019 statutory consultation (see Section 4 of Appendix 16.1 of the ES [TR020001/APP/5.02]).	Used to provide qualitative information about the character of the existing noise environment at an assessment location and hence provide context for the noise assessment.

- 2.1.2 Section 16.5 of Chapter 16 of the ES [TR020001/APP/5.01] sets out that the ambient noise monitoring data does not directly influence the identification of noise effects and instead has been used to either provide spot-checks for the calculated baselines or to provide qualitative information regarding the character of the existing noise environment.
- 2.1.3 The assessment of aircraft air noise, aircraft ground noise and surface access noise uses calculated (rather than measured) baselines. The baseline noise levels are calculated to firstly enable future baselines to be consistently established and also to ensure a consistent calculation of noise change between the Do-Minimum (future baseline) and Do-Something scenarios. As set out in **Chapter 16 of the ES [TR020001/APP/5.01]**, the assumptions used to calculate the baseline, future baseline and Do-Something scenarios have been chosen to provide a reasonable worst-case assessment of noise effects.
- 2.1.4 The assessment of construction noise effects uses evaluation criteria that assume low ambient noise levels at all receptors, even for receptors close to the airport or other existing noise sources such as main roads or the M1. The

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<sup>&</sup>lt;sup>1</sup> The calculated road traffic noise baseline has not needed to have been adjusted as a result of the spot checks.

construction noise assessment is therefore a worst case. For the small number of receptors that are predicted to exceed the construction noise Lowest Observable Adverse Effect Level (LOAEL), the ambient noise level data from one monitoring location has been used to provide additional information about the character of the existing noise environment and hence provide context for the assessment to assist in identifying noise effects.

2.1.5 **Table 2.1** provides a summary of which ambient noise monitoring locations have been used for which purpose as described above.

Table 2.1: Summary of baseline noise data use

Location	Assessment	Use	Informs the identification of noise effects?
ML15	Construction noise	Used to provide qualitative information about the character of the existing noise environment at an assessment location and hence provide context for the noise assessment to assist in identifying noise effects.	Indirectly
ML23, ML24, ML25, ML26, ML27, Ml28, ML29, ML41, ML42, ML43 and ML44	Surface access noise	Validation of baseline surface access noise model	No
ML1, ML2, ML3, ML4, ML5, ML7, ML7, ML8, ML9, ML9, ML10, ML11, ML12, ML13, ML14, ML15, ML16, ML17, ML18, ML19, ML20, ML21, ML22, ML30, ML31 and ML37	Air noise	Used to provide qualitative information about the character of the existing noise environment at an assessment location and hence provide context for the noise assessment only.	No

#### 3 METEOROLOGICAL DATA

3.1.1 Meteorological conditions recorded by the London Luton Airport weather station have been used to identify periods of adverse weather conditions over the unattended monitoring periods i.e. periods of rain and windspeeds greater than 5 m/s. These periods have been removed from the monitoring results as

- adverse weather conditions may result in measurements of increased noise levels that may not be representative of typical noise conditions. Removal of this measurement data is therefore a reasonable worst-case.
- This is typical for unattended noise surveys over a long period of time<sup>2</sup> to cover weekly periodicity of noise (with reference to BS 7445, Ref 1) and is not considered to be a material limitation in the ambient sound survey methodology.
- 3.1.3 Weather conditions for the following periods are provided:
  - a. August to November 2018 (Figure 7.1);
  - b. April to May 2019 (Figure 7.2);
  - c. February to March 2020 (Figure 7.3); and
  - d. July 2021 (Figure 7.4).

## 4 TIME-HISTORY PLOTS WITH PERIODS OF ADVERSE WEATHER

- 4.1.1 Time-history plots showing periods of adverse weather conditions for all monitoring locations are presented in **Figure 7.45** to **Figure 7.78**.
- 4.1.2 As identified in **Table 2.1**, unattended noise monitoring data from ML15 is the only data that has been (indirectly) used to assist in identifying construction noise effects. Even after removal of periods of adverse weather conditions, the remaining data from ML15 represents more than 8 days' worth of daytime and night-time data. This amount of noise data covers weekly noise periodicity and provides representative data of typical ambient noise conditions.

#### 5 NOISE MONITORING SET UP INFORMATION

5.1.1 The monitoring equipment met the Class 1 standard and conform to BS EN 61672-2: 2003 (Ref 2). Monitoring equipment was set up at a height of approximately 1.5 m and located at least 3.5 m away from any reflecting structure. All monitoring equipment were fitted with wind shields to protect the microphone diaphragm from gusts of air.

#### 6 AMBIENT NOISE MONITORING LOCATIONS

Baseline noise monitoring measurement of all sound sources (ambient noise) was undertaken at community locations. Noise monitoring locations were agreed with the Noise Working Group (see Section 16.4 of Chapter 16 of the ES [TR020001/APP/5.01]) and at additional locations identified through 2019 statutory consultation (Section 4 of Appendix 16.1 [TR020001/APP/5.02]). All ambient noise monitoring locations are presented in Table 6.1 and illustrated in Figure 16.3 of the ES [TR020001/APP/5.03].

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<sup>&</sup>lt;sup>2</sup> the average measurement duration was 21 days

Table 6.1: Baseline sound monitoring locations

Location	Details	Primary Sound Sources	Secondary Sound Sources	Measurement Format
ML1	Someries Castle, Central Beds	Aircraft	Road traffic	Unattended
ML2	Diamond End, North Herts	Aircraft	Road traffic, dog barking	Unattended
ML3	Langley, North Herts	Aircraft	Road traffic	Unattended
ML4	Breachwood Green, North Herts	Birdcall	Aircraft and road traffic	Unattended
ML5	Bendish, North Herts	Aircraft	Birdcall	Unattended
ML7	Luton Hoo, Central Beds	Road traffic and aircraft	None noted	Unattended
ML8	Dagnall, Aylesbury Vale	Aircraft	Road traffic, occasional gardening activities	Unattended
ML9	Markyate, Dacorum	Aircraft	None noted	Unattended
ML10	Caddington, Central Beds	Road traffic	Aircraft, birdsong	Unattended
ML11	Woodside, Central Beds	Birdsong	Conversation, aircraft, road traffic	Unattended
ML12	Front Street, Slip End, Luton	Road traffic	Aircraft, processing plant at McClaid Screening	Unattended
ML13	Strathmore Avenue, Luton	Aircraft	Road traffic	Unattended
)ML14	Vauxhall Way, Luton	Road traffic	None noted	Unattended
ML15	Eaton Green Road, Luton	Road traffic	Aircraft	Unattended
ML16	Malthouse Green, Luton	Aircraft	Road traffic	Unattended
ML17	Kensworth, Central Beds	Road traffic	Aircraft	Unattended
ML18	Stevenage	Aircraft and road traffic	Occasional dog barking	Unattended

Location	Details	Primary Sound Sources	Secondary Sound Sources	Measurement Format
ML19	Flamstead, Dacorum	Aircraft	Road traffic, occasional gardening activities	Unattended
ML20	Jockey End, Dacorum	Aircraft	Occasional gardening activities	Unattended
ML21	Preston, North Herts	Road traffic	Aircraft	Unattended
ML22	Holywell, Central Beds	Aircraft	Occasional gardening activities	Unattended
ML23	A602 Stevenage Road, North Herts	Road traffic	Pedestrians	Attended
ML24	Hitchin Road, Luton	Road traffic	None	Attended
ML25	A505 Beech Hill, North Herts	Road traffic	Pedestrians	Attended
ML26	A1081 London Road, Central Beds	Road traffic	None	Attended
ML27	A505 Hatters Way, Luton	Road traffic	Pedestrians	Attended
ML28	A6 New Bedford Road, Luton	Road traffic	Birdcall	Attended
ML29	B653 Lower Harpenden Road, Central Beds	Road traffic	Occasional train passbys	Attended
ML30	Pitstone, Aylesbury Vale	Aircraft	Road traffic, occasional gardening activities	Unattended
ML31	St Pauls Walden, North Herts	Aircraft	Road traffic, occasional gardening activities	Unattended
ML37	Breachwood Green JMI School	Aircraft	Road traffic, birdsong, school activities	Unattended
ML41	Brick Kiln Lane, Luton	Road traffic	Road traffic, aircraft, birdsong	Unattended
ML42	Chalk Hill, Luton	Road traffic	Road traffic, aircraft, birdsong	Attended

Location	Details	Primary Sound Sources	Secondary Sound Sources	Measurement Format
ML43	Wandon End, Luton	Aircraft	Dog barking, road traffic, aircraft, birdsong	Attended
ML44	Stony Lane, Luton	Aircraft	Road traffic, aircraft, birdsong	Attended

- Monitoring location numbering aligns with assessment locations (see **Table 16.22** of **Chapter 16** of the ES **[TR020001/APP/5.01]**). Consequently, there is no ML32, ML33, ML34, ML35, ML36, ML38, ML39 or ML40, which are schools that were considered important to assess individually in the air noise assessment. Noise monitoring was undertaken at Breachwood Green JMI School (ML37) following a specific request from the school.
- 6.1.3 There is no ML6 monitoring location as the location that was originally identified at Rush Green was found to be industrial during site visits. Consequently, ML6 was removed, and the original monitoring location numbering was retained.

#### 7 NOISE SURVEY SHEETS

Noise survey sheets that were completed at the start and end of unattended monitoring and during attended monitoring are presented in **Figure 7.5** to **Figure 7.44**. At some locations, meters were returned for a second period of monitoring after analysis showed that data had not been measured for a sufficient period of time. Consequently, there are two survey sheets at these locations.

#### **GLOSSARY AND ABBREVIATIONS**

Term	Definition
ES	Environmental Statement
LLAOL	London Luton Airport Operations Limited
LOAEL	Lowest Observed Adverse Effect Level
SEL	Sound Exposure Level

Figure 7.1: Weather Data from 23<sup>rd</sup> August to 2<sup>nd</sup> November 2018

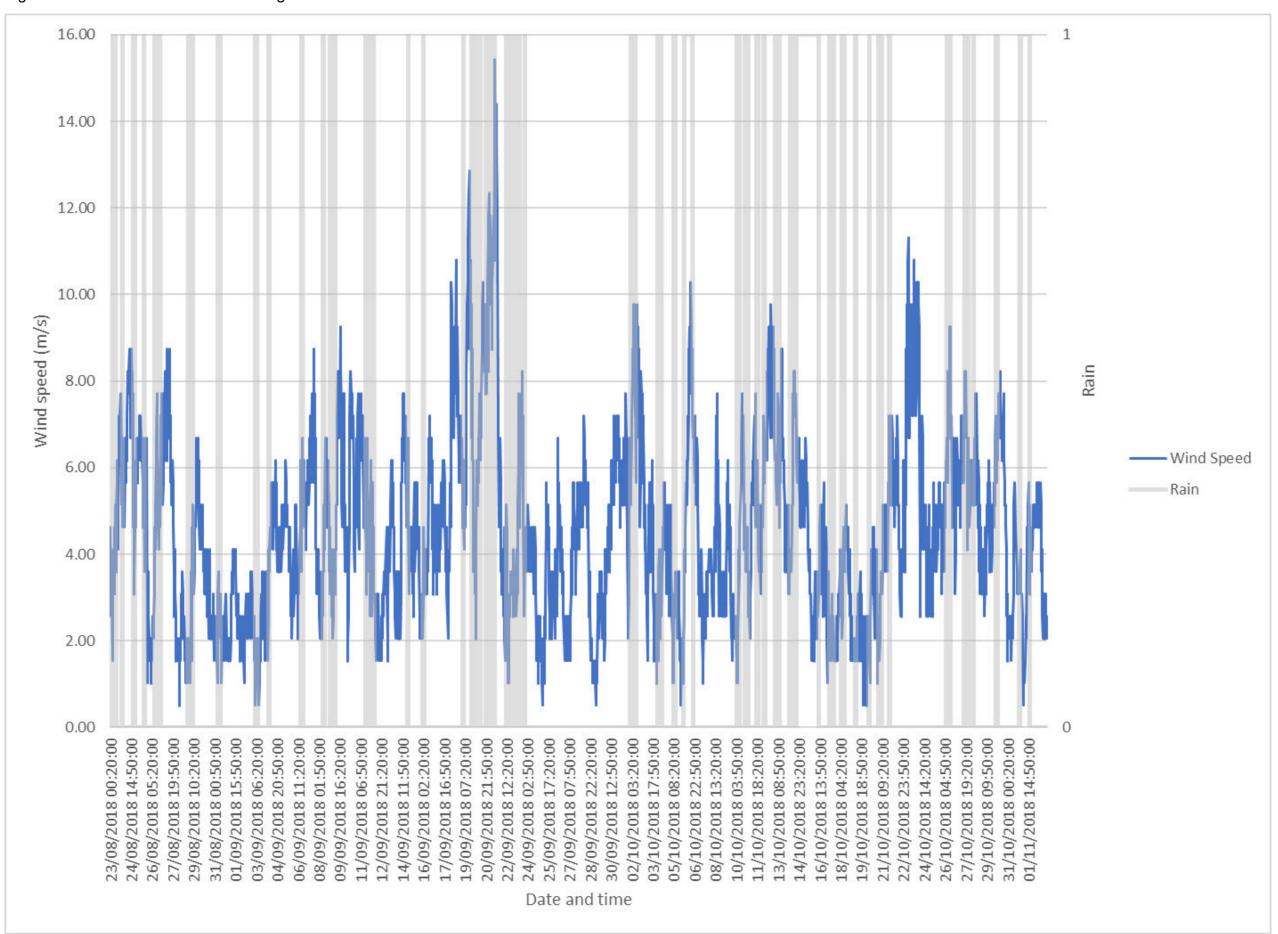


Figure 7.2: Weather Data from 16th April to 23rd May 2019

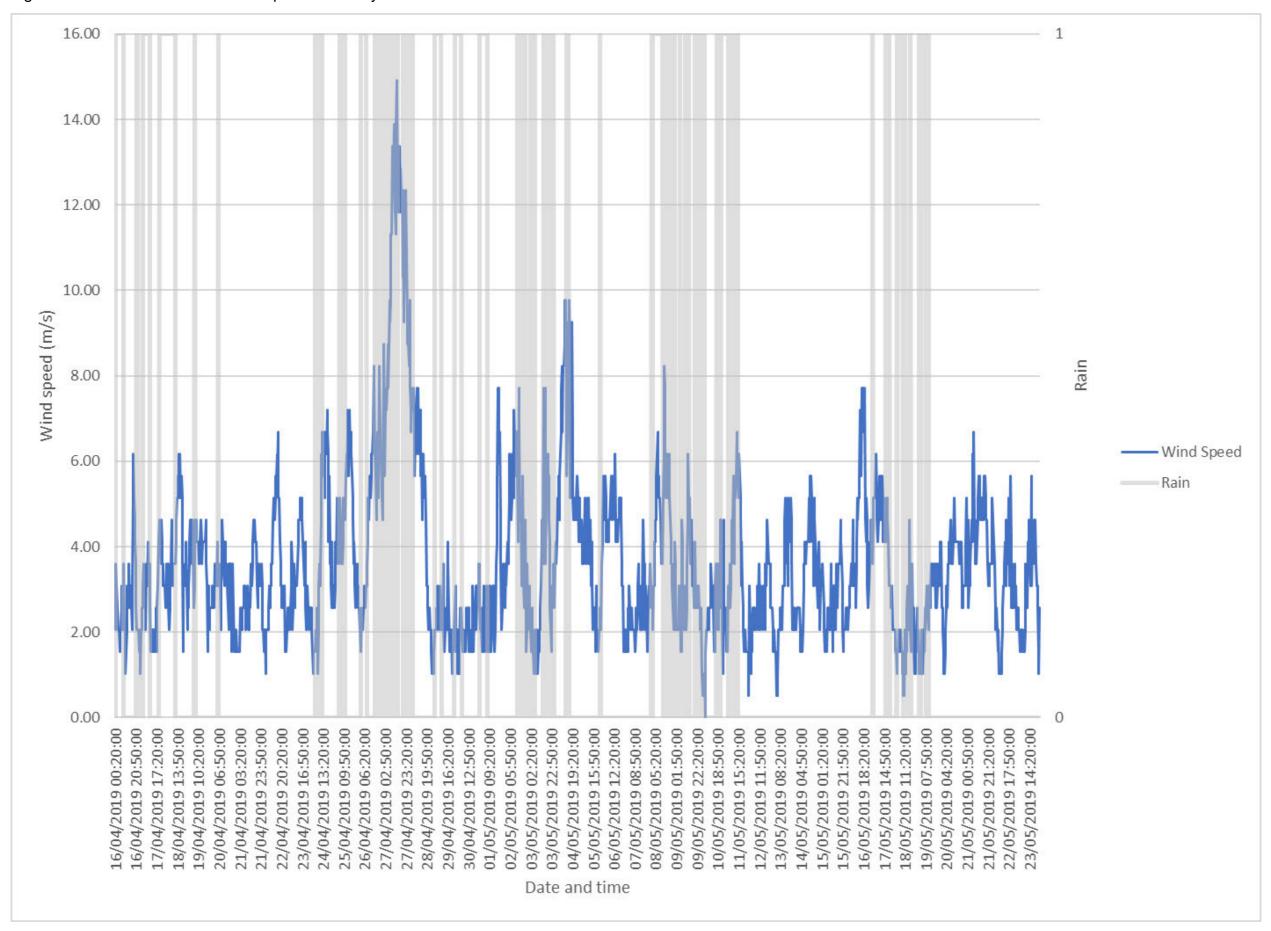


Figure 7.3: Weather Data from 1st February to 31st March 2020

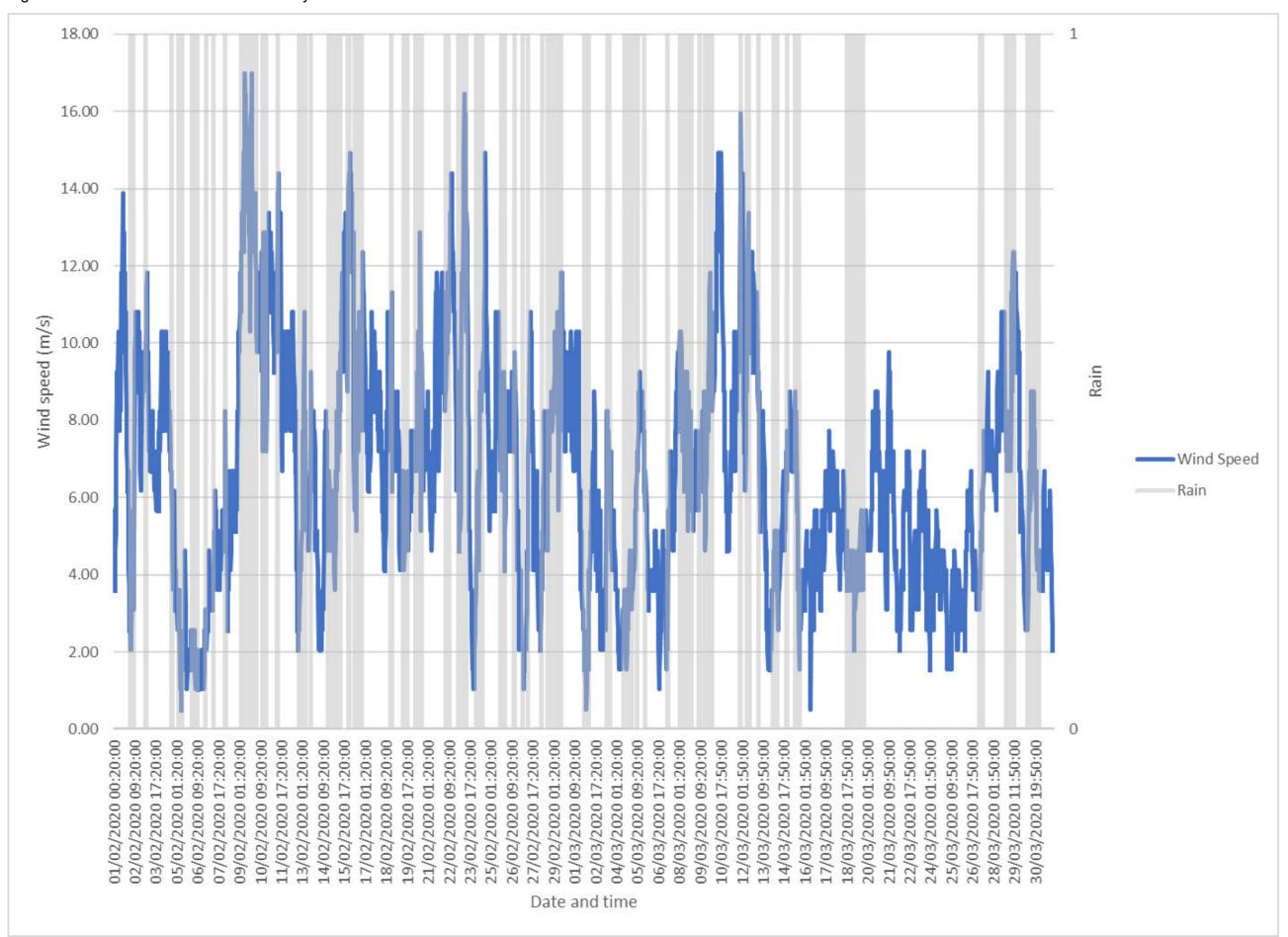


Figure 7.4: Weather Data from 13th July to 21st July 2021

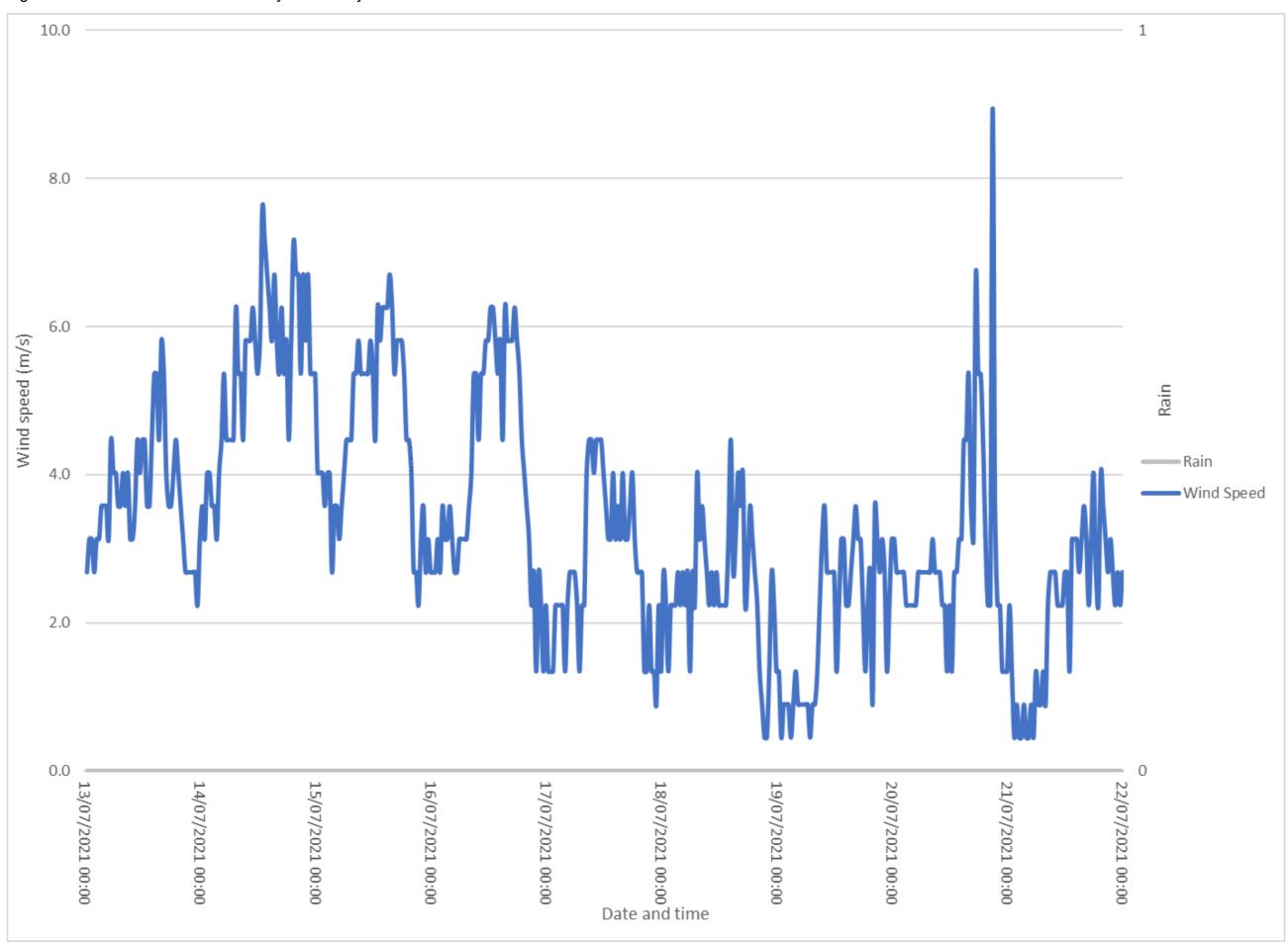
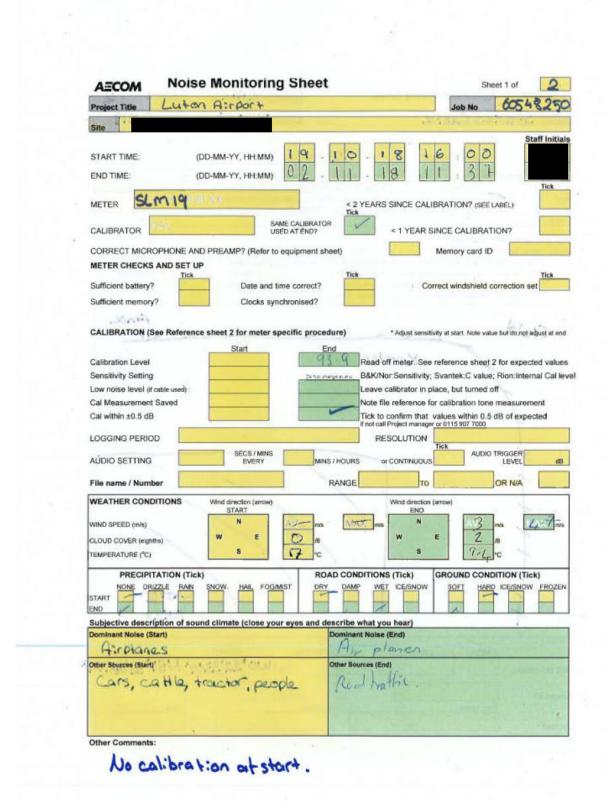
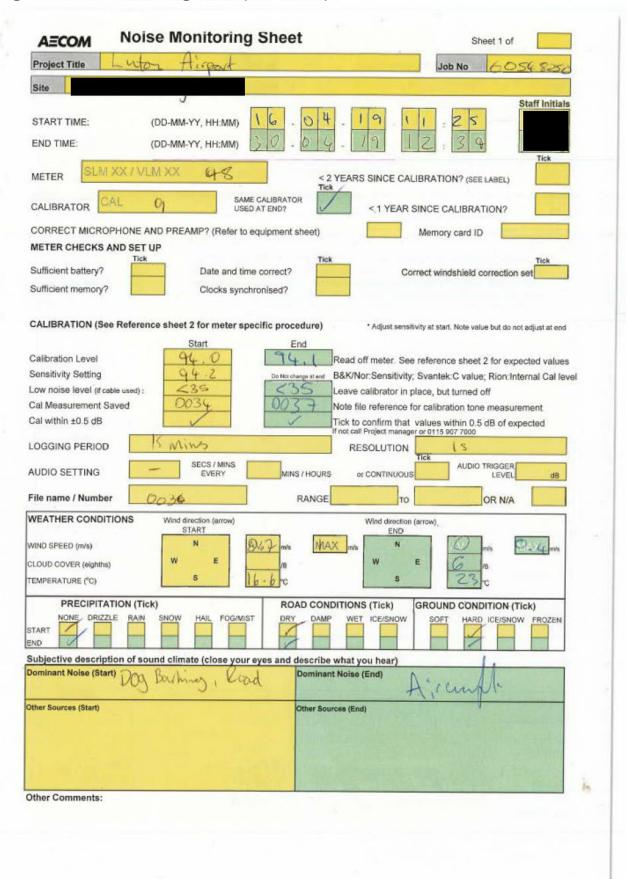


Figure 7.5: ML1 Monitoring Sheet (two sheets)



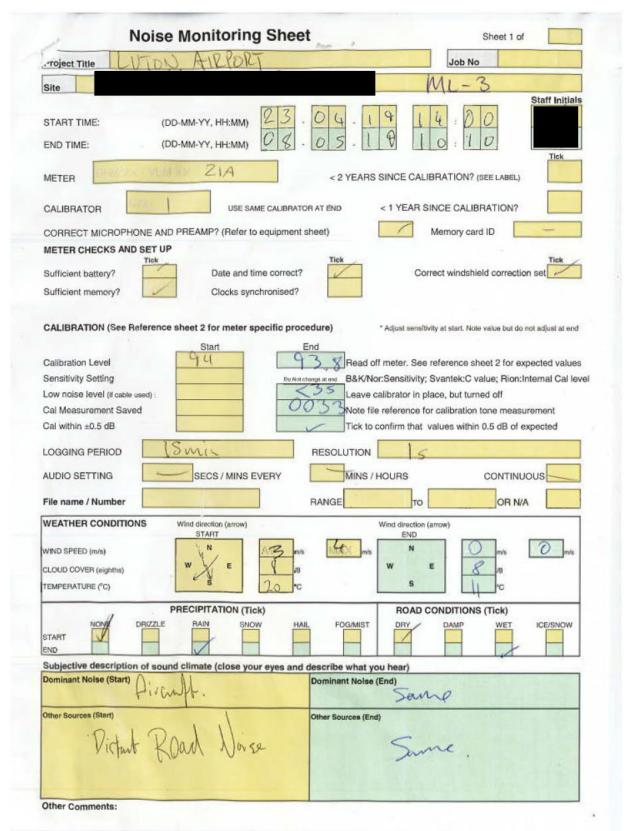
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Figure 7.6: ML2 Monitoring Sheet (two sheets)



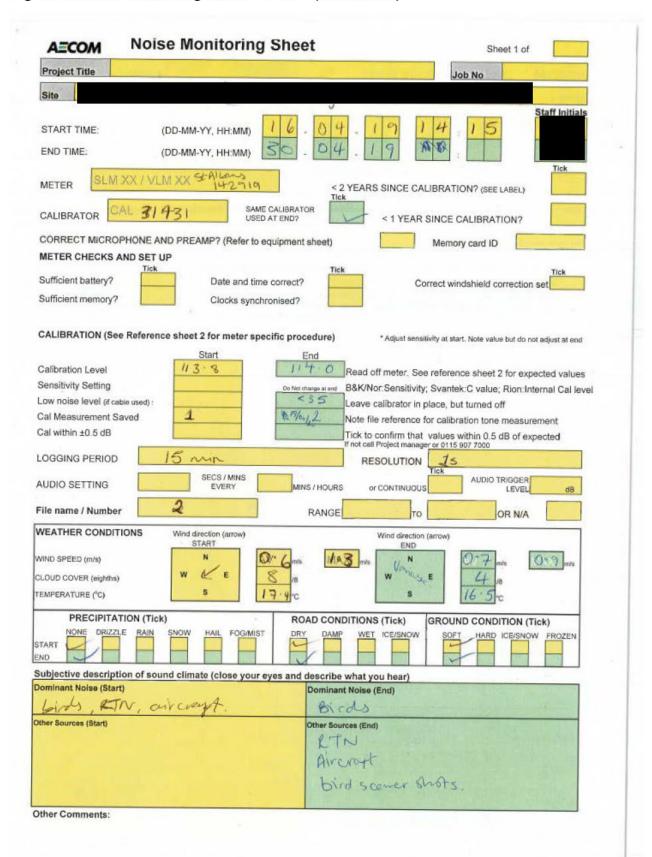
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Figure 7.7: ML3 Monitoring Sheet (two sheets)



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Figure 7.8: ML4 Monitoring Sheet – Part 1 (two sheets)



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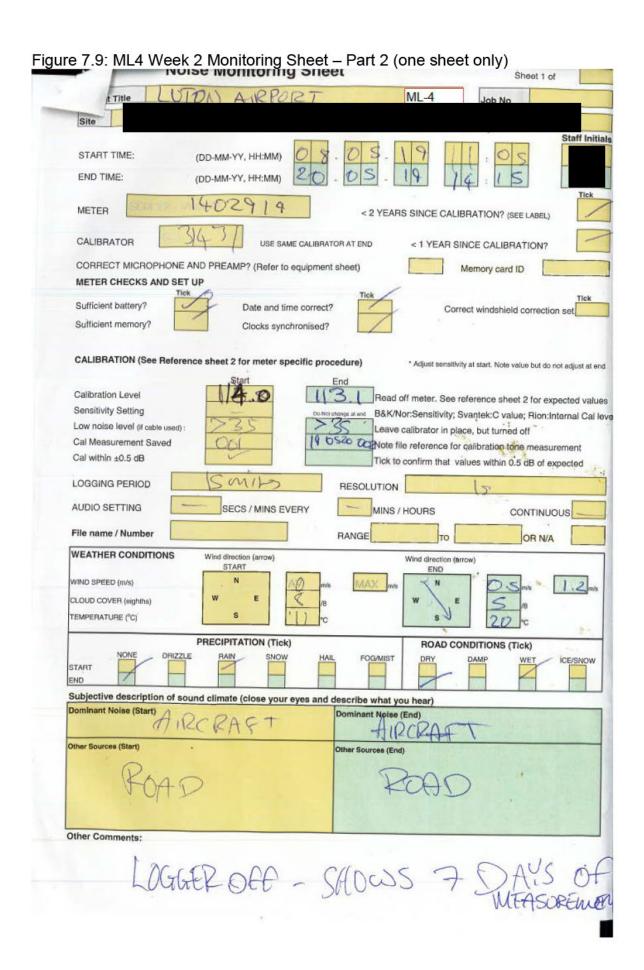
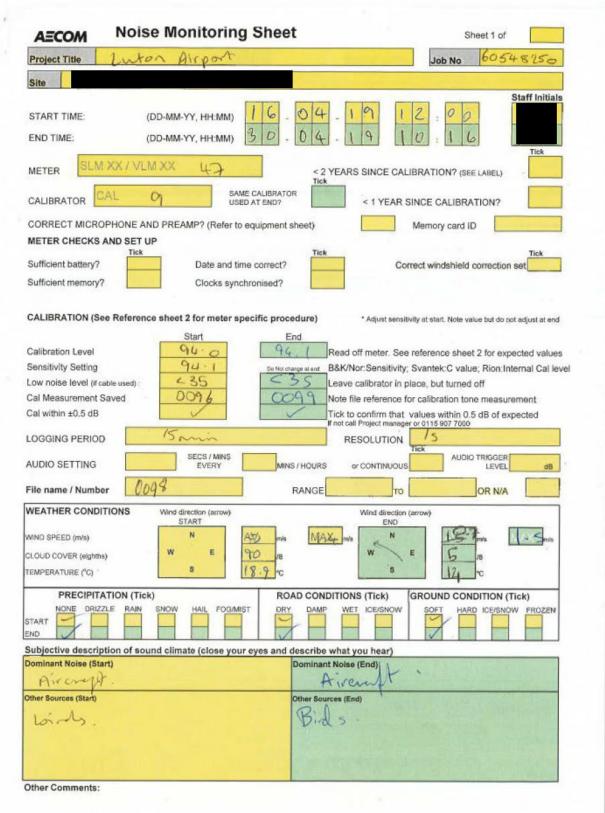


Figure 7.10: ML5 Monitoring Sheet (two sheets)



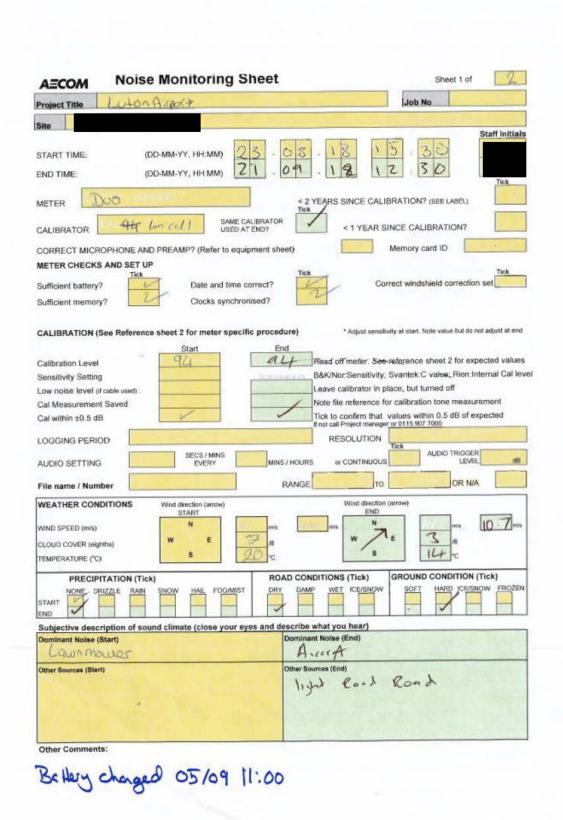
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OTHER		(EG AHU / HVAC /	SUBSTATION / CAT SCAF	ER ETC)	
OTHER Plan view sketch v					
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GP\$ Coordinates Camera ID:		219		east/west	te
GPS Coordinates Camera ID: Site staff	TL 164	219	GPS ID	Da	

**Noise Monitoring Sheet** Sheet 1 of **AECOM Project Title** Staff Initials START TIME: (DD-MM-YY, HH:MM) END TIME: (DD-MM-YY, HH:MM) METER < 2 YEARS SINCE CALIBRATION? (SEE LABEL) SAME CALIBRATOR CALIBRATOR < 1 YEAR SINCE CALIBRATION? USED AT END? CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction set Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Start Calibration Level Read off meter. See reference sheet 2 for expected values Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Low noise level (if cable used) Leave calibrator in place, but turned off Cal Measurement Saved Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected If not call Project manager or 0115 907 7000 Cal within ±0.5 dB LOGGING PERIOD RESOLUTION AUDIO TRIGGER SECS / MINS AUDIO SETTING MINS / HOURS or CONTINUOUS RANGE OR N/A File name / Number TO WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START END 16 WIND SPEED (m/s) CLOUD COVER (eighths) TEMPERATURE (°C) PRECIPITATION (Tick) ROAD CONDITIONS (Tick) **GROUND CONDITION (Tick)** NONE DRIZZLE RAIN FOG/MIST WET ICE/SNOW HARD ICE/SNOW START Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (End) Dominant Noise (Start) Airplanes Road Traffic Other Sources (End) Other Sources (Start) 2-oad traffic Other Comments: Very close to Airport

Figure 7.11: ML7 Monitoring Sheet (two sheets)

AECOM	Noise Monitorin	ng Sheet	Project	Luten	Sheet 2 of 2
Site			Date O	4/10/18	Meter &MI9
QUIPMENT LOC	EIGHT ABOVE GROUND	1-2	METRES		
IICROPHONE MOUN			OM VERTICAL SURFA	CE / FACADE ( >3.5M C	R =1Mi
RIPOD	A FRAME		T FROM SOURCE TO F		1000
MST	FENCE		OTENTIAL NOISE SOU AC / SUBSTATION / CA		
THER		I I(EG AHU / HV	AC / SUBSTATION / CA	SOAREN ETC)	
Distance t Note posit		noise sources (identifier noise sources (identifier) noterial of barriers.	all round view of sur fy)		measured measured
	Cairport				TN
	, ,	-			
	/				
		Thee meler			
)		/		Thees	
	1			2	
		Path			
	2 letters 5 num	bers	5 numbers	east/west	north/south
GPS Coordinates			or C	P23'28.55"	51052'06.27
20-01-0-7700-0-				a.	7
Camera ID:	Print name		GPS ID		Date
	T THE HAITIE		Signature .		D'atto
Site staff					

Figure 7.12: ML8 Monitoring Sheet (two sheets)



AECOM	Noise Monitoring	Sheet Project	Sheet 2 of
Site		Date 2	3(08/18 Meter
EQUIPMENT	LOCATION		
MICROPHÓN	E HEIGHT ABOVE GROUND	METRES	
MICROPHONE M	OUNTED ON (TICK)	DISTANCÉ FROM VERTICAL SURFACE	FACADE (>3.5M OR =1M)
TRIPOO	A FRAME	LINE OF SIGHT FROM SOURCE TO REC	EIVER? (Y/N)
MAST OTHER	FENCE	ACTUAL OR POTENTIAL NOISE SOURC (EG AHU / HVAC / SUBSTATION / CAT S	
OTHER		ILEG AND THEACT SUBSTATION / CAT S	CARER ETC)
Plan view ske	tch with distances.		
Mark: Meter	location	North arrow Main	audible and potential noise souces
Photo	graphic direction and positions (n	neter installed and all round view of surrour	ndings)
Note n	nce to nearest roads and other no position, height and construction is	ise sources (identify)	estimate measured
Note p	position and type of ground cover	(grass, stone, shrubs etc)	estimate measured
		4	
			51.3367678,
			-0.5594692
	172002010 80 -00	1921 - 30	
	2 letters 5 number	5 numbers	east/west north/south
PS Coordinate	es	or	100
			100
amera ID:		GPS ID	
arriate to.	Print name	Signature	Data
		Signature	Date
ite staff			
te staff			

**Noise Monitoring Sheet** Sheet 1 of **AECOM Project Title** Luton Aigort Staff Initials START TIME: (DD-MM-YY, HH:MM) END TIME: (DD-MM-YY, HH:MM) 12081 METER < 2 YEARS SINCE CALIBRATION? (SEE LABEL) SAME CALIBRATOR CALL CALIBRATOR < 1 YEAR SINCE CALIBRATION? CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction set Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Start 94 Calibration Level Read off meter. See reference sheet 2 for expected values Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Low noise level (if cable used): Leave calibrator in place, but turned off Cal Measurement Saved Note file reference for calibration tone measurement Cal within ±0.5 dB Tick to confirm that values within 0.5 dB of expected not call Project manager or 0115 907 7000 LOGGING PERIOD RESOLUTION AUDIO TRIGGER SECS / MINS AUDIO SETTING MINS / HOURS or CONTINUOUS RANGE OR N/A File name / Number TO WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START END 10 WIND SPEED (m/s) -DE CLOUD COVER (eighths) S TEMPERATURE (°C) PRECIPITATION (Tick) ROAD CONDITIONS (Tick) GROUND CONDITION (Tick) FOG/MIST START Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (Start) Dominant Noise (End) Accord arcasty Other Sources (End) Other Sources (Start) Plant noise? Other Comments: GPS Coordinate: N.51°50'37.74"

w. 0° 26' 55,08"

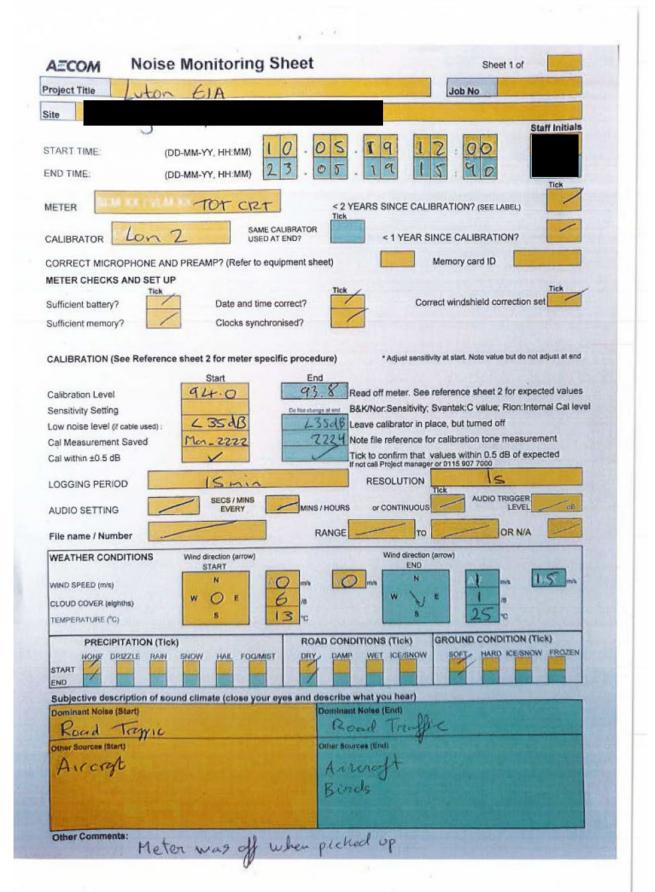
Figure 7.13: ML9 Monitoring Sheet (one sheet only)

Noise Monitoring Sheet Sheet 1 of UTON AIRPORT Project Title Job No Site Staff Initials (DD-MM-YY, HH:MM) START TIME: (DD-MM-YY, HH:MM) END TIME: TOT CRI METER < 2 YEARS SINCE CALIBRATION? (SEE LABEL) < 1 YEAR SINCE CALIBRATION? CALIBRATOR USE SAME CALIBRATOR AT END CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Correct windshield correction set Date and time correct? Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Start Read off meter. See reference sheet 2 for expected values Calibration Level Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Low noise level (it cable used): Leave calibrator in place, but turned off Note file reference for calibration tone measurement Cal Measurement Saved Cal within ±0.5 dB Tick to confirm that values within 0.5 dB of expected LOGGING PERIOD RESOLUTION CONTINUOUS AUDIO SETTING SECS / MINS EVERY MINS / HOURS File name / Number RANGE OR N/A WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START END 4 4 m/s WIND SPEED (m/s) CLOUD COVER (eighths) TEMPERATURE (°C) PRECIPITATION (Tick) ROAD CONDITIONS (Tick) DRIZZLE RAIN HAIL FOG/MIST ICE/SNOW START Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (Start) Dominant Noise (End) V.040 Other Sources (Start) Other Sources (End) Unsure why, data collected until 05/05/19 at 14:37. Other Comments: METER NOT RUNNING OI)

Figure 7.14: ML10 Monitoring Sheet – Part 1 (two sheets)

ite			Date	Meter
	ENT LOCATION		7	
	HONE HEIGHT ABOVE GROUND	7.5	METRES	
				1 1 3 -
MICROPHO TRIPOD	NE MOUNTED ON (TICK)  A FRAME		VERTICAL SURFACE / FAÇA OM SOURCE TO RECEIVER	
MAST	FENCE		NTIAL NOISE SOURCES NE	
OTHER		(EG AHU/HVAC/S	SUBSTATION / CAT SCAREF	R ETC)
OTHER				
	sketch with distances.	North commit	Maria acceli	ble and astrotici sales assess
	Neter location Photographic direction and positions (n	North arrow neter installed and all ro		ble and potential noise souces gs)
D	stance to nearest roads and other no	ise sources (identify)	20 m estim	atemeasured
N	lote position and height of acoustical t	parriers.	* estim	
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	& Con	Lyn		
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		V		1 Fenne
		1		1 tence
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	23m	1		
	4 )			
	- Jun			
	2 /111			
	274			
	2 744			
	274	220m		
		220m		
		ROAD.	umbers ea	sst/west north/south
	2 letters 5 number	ROAD 5 6n		sst/west north/south
GPS Coon	2 letters 5 number	ROAD 5 6n		sst/west north/south
GPS Coon	dinates 2 letters 5 number 0 65 7 to	ROAD 5 6n	31 or	ist/west north/south
GPS Coon	dinates 2 letters 5 number 0 65 7 to	ROAD 5 6n		ist/west north/south
Camera ID	dinates L 06571	ROAD 5 6n	GPS ID	st/west north/south
	dinates L 06571	ROAD 5 6n	GPS ID Date	

Figure 7.15: ML10 Monitoring Sheet – Part 2 (one sheet only)



Noise Monitoring Sheet Sheet 1 of UTON AIPPORT **Project Title** Site Staff Initials START TIME: (DD-MM-YY, HH:MM) END TIME: (DD-MM-YY, HH:MM) 20 A METER < 2 YEARS SINCE CALIBRATION? (SEE LABEL) CALIBRATOR USE SAME CALIBRATOR AT END < 1 YEAR SINCE CALIBRATION? CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction set Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Calibration Level Read off meter. See reference sheet 2 for expected values Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Low noise level (if cable used): Leave calibrator in place, but turned off Cal Measurement Saved Man 2001 Note file reference for calibration tone measurement Cal within ±0.5 dB Tick to confirm that values within 0.5 dB of expected LOGGING PERIOD DMIN RESOLUTION **AUDIO SETTING** SECS / MINS EVERY MINS / HOURS CONTINUOUS Seedate File name / Number RANGE OR N/A WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START 4.4 END WIND SPEED (m/s) MAD CLOUD COVER (eighths) TEMPERATURE (°C) PRECIPITATION (Tick) ROAD CONDITIONS (Tick) DRIZZLE FOG/MIST START ICE/SNOW Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (End) Other Sources (Start) Other Sources (End) Other Comments: METER WAS OFF AF PLORUP, Ran out of Battery

Figure 7.16: ML11 Monitoring Sheet – Part 1 (two sheets)

		loise M							
ě						Date		Mete	er .
UIPMI	ENT LOCAT	ON							
	HONE HEIG		GROUND			METRES			
			74	DIS	STANCE FROM \	ERTICAL SURFAC	E / FAÇADE ( >3.5	M OR =1M)	73.5
POD	ONE MOUNTED	A FRAME		LIN	E OF SIGHT FR	OM SOURCE TO R	ECEIVER? (Y/N)		
ST	/	FENCE		AC (EC	TUAL OR POTE AHU/HVAC/	NTIAL NOISE SOUR	SCARER ETC)		
HER	200								
	w sketch wi	h distance	s.					4.7	
				North	arrow	M word view of sur	lain audible and	potential no	ise souces
!	Photographic	direction a	nd positions ( is and other r	meter insta oise sourc	es (identify)	ound view of sur	estimate		measured
	Note position	and heigh	of acoustical	barriers.		1	estimate		measured
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1					?	-	T		
N	Notu!		240	h	125m	244	20 6	Status	
_	tuck	rue	1		1000	0	,6	Statu	out time
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		+	1	1	10	1		0.0	
		1	1	7	10	,		0.0	
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			-	7.	10				
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		4		Puls	Gad	er.			
		4		Puls	Gad	er			
				Pulo	Gad	er .			
				Puls	Gad	er			
				Puls	Gad	er .			
				Puls	Gad				
				Puls	Gad	er .			
		2 latture		, , ,		5 numbers	east/we		north/south
		2 letters	5 nun	, , ,			t		
GPS C	Coordinates	2 letters		, , ,			t		
GPS C		2 letters		, , ,			east/we		
		2 letters T L Signature	5 nun	, , ,		5 numbers	t		
	ra ID:	TL	5 nun	, , ,		5 numbers	east/we		
Camer	ra ID:	TL	5 nun	, , ,		5 numbers	east/we		

Figure 7.17: ML11 Monitoring Sheet – Part 2 (one sheet only)

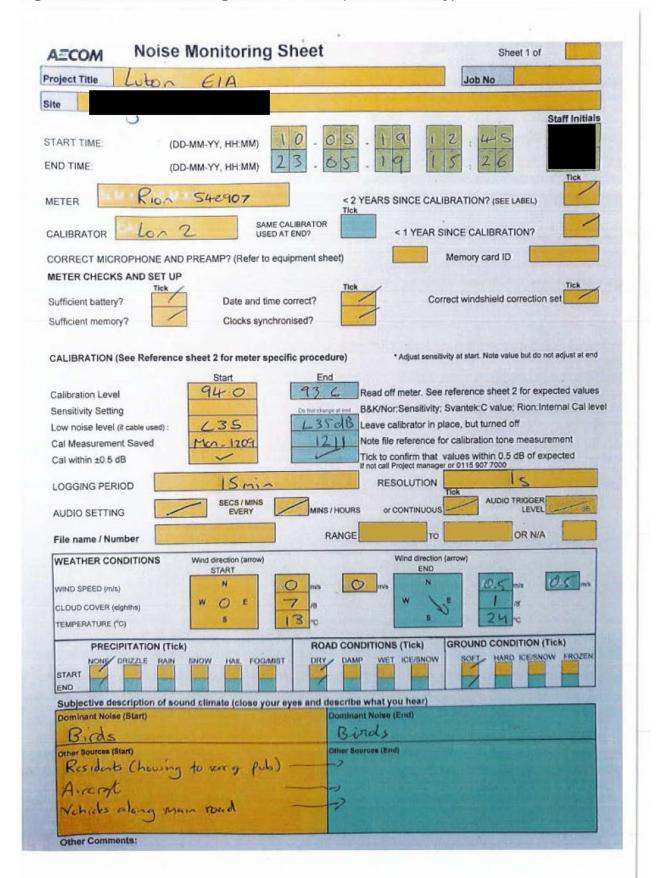


Figure 7.18: ML12 Monitoring Sheet – Part 1 (two sheets) **Noise Monitoring Sheet** Sheet 1 of MON ANRPORT **Project Title** Job No Site Staff Initials START TIME: (DD-MM-YY, HH:MM) END TIME: (DD-MM-YY, HH:MM) < 2 YEARS SINCE CALIBRATION? (SEE LABEL) METER < 1 YEAR SINCE CALIBRATION? CALIBRATOR USE SAME CALIBRATOR AT END CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction set Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Calibration Level Read off meter. See reference sheet 2 for expected values Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Low noise level (If cable used); Leave calibrator in place, but turned off Man 1209 Cal Measurement Saved Note file reference for calibration tone measurement Cal within ±0.5 dB Tick to confirm that values within 0.5 dB of expected LOGGING PERIOD RESOLUTION SECS / MINS EVERY MINS / HOURS CONTINUOUS AUDIO SETTING RANGE File name / Number TO OR N/A WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START END WIND SPEED (m/s) CLOUD COVER (eighths) TEMPERATURE (°C) PRECIPITATION (Tick) ROAD CONDITIONS (Tick) FOGMIST DAIZZLE RAIN SNOW HAIL DRY ICE/SNOW START Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (End) Other Sources (End) Other Comments: had Stopped your Richard Unsure why, data collected until 03/05/19

Cite			Date	Meter	
Site			Date	meter	
EQUIPMENT			-		
MICROPHON	IE HEIGHT ABOVE GROUND		METRES		
	(OUNTED ON (TICK)		VERTICAL SURFACE / FAÇA		23.5m
TRIPOD MAST	A FRAME FENCE		NOM SOURCE TO RECEIVER ENTIAL NOISE SOURCES NE		4
OTHER			SUBSTATION / CAT SCARE		
OTHER					
	etch with distances.	North arrow	Main audi	ble and potential noise	SOLICAS
Mark: Meter Photo	riocation ographic direction and positions (mete	er installed and all re	ound view of surrounding	gs)	300003
Distar	nce to nearest roads and other noise	sources (identify)	4 <sub>m</sub> estim	ate	measured
Note	position and height of acoustical barr	ners.		ate	measured
					ALS: 1
					Trees
					Thees
			1		
	' /	0			
		- gr	0		
		d t			
		1 4 m			
		hy m			
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		V			
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		V			
		V			
		V			
		V			
		V			
		V			
		V			
		V			
		V			north/south
	2 letters 5 numbers	5	numbers e	ast/west	north/south
GPS Coordina	11 0038	V	numbers e	ast/west	north/south
	11 0038	5	numbers e	ast/west	north/south
	11 0038	5	numbers e	ast/west	north/south
GPS Coordina Camera ID:	tc 0838	5	numbers ea	ast/west	north/south
	tc 0838	5	numbers ea	ast/west	north/south

OR N/A

**GROUND CONDITION (Tick)** 

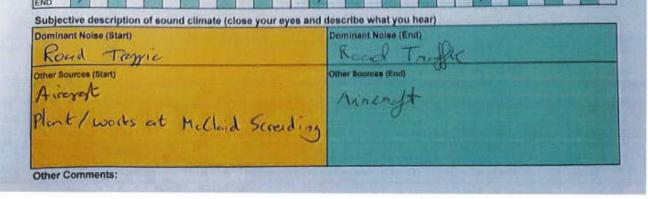
Noise Monitoring Sheet A=COM Sheet 1 of Project Title EIA Job No Site Staff Initials START TIME: (DD-MM-YY, HH:MM) END TIME (DD-MM-YY, HH:MM) SLM 19 METER < 2 YEARS SINCE CALIBRATION? (SEE LABEL) SAME CALIBRATOR CALIBRATOR USED AT END? < 1 YEAR SINCE CALIBRATION? CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction set Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Start 94.0 Calibration Level Read off meter. See reference sheet 2 for expected values Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Low noise level (if cable used) 135 dB Leave calibrator in place, but turned off Cal Measurement Saved 104 Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected if not call Project manager or 0115 907 7000 Cal within ±0.5 dB 15 LOGGING PERIOD RESOLUTION SECS / MINS MINS / HOURS or CONTINUOUS **AUDIO SETTING EVERY** LEVEL

Figure 7.19: ML12 Monitoring Sheet – Part 2 (one sheet only)

Wind direction (arrow) START

0

FOG/MIST



RANGE

0

**ROAD CONDITIONS (Tick)** 

TO

Wind direction (arrow)

END

8

File name / Number

WIND SPEED (m/s)

TEMPERATURE (°C)

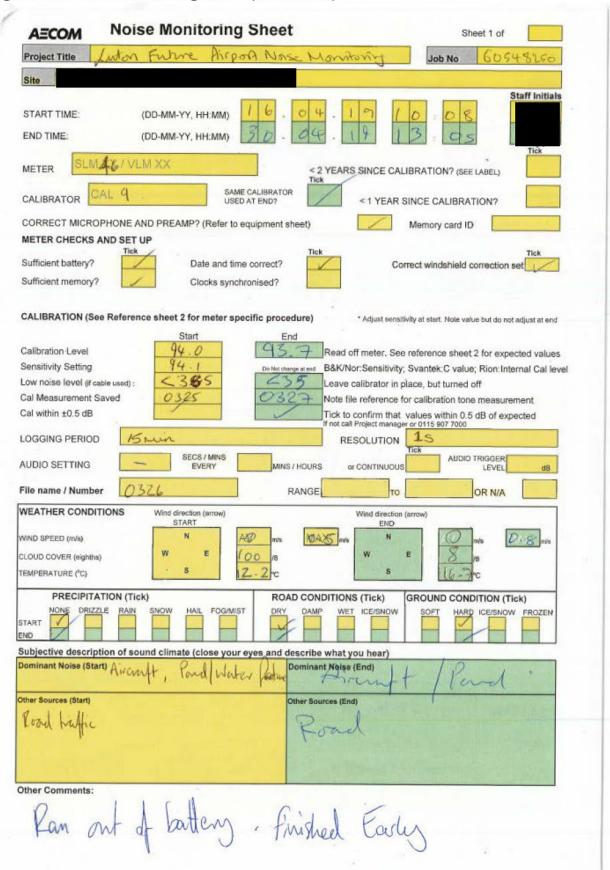
START

CLOUD COVER (eighths)

PRECIPITATION (Tick)

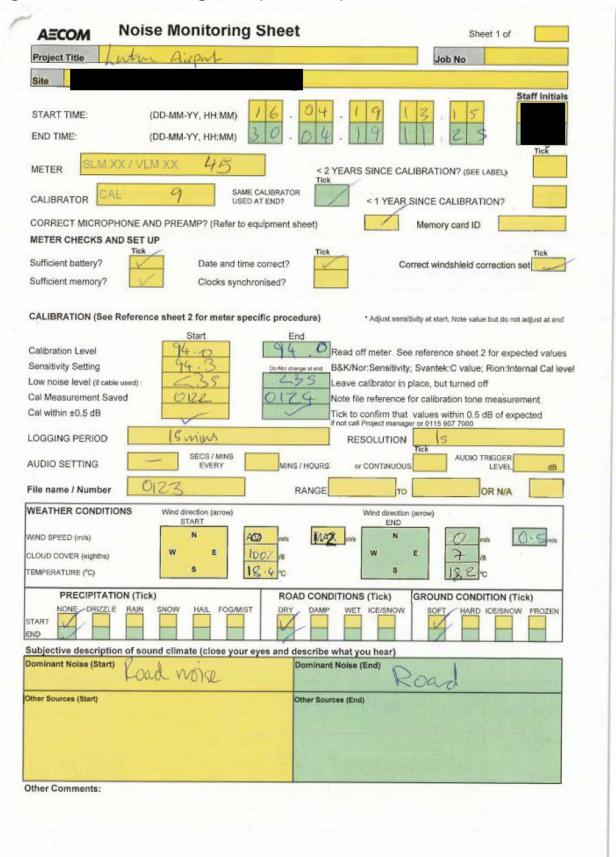
WEATHER CONDITIONS

Figure 7.20: ML13 Monitoring Sheet (two sheets)



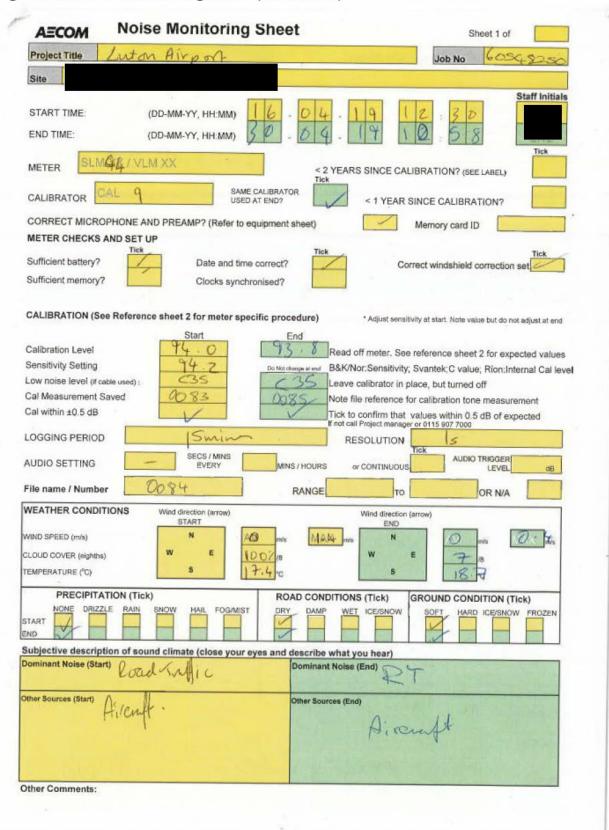
AECOM	Noise Monitoring She	eet Project		Sheet 2 of
Site		Date		Meter
EQUIPMENT LO	CATION			
MICROPHONE H	EIGHT ABOVE GROUND	, S METRES		
MICROPHONE MOUN		DISTANCE FROM VERTICAL SURFAC		-1M) 23.5
RIPOD AAST	A FRAME FENCE	LINE OF SIGHT FROM SOURCE TO R ACTUAL OR POTENTIAL NOISE SOUR		Ascraft + Pa
OTHER	16102	(EG AHU / HVAC / SUBSTATION / CAT		Package + 100
OTHER				
Note posi	to nearest roads and other noise so tion, height and construction mater tion and type of ground cover (gras	rial of barriers. Glux	estimate estimate	measured measured
Cross (	Small fish Pond 1x	3m	) he d	
Career (	Small fish Pond 1x	0	) he d	
Cases.	Small fish Pond 1x	3m	) he d	
Career (	Small fish Pond 1x	3m	east/west	north/south
GPS Coordinates	Small fish Pond /	3m ) Satu fontain		north/south
GPS Coordinates	Small fish Pond 1	3m  Data fontain  5 numbers  2011 b or		north/south
	Small fish Pond 1	3m  Salta fontinh		north/south  Date

Figure 7.21: ML14 Monitoring Sheet (two sheets)



AECOM Noise Monitoring S	Sheet Project	Sheet 2 of
Site	Date	Meter
EQUIPMENT LOCATION		
MICROPHONE HEIGHT ABOVE GROUND	1.5 METRES	
MICROPHONE MOUNTED ON (TICK)	DISTANCE FROM VERTICAL SURFACE / FAÇAI	
TRIPOD A FRAME MAST FENCE	LINE OF SIGHT FROM SOURCE TO RECEIVER ACTUAL OR POTENTIAL NOISE SOURCES NEA	
OTHER	(EG AHU / HVAC / SUBSTATION / CAT SCARER	ETC)
Plan view sketch with distances.		
Mark: Meter location	North arrow Main audit eter installed and all round view of surrounding	ole and potential noise souces
Distance to nearest roads and other nois	e sources (identify)	ate measured
Note position, height and construction m Note position and type of ground cover (		atemeasured
Chuly fe	1440	
Thurs to	wų	
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4		
119		
1 51	(Tuee)	
( C		
628		
7	-	
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1		
21/4 5	E pumbare .	ast/west north/south
GPS Coordinates 7 110		aşı neşi (1010)/50001
GPS Coordinates	- 012 or	
Camera ID:	GPS ID	
Print name	Signature	Date ////
Site staff		16/4/19
20.00		
QA checked		

Figure 7.22: ML15 Monitoring Sheet (two sheets)



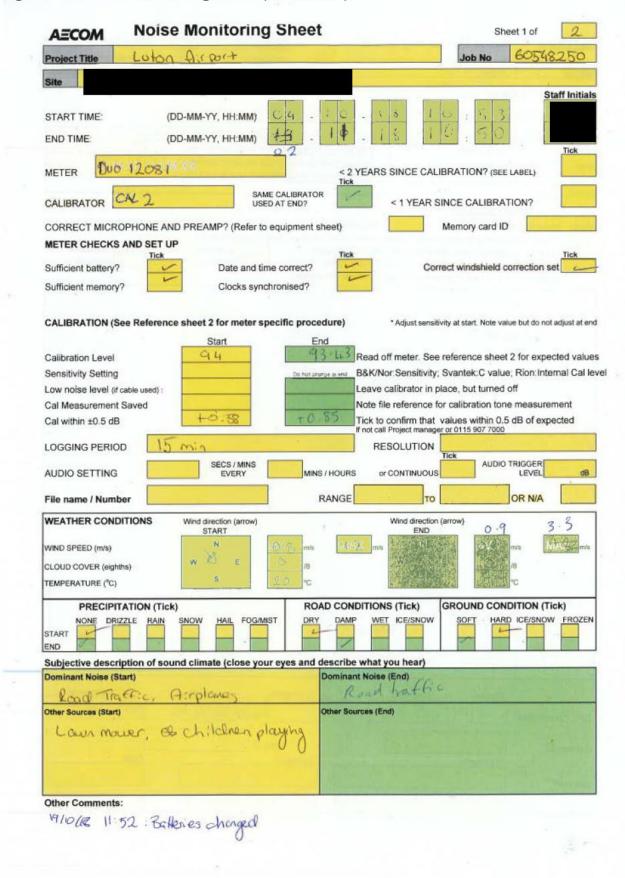
AEC	MO	Noise Monitori	ng Sheet	Project	Shee	t 2 of
ite				Date	Meto	r
QUIP	MENT LOCA	ATION				
MICRO	PHONE HE	IGHT ABOVE GROUND		METRES		
MICROPH	HONE MOUNT	7		ROM VERTICAL SURFACE / FAC		Tur
TRIPOD	/	A FRAME FENCE		HT FROM SOURCE TO RECEIVE POTENTIAL NOISE SOURCES N		
OTHER				VAC / SUBSTATION / CAT SCAR		
OTHER						
	Meter locat Photograph Distance to Note position	with distances.  ition  nic direction and position  nearest roads and othe  on, height and construct  on and type of ground or	er noise sources (ident tion material of barriers	all round view of surround ify) esting estin	dible and potential no ings) mate mate	measured measured
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GPS (	Coordinates	TL 118	27	0 or		
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ganto	TW.	Print name		Signature	Da	te / /
-	Mat		Action 1		10	0/4/14
Site st	ldii					1111

Figure 7.23: ML16 Monitoring Sheet (two sheets) **Noise Monitoring Sheet** Sheet 1 of UTON AIRPORT Job No **Project Title** Site Staff Initials (DD-MM-YY, HH:MM) START TIME: (DD-MM-YY, HH:MM) END TIME: Tick < 2 YEARS SINCE CALIBRATION? (SEE LABEL) METER < 1 YEAR SINCE CALIBRATION? CALIBRATOR USE SAME CALIBRATOR AT END CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction set Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Start Calibration Level Read off meter. See reference sheet 2 for expected values Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Leave calibrator in place, but turned off Low noise level (if cable used) : Cal Measurement Saved Note file reference for calibration tone measurement Cal within ±0.5 dB Tick to confirm that values within 0.5 dB of expected RESOLUTION LOGGING PERIOD AUDIO SETTING SECS / MINS EVERY MINS / HOURS CONTINUOUS RANGE File name / Number OR N/A WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START WIND SPEED (m/s) CLOUD COVER (eighths) S TEMPERATURE (°C) PRECIPITATION (Tick) **ROAD CONDITIONS (Tick)** DRIZZLE **FOG/MIST** ICE/SNOW WET START Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (Start) Aucres Soure soul Dominant Noise (End) Other Sources (Start) Other Sources (End)

Other Comments:

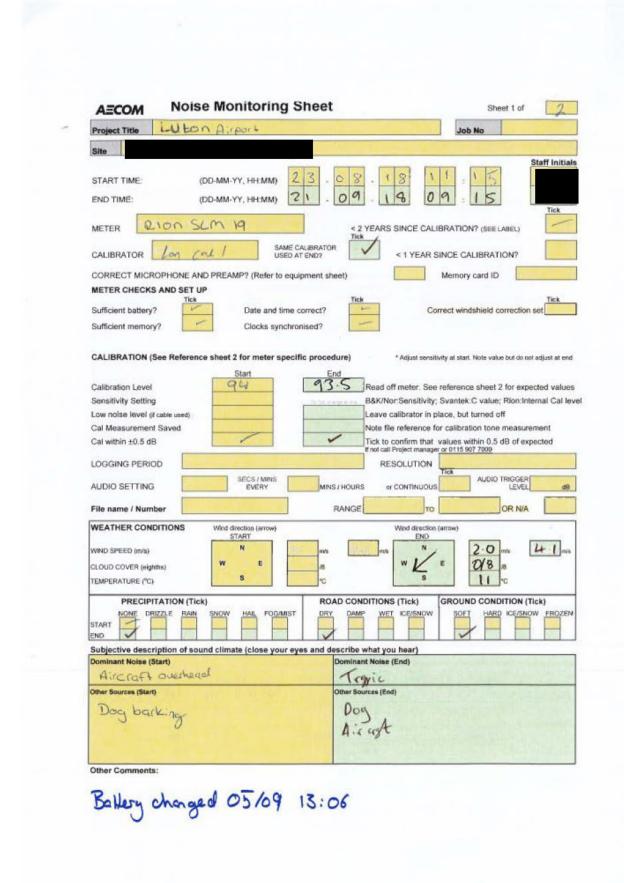
ite		Date	Meter
QUIPMENT LO	1000		
	HEIGHT ABOVE GROUND	METRES .	
CROPHONE MOUT RIPOD AST THER THER	A FRAME LINE FENCE ACTU	ANCE FROM VERTICAL SURFACE / FAÇADE (>3 OF SIGHT FROM SOURCE TO RECEIVER? (V/N) JAL OR POTENTIAL NOISE SOURCES NEARBY? AHU / HVAC / SUBSTATION / CAT SCARER ETC)	.5M OR =1M)
lark: Meter loc Photogra	phic direction and positions (meter installe	ed and all round view of surroundings)	d potential noise souces
	to nearest roads and other noise sources ition and height of acoustical barriers.	(identify) Sumestimate estimate	measured
Hunce	Hurse		
P	white		
	7		Sara
	) (26m)	1 avery	
0		2 Dun	
	Themes Wate	r land	
PS Coordinates	2 letters 5 numbers	ZZ3Z+ or east/wes	st north/south
amera ID:	Signature	GPS ID Date	
		23/4	- 119

Figure 7.24: ML17 Monitoring Sheet (two sheets)



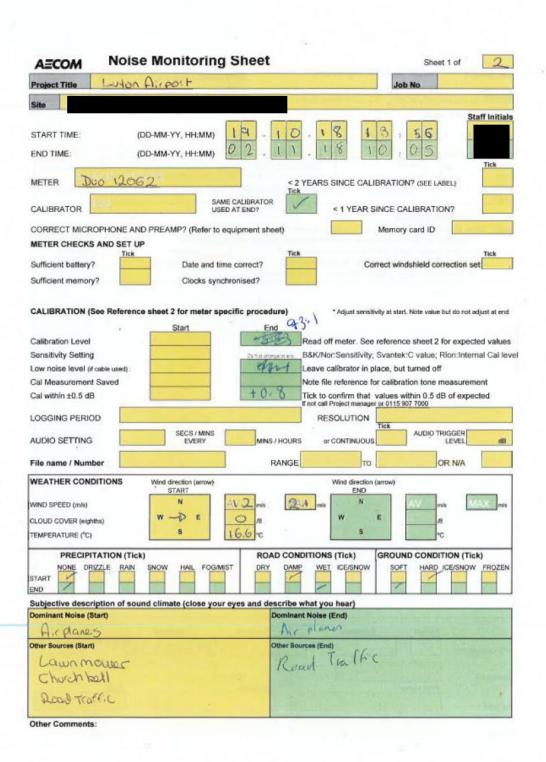
Cito				Date	04/10/	18	Meter D	UO 1208
Site								
EQUIPMENT LO								
MICROPHONE	HEIGHT ABOVE (	GROUND	(-)					
MICROPHONE MO					SURFACE / FAÇAD		1M)	
TRIPOD MAST	A FRAME FENCE				CE TO RECEIVER? SE SOURCES NEAF			
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Figure 7.25: ML18 Monitoring Sheet (two sheets)



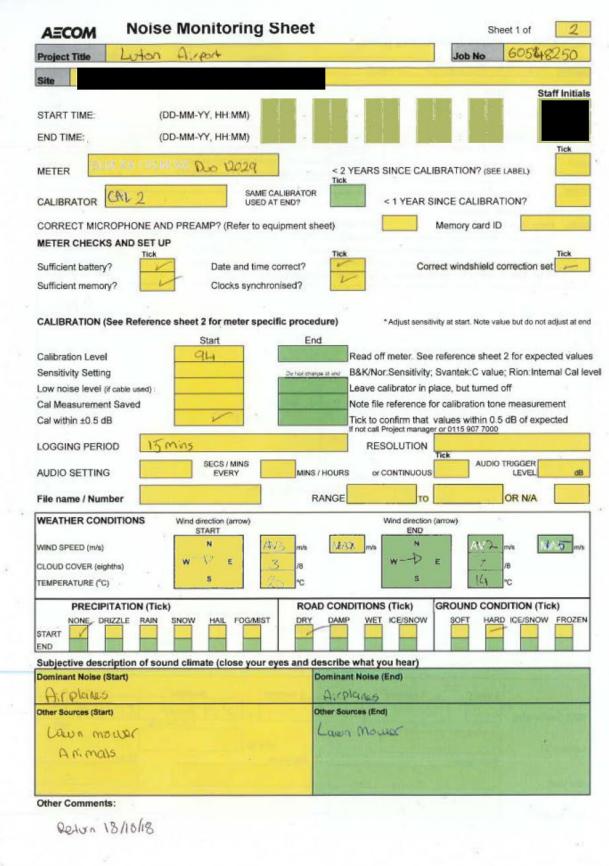
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Figure 7.26: ML19 Monitoring Sheet (two sheets)



Site					Dat	- 1	9/10/18	Meter	D
	-				Dat	,	110110	anete	
EQUIP	MENT LO	CATION							
MICRO	PHONE H	EIGHT ABOVE G	SROUND		METRES				
MICROF	HONE MOU	NTED ON (TICK)	4	DISTANCE	FROM VERTICAL	SURFACE	/ FAÇADE ( >3.5)	M OR =1M)	
TRIPOD		AFRAME		-	IGHT FROM SOUR				
MAST	1	FENCE			R POTENTIAL NOI HVAC / SUBSTATI				
OTHER									
Mark:	Photogra Distance Note pos	cation  phic direction and to nearest roads ition, height and c ition and type of g	and other noise construction ma	sources (ider terial of barrie	ntify) rs.		n audible and pundings) estimate estimate	potential nois	meas meas
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					4				
		2 letters	5 numbers		5 numbers		east/west		
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			5 numbers		GPS				
			5 numbers					94 \ 51	
GPS C Camero	a ID:		5 numbers		GPS				north/s

Figure 7.27: ML20 Monitoring Sheet (two sheets)



Site				Date	04/10/18	Meter Duo Do
EQUIPMENT LO	CATION					
MICROPHONE I	HEIGHT ABOVE GR	OUND	1.9	METRES		
MICROPHONE MOL	INTED ON (TICK)		DISTANCE FROM	M VERTICAL SUR	FACE / FAÇADE ( >3.5	M OR ≈1M)
TRIPOD -	A FRAME		LINE OF SIGHT I	FROM SOURCE 1	O RECEIVER? (Y/N)	
MAST OTHER	FENCE		The state of the s		OURCES NEARBY? CAT SCARER ETC)	
OTHER						
Mark: Meter loo Photogra Distance Note pos	h with distances. cation aphic direction and p to nearest roads an sition, height and cor sition and type of gro	ositions (meter d other noise s astruction mate	ources (identify) rial of barriers.		Main audible and psurroundings) estimate estimate	measured measured
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			Thea of the characters of the characters			
			Theo			
			Theo	& to post		
	2 letters	5 numbers	metes attached	& to post	east/west	north/south
PS Coordinates	2 letters	5 numbers	metes attached	of to post		north/south
	2 letters Print name	5 numbers	These 80 metes attached	numbers or  GPS ID	east/west	51°48'39.88"
GPS Coordinates Camera ID:		5 numbers	These 80 metes attached	a to post	east/west	

Figure 7.28: ML21 Monitoring Sheet (two sheets) Noise Monitoring Sheet Sheet 1 of UTON AIRPORT **Project Title** Site Staff Initials START TIME: (DD-MM-YY, HH:MM) END TIME: (DD-MM-YY, HH:MM). METER < 2 YEARS SINCE CALIBRATION? (SEE LABEL) CALIBRATOR USE SAME CALIBRATOR AT END < 1 YEAR SINCE CALIBRATION? CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction se Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Calibration Level Read off meter. See reference sheet 2 for expected values Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Low noise level (if cable used) : Leave calibrator in place, but turned off Cal Measurement Saved Note file reference for calibration tone measurement Cal within ±0.5 dB Tick to confirm that values within 0.5 dB of expected LOGGING PERIOD RESOLUTION AUDIO SETTING SECS / MINS EVERY MINS / HOURS CONTINUOUS File name / Number RANGE OR N/A WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START END WIND SPEED (m/s) CLOUD COVER (eighths) TEMPERATURE (°C) S PRECIPITATION (Tick) **ROAD CONDITIONS (Tick)** DRIZZLE SNOW RAIN FOG/MIST ICE/SNOW START Subjective description of sound climate (close your eyes and describe what you hear) Other Comments:

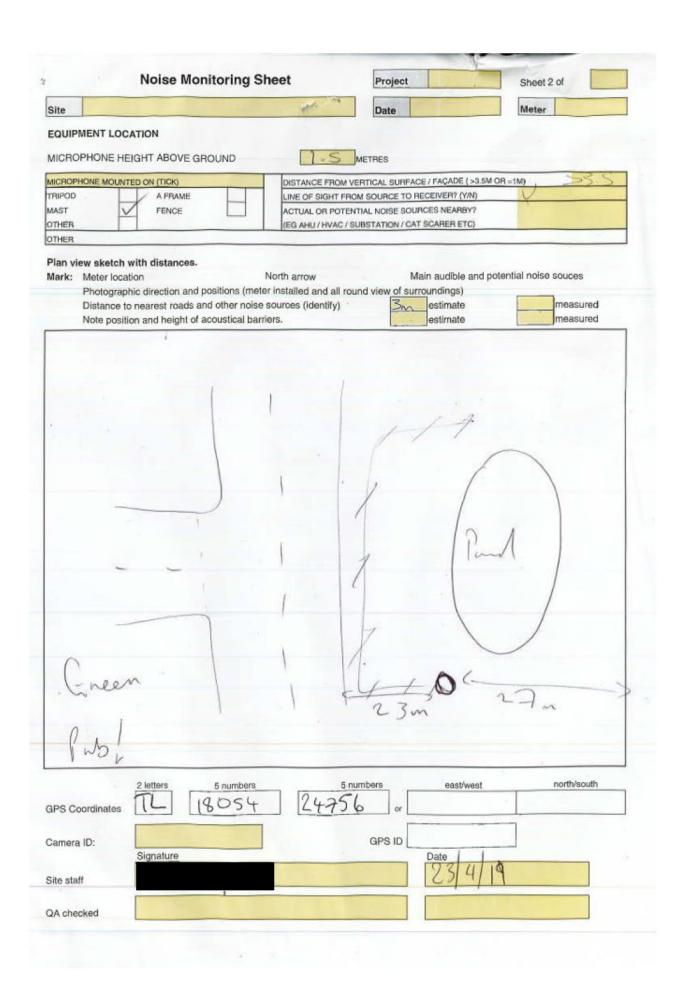


Figure 7.29: ML22 Monitoring Sheet (one sheet only)

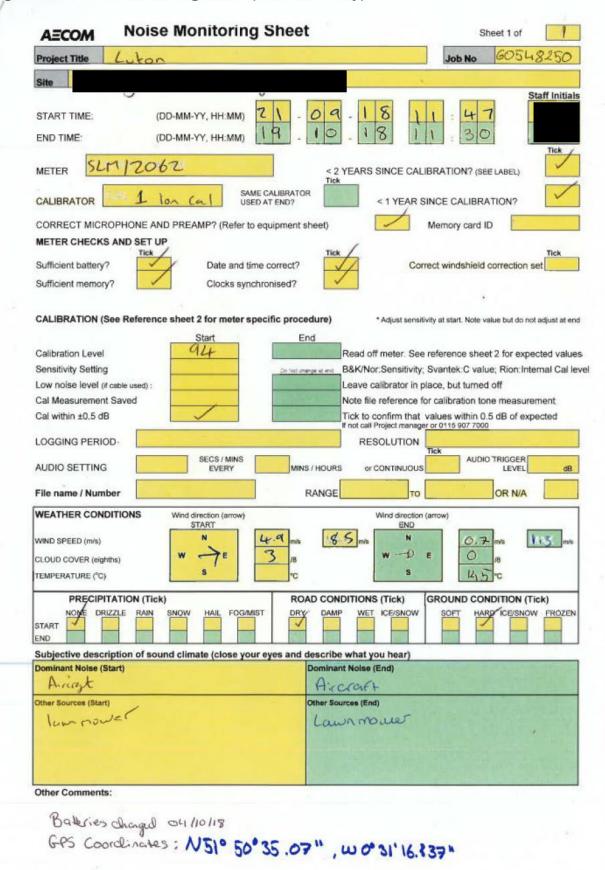
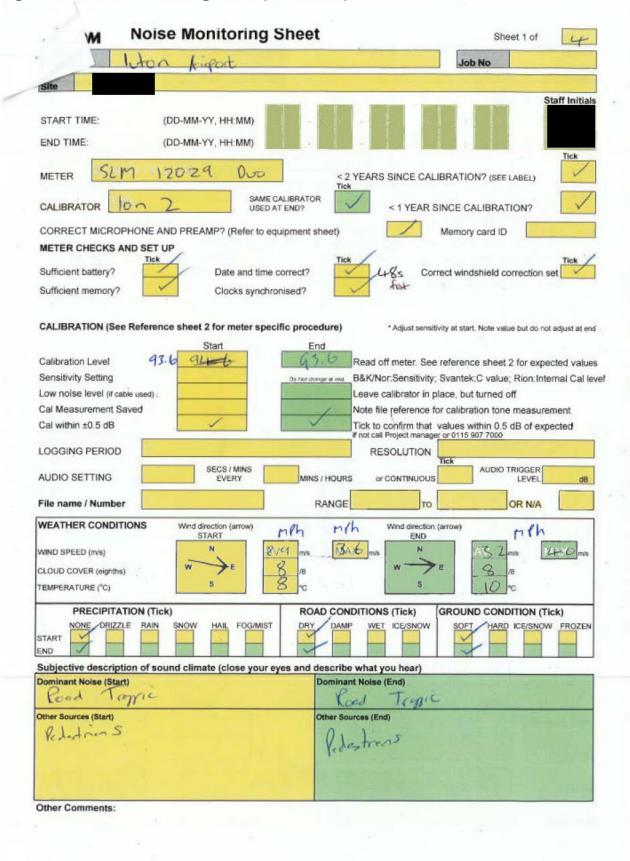


Figure 7.30: ML23 Monitoring Sheet (two sheets)



AECOM Noise Monitoring	g Sheet	Project		Sheet 2 of
Site		Date 02	110/18	Meter 1702a
EQUIPMENT LOCATION				
MICROPHONE HEIGHT ABOVE GROUND	14	METRES		
MICROPHONE MOUNTED ON (TICK)  TRIPOD A FRAME  MAST FENCE  OTHER  OTHER	LINE OF SIGHT FRO ACTUAL OR POTEN	ERTICAL SURFACE / I DM SOURCE TO RECE TIAL NOISE SOURCE UBSTATION / CAT SC	IVER? (Y/N) S NEARBY?	=1M) >3.52 No
Plan view sketch with distances.  Mark: Meter location Photographic direction and positions ( Distance to nearest roads and other n Note position, height and construction Note position and type of ground cove	noise sources (identify) material of barriers.	und view of surrour es		measured measured
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lat 51.940s	3 long -	0.27126		
GPS Coordinates 2 letters 5 number	ers 5 m	or	east/west	north/south
Camera ID: Print name	Sign	GPS ID ature		Date
Site staff				02/11/18
QA checked				

**Noise Monitoring Sheet AECOM** Sheet 1 of Luten CRTW **Project Title** Job No Staff Initials START TIME: (DD-MM-YY, HH:MM) END TIME: (DD-MM-YY, HH:MM) 12029 METER < 2 YEARS SINCE CALIBRATION? (SEE LABEL) Tick SAME CALIBRATOR London CALIBRATOR < 1 YEAR SINCE CALIBRATION? BL 173455 379Z CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction set Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Start End Calibration Level 93.6 Read off meter. See reference sheet 2 for expected values Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Low noise level (if cable used): Leave calibrator in place, but turned off Cal Measurement Saved Note file reference for calibration tone measurement Cal within ±0.5 dB Tick to confirm that values within 0.5 dB of expected f not call Project manager or 0115 907 7000 LOGGING PERIOD RESOLUTION SECS / MINS EVERY AUDIO TRIGGER AUDIO SETTING MINS / HOURS or CONTINUOUS LEVEL File name / Number RANGE OR N/A WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START END 13.8 WIND SPEED (m/s) CLOUD COVER (eighths) S TEMPERATURE (°C) PRECIPITATION (Tick) ROAD CONDITIONS (Tick) GROUND CONDITION (Tick) DRIZZLE RAIN HAIL FOG/MIST DRY DAMP WET ICE/SNOW HARD ICE/SNOW FROZEN START Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (Start) Dominant Noise (End) Irathic Truffic Other Sources (End) Other Sources (Start) wind Wind Other Comments:

Figure 7.31: ML24 Monitoring Sheet (two sheets)

ite					Date		Meter
	ENT LOC	ATION					
		IGHT ABOVE GR	OUND		METRES		
Barrer Commen	100000000000000000000000000000000000000	TED ON (TICK)		DISTANCE F	ROM VERTICAL SURFACE	/ FAÇADE ( >3.5M O	R=1M) > 3
RIPOD		A FRAME		LINE OF SIG	HT FROM SOURCE TO RE	CÉIVÉR? (Y/N)	Y
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ark: !	Meter loca Photograp Distance to Note positi		ositions (met ad other noise astruction ma	e sources (iden iterial of barrier	d all round view of surro tify) s.		measured
							1
					χ.		
		2 letters	5 numbers		5 numbers	east/west	north/south
PS Coo	ordinates				or		
	ID.				CDS ID		
amera	ID;	Print name			GPS ID Signature		Date
te staff						3	29/11/1
ie stall							

**Noise Monitoring Sheet** Sheet 1 of A=COM Amount Job No **Project Title** Staff Initials (DD-MM-YY, HH:MM) START TIME: (DD-MM-YY, HH:MM) END TIME: Tick 17079 < 2 YEARS SINCE CALIBRATION? (SEE LABEL) METER SAME CALIBRATOR < 1 YEAR SINCE CALIBRATION? CALIBRATOR USED AT END? CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Correct windshield correction set Sufficient battery? Date and time correct? Clocks synchronised? Sufficient memory? \* Adjust sensitivity at start. Note value but do not adjust at end CALIBRATION (See Reference sheet 2 for meter specific procedure) End Start Read off meter. See reference sheet 2 for expected values Calibration Level B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Sensitivity Setting Leave calibrator in place, but turned off Low noise level (if cable used): Note file reference for calibration tone measurement Cal Measurement Saved Tick to confirm that values within 0.5 dB of expected if not call Project manager or 0115 907 7000 Cal within ±0.5 dB LOGGING PERIOD RESOLUTION Tick AUDIO TRIGGER SECS / MINS MINS / HOURS or CONTINUOUS LEVEL AUDIO SETTING EVERY OR N/A RANGE File name / Number TO WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START END OA8 WIND SPEED (m/s) CLOUD COVER (eighths) TEMPERATURE (°C) GROUND CONDITION (Tick) ROAD CONDITIONS (Tick) PRECIPITATION (Tick) HARD ICE/SNOW WET ICE/SNOW DRIZZLE HAIL FOG/MIST START Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (End) Dominant Noise (Start) Other Comments:

Figure 7.32: ML25 Monitoring Sheet (two sheets)

AECOM Noise Mo	onitoring Sheet	Project	Whon	Sheet 2 of
Site		Date		Meter
EQUIPMENT LOCATION				
MICROPHONE HEIGHT ABOVE O	GROUND	METRES		
TRIPOD A FRAME MAST FENCE OTHER	LINE	INCE FROM VERTICAL SURFAC OF SIGHT FROM SOURCE TO R AL OR POTENTIAL NOISE SOU HU / HVAC / SUBSTATION / CA	RECEIVER? (Y/N) RCES NEARBY?	OR = 1M) > 3 · 3
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Plan view sketch with distances.  Mark: Meter location Photographic direction and Distance to nearest roads Note position, height and o Note position and type of g	North are positions (meter installe and other noise sources construction material of bo	d and all round view of sur (identify) 3	ain audible and pote roundings) estimate estimate	measured measured
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Print name		Signature		Date 82/11/1
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Figure 7.33: ML26 Monitoring Sheet (two sheets)

AECOM Noise Monitoring Sheet Sheet 1 of
Project Title Job No Job No
Site
START TIME: (DD-MM-YY, HH:MM) 2 3 . 0 1 . 1 9 1 0 . 0 C
METER 12052 <2 YEARS SINCE CALIBRATION? (SEE LABEL)
CALIBRATOR USED AT END?  SAME CALIBRATOR USED AT END?  1 YEAR SINCE CALIBRATION?
CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet)  Memory card ID
METER CHECKS AND SET UP
Sufficient battery?  Date and time correct?  Clocks synchron(sed?
CALIBRATION (See Reference sheet 2 for meter specific procedure) *Adjust sensitivity at start. Note value but do not adjust at end
StartEnd
Calibration Level 938 Read off meter. See reference sheet 2 for expected values
Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal lev
Low noise level (if cable used):
Cal Measurement Saved Note file reference for calibration tone measurement
Cal within ±0.5 dB
LOGGING PERIOD RESOLUTION
AUDIO SETTING SECS/MINS SECS/MINS OF CONTINUOUS AUDIO TRIGGER LEVEL dB
File name / Number RANGE TO OR N/A
WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow)
WIND SPEED (m/s)
WIND SPEED (m/s)  N AV S m/s  MAG m/s  N O 7 m/s  Mag m/s
CLOUD COVER (eighths)
TEMPERATURE (°C) S 1 1 °C
PRECIPITATION (Tick) ROAD CONDITIONS (Tick) GROUND CONDITION (Tick)
START END START END START STAR
Subjective description of sound climate (close your eyes and describe what you hear)
Dominant Noise (Start)  Dominant Noise (End)
Tyric Kaye
Other Sources (Start) Other Sources (End)
[
[ - [ ]
Other Comments:

AECOM	Noise Monitoring Sheet	Project Viton	Sheet 2 of
Site		Date 23/01/18	Meter 12051
EQUIPMENT LOCA	ATION		
MICROPHONE HE	IGHT ABOVE GROUND	METRES	
MICROPHONE MOUNT TRIPOD MAST OTHER OTHER	A FRAME LINE OF SIGHT FRO	ERTICAL SURFACE / FAÇADE ( >3.5M OF OM SOURCE TO RECEIVER? (Y/N) ITIAL NOISE SOURCES NEARBY? UBSTATION / CAT SCARER ETC)	R=1M) Im
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GPS Coordinates	2 letters 5 numbers 5 n	umbers east/west or	north/south
Camera ID:	Print name Sign	GPS ID	Date
Site staff			23/01/18
OA checked			

Figure 7.34: ML27 Monitoring Sheet (two sheets)

AECOM Noise Monitoring Sheet	Sheet 1 of
Project Title Wan Amport	Job No
Site	
	Staff I
START TIME: (DD-MM-YY, HH:MM) 2 3 - 0 1 . 1 9	13 42
END TIME: (DD-MM-YY, HH:MM)	16 42
METER 120S1 DVO <2 YEARS SINCE (Tick	CALIBRATION? (SEE LABEL)
SAME CALIBRATOR	AR SINCE CALIBRATION?
CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet)	Memory card ID
METER CHECKS AND SET UP	
Sufficient battery?  Date and time correct?	Correct windshield correction set
Sufficient memory? Clocks synchronised?	· · · ·
CALIBRATION (See Reference sheet 2 for meter specific procedure) *Adjust s	ensitivity at start. Note value but do not adjus
StartEnd	
Calibration Level 93-7 Read off meter.	See reference sheet 2 for expected
Sensitivity Setting Do Not change at and B&K/Nor: Sensiti	ivity; Svantek:C value; Rion:Internal
Low noise level (if cable used) : Leave calibrator	in place, but turned off
Cal Measurement Saved Note file referen	ice for calibration tone measurement
	that values within 0.5 dB of expected
	anager or 0115 907 7000
LOGGING PERIOD RESOLUTION	ON Tick
AUDIO SETTING SECS/MINS WINS/HOURS OF CONTINU	OUS AUDIO TRIGGER LEVEL
File name / Number RANGE	TO OR N/A
WEATHER CONDITIONS Wind direction (arrow) Wind direction	ection (arrow)
START	1 -
WIND SPEED (m/s) N N MAS m/s MAS m/s	N 15 m/s 157
CLOUD COVER (eighths) W E 2 /8	/ E   O  /B
TEMPERATURE (°C)	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
PRECIPITATION (Tick) ROAD CONDITIONS (Tick)	CROLING CONDITION (Tight)
NONE / DRIZZLE RAIN SNOW HAIL FOG/MIST DRY/ DAMP WET ICE/SN	OW SOFT A HARD ICE/SNOW FE
START	
Subjective description of sound climate (close your eyes and describe what you hear	)
Dominant Noise (Start)  Dominant Noise (End)	
Trapic Trapic	불빛 모임 분빛하는 경우하는
Other Services (Start)	
Pedistrians (court) Pedistrians (	(ork)
I have been a supported by the second of	化乳基二氯化 海巴拉萨德勒 电电流 自然 经工作工程

<b>AECOM</b>	Noise Monitoring Sheet	Project Jon Aine	Sheet 2 of
ite		Date 23/01/19	Meter 12051
QUIPMENT LO	CATION		1
ICROPHONE H	IEIGHT ABOVE GROUND	METRES	
CROPHONE MOU		ROM VERTICAL SURFACE / FAÇADE ( >3.5M O	R=1M) >3:Sm
AST .	FENCE ACTUAL OR	HT FROM SOURCE TO RECEIVER? (Y/N) POTENTIAL NOISE SOURCES NEARBY?	No
THER	(EG AHU / H	VAC / SUBSTATION / CAT SCARER ETC)	
lark: Meter loc Photogra Distance Note pos	n with distances.  ation North arrow phic direction and positions (meter installed and to nearest roads and other noise sources (identification, height and construction material of barrier ition and type of ground cover (grass, stone, sh	tify) estimate s. estimate	measured measured
			-
	- Alexander	5 numbers east/west	north/south
PS Coordinates	2 letters 5 numbers	5 numbers east/west	normandur.
amera ID:		GPS ID	
	Print name	Signature	Date
ite staff			23/01/19
A checked			

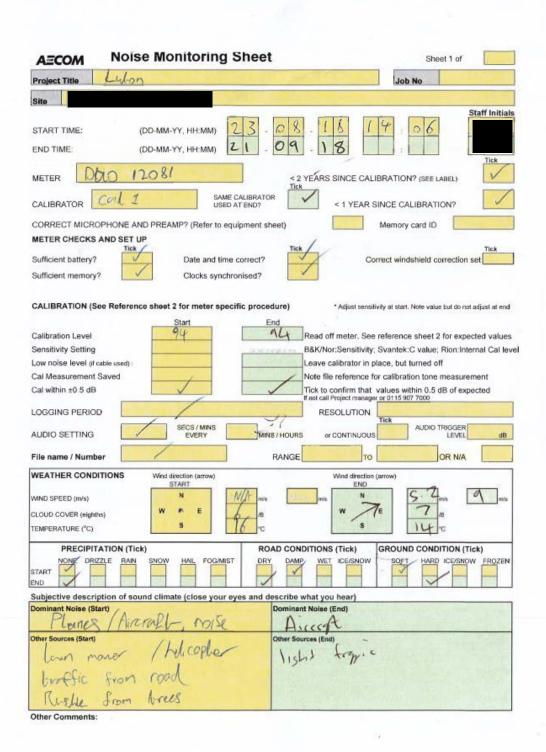
**Noise Monitoring Sheet** Sheet 1 of CRIN Luten **Project Title** Job No Staff Initials START TIME: (DD-MM-YY, HH:MM) END TIME: (DD-MM-YY, HH:MM) METER < 2 YEARS SINCE CALIBRATION? (SEE LABEL) SAME CALIBRATOR < 1 YEAR SINCE CALIBRATION? CALIBRATOR USED AT END? 173455 3792 CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) Memory card ID METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction set Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Start 43-8 93-5 Calibration Level Read off meter. See reference sheet 2 for expected values B&K/Nor:Sensitivity; Svantek; C value; Rion:Internal Cal level Sensitivity Setting Leave calibrator in place, but turned off Low noise level (if cable used): Cal Measurement Saved Note file reference for calibration tone measurement Cal within ±0.5 dB Tick to confirm that values within 0.5 dB of expected not call Project manager or 0115 907 7000 LOGGING PERIOD RESOLUTION AUDIO TRIGGER SECS / MINS AUDIO SETTING MINS / HOURS or CONTINUOUS dB RANGE OR N/A File name / Number TO WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START END 28 7.4 WIND SPEED (m/s) CLOUD COVER (eighths) TEMPERATURE (°C) PRECIPITATION (Tick) ROAD CONDITIONS (Tick) GROUND CONDITION (Tick) DRIZZLE SNOW HAIL FOG/MIST DRY WET ICE/SNOW ICE/SNOW FROZEN RAIN START Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (Start) Dominant Noise (End) Treffic Traffic Other Sources (End) Other Sources (Start) Birds Wind Other Comments:

Figure 7.35: ML28 Monitoring Sheet (one sheet only)

**Noise Monitoring Sheet** Sheet 1 of CRTN **Project Title** Job No Staff Initials START TIME: (DD-MM-YY, HH:MM) 8 END TIME: (DD-MM-YY, HH:MM) Duo 12029 METER < 2 YEARS SINCE CALIBRATION? (SEE LABEL) SAME CALIBRATOR London Cal CALIBRATOR < 1 YEAR SINCE CALIBRATION? CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet) BL 173455137 Memory card ID 92 METER CHECKS AND SET UP Sufficient battery? Date and time correct? Correct windshield correction set Sufficient memory? Clocks synchronised? CALIBRATION (See Reference sheet 2 for meter specific procedure) \* Adjust sensitivity at start. Note value but do not adjust at end Start End 93 93.5 Calibration Level Read off meter. See reference sheet 2 for expected values Sensitivity Setting B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level Low noise level (if cable used): Leave calibrator in place, but turned off Cal Measurement Saved Note file reference for calibration tone measurement Cal within ±0.5 dB Tick to confirm that values within 0.5 dB of expected If not call Project manager or 0115 907 7000 LOGGING PERIOD RESOLUTION AUDIO TRIGGER LEVEL SECS / MINS AUDIO SETTING MINS / HOURS or CONTINUOUS File name / Number RANGE TO OR N/A WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) START END 5.8 1.0 WIND SPEED (m/s) CLOUD COVER (eighths) TEMPERATURE (°C) GROUND CONDITION (Tick) PRECIPITATION (Tick) ROAD CONDITIONS (Tick) WET ICE/SNOW ICE/SNOW DRIZZLE FOG/MIST DRY RAIN SNOW HAIL FROZEN START Subjective description of sound climate (close your eyes and describe what you hear) Dominant Noise (End) **Dominant Noise (Start)** Trathic Trathic Other Sources (End) Other Sources (Start) Tain Other Comments:

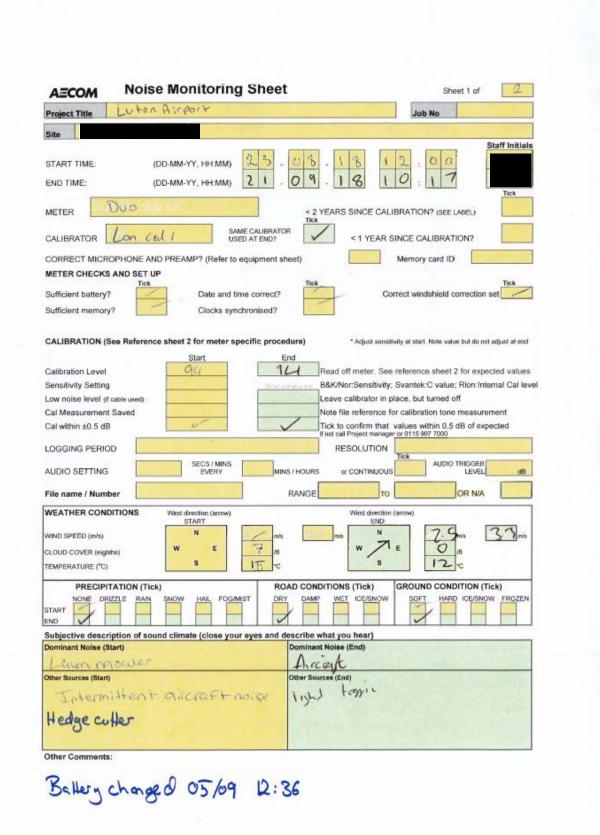
Figure 7.36: ML29 Monitoring Sheet (one sheet only)

Figure 7.37: ML30 Monitoring Sheet (two sheets)



A=	сом	Noise Mo	nitoring SI	neet	Project		Sheet 2	or _
Site					Date		Meter	12031
EQUIE	MENT LOCA	ATION						
(10) 1 <del>7</del> 7 10 1			DOLING.		MÉTRÉS			
MICRO	JPHONE HEI	GHT ABOVE G	ROUND		METRES			
Transport of the last of the l	PHONE MOUNT				FROM VERTICAL SURF		M OR =1M)	V
TRIPOD MAST	-	A FRAME FENCE			SHT FROM SOURCE TO R POTENTIAL NOISE SO			1
OTHER		1		100000000000000000000000000000000000000	IVAC / SUBSTATION / C			
OTHER		*		77				
Plan v	iew sketch v	vith distances.						
Mark:	Meter locat	ion		North arrow		Main audible and p	otential noise	souces
	10 mm				all round view of su			1
		nearest roads a on, height and o			1.550	estimate		measured measured
		on, neight and o on and type of g				Josephalo		measured
		1						
		(						
		Y						
	1							
				- 1-	- V			
				-				
				1	-	-	)	
		. /						
		1					- 1	
		1	1					
			1 tree					
			1 tree					
			Gurden	001				
	1	1	4	a SLM				
	1	9	-		1 0	0 1 . 11	1 0	
		1			1 51	49 18"	N O	38 10 h
		2 letters	5 numbers		5 numbers	east/west		north/south
Gpe c	oordinates							
OF 3 C	oordinates				or [			
	· ID:				000 10			
	a ID:	Print name			GPS ID [		Date	
Camer		Print name			Signature		Date	
Camer	aff		Manager 1					
Site sta	ecked							
Camer Site sta QA che	ecked							

Figure 7.38: ML31 Monitoring Sheet (two sheets)



MODEA	Noise Mo	nitoring Sne	et	Projec	1		Sheet 2 of	
te				Date	23/08	119	Meter	
UIPMENT LO	CATION							
CROPHONE H	EIGHT ABOVE G	ROUND		METRES				
CROPHONE MOUNT POD ST HER	A FRAME FENCE	H	LINE OF SIGN ACTUAL OR I	ROM VERTICAL SUR HT FROM SOURCE 1 POTENTIAL NOISE 5 VAC / SUBSTATION /	O RECEIVER? (Y/N OURCES NEARBY?	)	M)	
Photograp Distance Note posi	phic direction and to nearest roads a tion, height and c	No positions (meter in and other noise so construction materia ound cover (grass	urces (identiful of barriers.	ý)	Main audible ar urroundings) estimate estimate	nd potential	measu	
S Coordinates	2 letters	5 numbers		5 numbers	east/we		north/so 51°53' 1	
S Coordinates	2 letters	5 numbers						

Figure 7.39: ML37 Monitoring Sheet – Part 1 (one sheet only)

Noise Monitoring Sheet Sheet 1 of
Project Title Litox Aupoit EIA Job No
Site
START TIME: (DD-MM-YY, HH:MM) 26 - 62 - 20 11 1 : 30 END TIME: (DD-MM-YY, HH:MM) 10 - 63 - 20 10 : 45
METER SUNCE CALIBRATION? (SEE LABEL)
CALIBRATOR CALIBRATOR AT END <1 YEAR SINCE CALIBRATION?
CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet)  Memory card ID
METER CHECKS AND SET UP Tick Sufficient battery? Date and time correct? Clocks synchronised?  Tick Correct windshield correction set
CALIBRATION (See Reference sheet 2 for meter specific procedure) * Adjust sensitivity at start. Note value but do not adjust at end
Calibration Level Sensitivity Setting Low noise level (if cable used):  Cal Measurement Saved Cal within ±0.5 dB  LOGGING PERIOD  AUDIO SETTING  SECS / MINS EVERY  Wind direction (arrow) START  New August Setting  Read off meter. See reference sheet 2 for expected values B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal level of the cable used):  Leave calibrator in place, but turned off Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Wind direction (arrow) START  Wind direction (arrow) START  Wind direction (arrow) START  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Wind direction (arrow) START  Wind direction (arrow) START  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Wind direction (arrow) START  Wind direction (arrow) START  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Wind direction (arrow) START  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Wind direction (arrow) START  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected  Note file reference for calibration tone measurement Tick to confirm that values wi
PRECIPITATION (Tick)  NONE DRIZZLE RAIN SNOW HAIL FOGMIST DRY DAMP WET ICE/SNOW START END
Subjective description of sound climate (close your eyes and describe what you hear)
School Children dung School hours
Other Sources (Start)  Road troppic outside school hours  Arrot also dedy audible =

S1.865297, -0.326421

Figure 7.40: ML37 Monitoring Sheet – Part 2 (one sheet only)

Noise Monitoring Sheet	Sheet 1 of
Project Title 1 year August 614	Job No
Site	Chaff initial
START TIME: (DD-MM-YY, HH:MM) 13 - (DD-MM-YY, HH:MM) 23 - (DD-MM-YY, HH:MM)	0 3 20 10 15 0 3 20 09 15  Belfor change
METER 966 / 17662	< 2 YEARS SINCE CALIBRATION? (SEE LABEL)
CALIBRATOR USE SAME CALIBRATOR	
CORRECT MICROPHONE AND PREAMP? (Refer to equipment shape and any are UP	heet) Memory card ID
Sufficient battery?  Sufficient memory?  Date and time correct?  Clocks synchronised?	Tick Correct windshield correction set
CALIBRATION (See Reference sheet 2 for meter specific proce	*Adjust sensitivity at start. Note value but do not adjust at end
Sensitivity Setting Low noise level (if cable used):  Cal Measurement Saved  Cal within ±0.5 dB	Read off meter. See reference sheet 2 for expected values B&K/Nor:Sensitivity; Svantek:C value; Rion:Internal Cal levi Leave calibrator in place, but turned off Note file reference for calibration tone measurement Tick to confirm that values within 0.5 dB of expected
COGGING FEIROD	RESOLUTION
AUDIO SETTING SECS / MINS EVERY  File name / Number	MINS / HOURS CONTINUOUS OR N/A
WEATHER CONDITIONS Wind direction (arrow)	Wind direction (arrow)
WIND SPEED (m/s)  CLOUD COVER (eighths)  TEMPERATURE (°C)  START  N W	14AXO <sub>m/s</sub> N 3/5 m/s 4/4 m/s 5 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6
PRECIPITATION (Tick)	ROAD CONDITIONS (Tick)
NONE DRIZZLE RAIN SNOW HAIL START	
Subjective description of sound climate (close your eyes and Dominant Noise (Start)	describe what you hear)  Dominant Noise (End)
School Children	**************************************
Other Sources (Start) Road Trwic Aircraft	Other Sources (End)
Aicak	

Figure 7.41: ML41 Monitoring Sheet (two sheets)

A=COM Noise Monitoring Sheet	Sheet 1 of 2
Project Title Luton Airport	Job No
Site	
	0 7 2 1 13 3 0 Staff Initials 0 7 2 1 0 9 1 5
METER SUM SO	< 2 YEARS SINCE CALIBRATION? (SEE LABEL)
CALIBRATOR CALIBRATOR USED AT END?	<1 YEAR SINCE CALIBRATION?
CORRECT MICROPHONE AND PREAMP? (Refer to equipment she	eet) Memory card ID
METER CHECKS AND SET UP	
Sufficient battery? Date and time correct?  Sufficient memory? Clocks synchronised?	Correct windshield correction set
CALIBRATION (See Reference sheet 2 for meter specific procedure)	lure) * Adjust sensitivity at start. Note value but do not adjust at end
Start Er	
Calibration Level	
Sensitivity Setting	,,
Low noise level (if cable used):	Leave calibrator in place, but turned off
Cal Measurement Saved Cal within ±0.5 dB	Note file reference for calibration tone measurement
Cal Within ±0.5 0B	Tick to confirm that values within 0.5 dB of expected if not call Project manager or 0115 907 7000
LOGGING PERIOD	RESOLUTION Tick
AUDIO SETTING SECS/MINS EVERY	HOURS or CONTINUOUS AUDIO TRIGGER LEVEL dB
File name / Number	RANGE TO OR N/A
WEATHER CONDITIONS Wind direction (arrow)	Wind direction (arrow)
WIND SPEED (m/s) CLOUD COVER (eighths) TEMPERATURE (°C)  START  M  E  B  /B  /B  C	m/s N E 2/ 18 -c
PRECIPITATION (Tick) ROA	AD CONDITIONS (Tick) GROUND CONDITION (Tick)
NONE DRIZZLE RAIN SNOW HAIL FOGMIST DRY START DEND	DAMP WET ICE/SNOW SOFT HARD ICE/SNOW FROZEN
Subjective description of sound climate (close your eyes and de	escribe what you hear)
Birds tweeting	Dominant Noise (End)
Other Sources (Start) Leaves in the Wind	Other Sources (End) Traffic on Vocal
Traffic on road	Arcraft noise
Notes:	Notes:
Other Comments:	

<b>A</b> ECOM	Noise Monitoring Sheet	Project 0	Sheet 2 of 2
Site		Date 13/07/21	Meter 0
EQUIPMENT LOC	CATION		
MICROPHONE HE	EIGHT ABOVE GROUND	METRES	
MICROPHONE MOUNTRIPOD MAST OTHER OTHER	A FRAME LINE OF SIGHT FROM ACTUAL OR POTENT	RTICAL SURFACE / FAÇADE ( > 3.5M OF M SOURCE TO RECEIVER? (YM) TIAL NOISE SOURCES NEARBY? IBSTATION / CAT SCARER ETC)	279 
Distance Note posi		3 estimate estimate	ntial noise souces  measured measured
		Foregre Brick kiln Lone	Resident LTI
	51° 53	147"N 0°21	'25" W
CDS Coordinates		umbers east/west	north/south
GPS Coordinates		or	
Camera ID:	Print name Sign	GPS ID	Date
Site staff			21/0721
QA checked			

Figure 7.42: ML42 Monitoring Sheet (two sheets)

Project Title		heet	Sheet 1 of
	LUTON AIRPORT		Job No
Site			
START TIME: END TIME:	(DD-MM-YY, HH:MM)	1 - 0P - 21 1. 1 - 0P - 21 1	Staff Initia
METER	5LMSO	< 2 YEARS SINCE CALIE	3RATION? (SEE LABEL)
CALIBRATOR	(AL6 SAME CAL USED AT E	IND? <1 YEAR-SI	NCE CALIBRATION?
CORRECT MICR	OPHONE AND PREAMP? (Refer to equip	ment sheet)	Memory card ID
METER CHECKS	AND SET UP		
Sufficient battery? Sufficient memory			ect windshield correction set
CALIBRATION (S	See Reference sheet 2 for meter specific		ity at start. Note value but do not adjust at er
Callbanks - 1 1	Start 2 G	PG Read off meter. See r	-f
Calibration Level Sensitivity Setting			reference sheet 2 for expected valu Svantek:C value; Rion:Internal Cal
ow noise level (if	Andrewson 1	Leave calibrator in pla	
Cal Measurement			r calibration tone measurement
Cal within ±0.5 dB			ralues within 0.5 dB of expected
Jul 1110 11 20 0 00		If not call Project manager	or 0115 907 7000
LOGGING PERIO	10	RESOLUTION	Tick
AUDIO SETTING	SECS MINS EVER	MINS / HOURS or CONTINUOUS	AUDIO TRIGGER 85 de
File name / Numb	ber	RANGE TO	OR N/A
File name / Numb	DITIONS Wind direction (arrow)	Wind direction (a	
WEATHER CONE	DITIONS Wind direction (arrow) START	Wind direction (a	атом)
WEATHER CONE	OITIONS Wind direction (arrow) START N	Wind direction (a END m/s N N	7-/ m/s /-S m/s
WEATHER COND WIND SPEED (m/s) CLOUD COVER (eigh	OITIONS Wind direction (arrow) START N 1.1	Wind direction (a END m/s N N	атом)
WEATHER COND WIND SPEED (m/s) CLOUD COVER (eight TEMPERATURE (°C)	OITIONS Wind direction (arrow) START N W E	Wind direction (a END N N N N N N N N N N N N N N N N N N	/·/ m/s /·S m/s
WEATHER COND WIND SPEED (m/s) CLOUD COVER (eigh TEMPERATURE (°C) PRECIPIT NONE DRI	OTTIONS Wind direction (arrow) START  N  W	Wind direction (a END N N N N N N N N N N N N N N N N N N	The state of the s
WEATHER COND WIND SPEED (m/s) CLOUD COVER (eight TEMPERATURE (°C) PRECIPIT NONE DRI	OTTIONS Wind direction (arrow) START N W E S TATION (Tick)	Wind direction (a END N N N N N N N N N N N N N N N N N N	The state of the s
WEATHER COND WIND SPEED (m/s) CLOUD COVER (eight TEMPERATURE (°C) PRECIPIT NONE DRI START END Subjective descr	OTTIONS  Wind direction (arrow)  START  N  E  S  TATION (Tick)  IDIO of sound climate (close your eyestart)	Wind direction (a END N N N N N N N N N N N N N N N N N N	The state of the s
WEATHER COND WIND SPEED (m/s) CLOUD COVER (eight TEMPERATURE (°C) PRECIPIT NONE DRI START END Subjective descr	DITIONS  Wind direction (arrow)  START  N  V	ROAD CONDITIONS (Tick) DRY DAMP WET ICE/SNOW  s and describe what you hear) Dominagt Noise (End)	The second secon

A=COM	Noise Monitorin	g Sheet	Project		Sheet 2 of
Site			Date 2	1/01/21	Meter SLM So
QUIPMENT LOC	CATION				
MICROPHONE HE	EIGHT ABOVE GROUND		METRES		
h	A FRAME FENCE	LINE OF SIGHT ACTUAL OR PO	M VERTICAL SURFACE FROM SOURCE TO RE TENTIAL NOISE SOURCE C / SUBSTATION / CAT S	CEMER? (Y/N) CES NEARBY?	X=1M) 73.5
Plan view sketch Mark: Meter loca Photograp Distance t Note posit	with distances.	noise sources (identify) n material of barriers.	round view of surro		measured measured
Troski	- Comb			Cholk Hill	7,
	2 letters 5 numb	pers	5 numbers	east/west	north/south
SPS Coordinates			or _		
amera ID:	Print name		GPS ID Gignature		Date
lite staff					21/07/21
A checked					

Figure 7.43: ML43 Monitoring Sheet (two sheets)

Cal within ±0.5 dB  LOGGING PERIOD  AUDIO SETTING  SEGS / MINS EVERY  MINS / HOURS or CONTINUOUS  AUDIO TRIGGE LEVI  File name / Number  WEATHER CONDITIONS  Wind direction (arrow) START  AUDIO TRIGGE LEVI  Wind direction (arrow) START  AUDIO TRIGGE LEVI  Wind direction (arrow) END  No. 5 dB of Tick to confirm that values within 0.5 dB of If not call Project manager or 0115 907 7000  RESOLUTION  Tick AUDIO TRIGGE LEVI  OR N  Wind direction (arrow) END	Tick
SITE  START TIME: (DD-MM-YY, HH:MM) 2 1 - 0 7 - 2 1 1 0 0 0  END TIME: (DD-MM-YY, HH:MM) 2 1 - 0 7 - 2 1 1 0 0 0  METER SLM 40 0088 413	Tick
START TIME: (DD-MM-YY, HH:MM) 2 1 - 0 7 - 2 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tick
CALIBRATOR  CALIBRATOR  SAME CALIBRATOR  USED AT END?  CORRECT MICROPHONE AND PREAMP? (Refer to equipment sheet)  Memory card ID  Tick  Correct windshield correcti  Correct windshield correcti  Correct windshield correcti  Correct windshield correcti  Calibration Level  Sensitivity at start. Note value but of the calibration Level  Sensitivity Setting  Leave calibrator in place, but turned off  Note file reference for calibration tone meast ick to confirm that values within 0.5 dB of if not call Project manager or 0115 907 7000  RESOLUTION  RESOLUTION  RESOLUTION  RESOLUTION  RESOLUTION  RESOLUTION  Wind direction (arrow)  START  Wind direction (arrow)  START  Wind direction (arrow)  START  Wind direction (arrow)  START  Wind direction (arrow)  Wind direction (arrow)  END  Wind direction (arrow)  END	Tick
CALIBRATION (See Reference sheet 2 for meter specific procedure)  Calibration Level Sensitivity setting Low noise level (if cable used)  Cal within ±0.5 dB  Cal withi	
METER CHECKS AND SET UP  Sufficient battery?  Sufficient battery?  Sufficient memory?  Calibration Level  Sensitivity Setting  Low noise level (if cable used):  Cal Measurement Saved  Cal within ±0.5 dB  LOGGING PERIOD  AUDIO SETTING  Sess_/MINS  AUDIO TRIGGE  File name / Number  Weather Conditions  Wind direction (arrow)  START  Date and time correct?  Correct windshield correction  Tick  Correct windshield correction  Tick  Correct windshield correction  Tick  Correct windshield correction  Tick  Correct windshield correction  Adjust sensitivity at start. Note value but of the confirmation of the	
Sufficient battery? Sufficient memory?  Calibration Level Sensitivity Setting Low noise level (if cable used)  Cal within ±0.5 dB  LOGGING PERIOD  AUDIO SETTING  Sess, MINS AUDIO SETTING  Tick Correct windshield correction  Adjust sensitivity at start. Note value but of the call project manager or 0115 907 7000  RESOLUTION  Wind direction (arrow)  START  Weather Conditions  Wind direction (arrow)  START	
CALIBRATION (See Reference sheet 2 for meter specific procedure)  *Adjust sensitivity at start. Note value but of the continuous of the co	
Calibration Level  Sensitivity Setting  Low noise level (if cable used):  Cal Measurement Saved  Cal within ±0.5 dB  LOGGING PERIOD  AUDIO SETTING  Sensitivity Setting  Leave calibrativity; Svantek:C value; Rion  Note file reference for calibration tone meast Tick to confirm that values within 0.5 dB of line teal Project manager or 0115 907 7000  RESOLUTION  Tick  AUDIO TRIGGE  File name / Number  Weather Conditions  Wind direction (arrow)  START  Wind direction (arrow)  END	
Calibration Level  Sensitivity Setting  Low noise level (if cable used):  Cal Measurement Saved  Cal within ±0.5 dB  LOGGING PERIOD  AUDIO SETTING  SEGS / MINS  EVERY  WIND direction (arrow)  START  Read off meter. See reference sheet 2 for or Read off meter. See reference sheet 2 for or Resolutivity; Svantek: C value; Rion  Leave calibrator in place, but turned off  Note file reference sheet 2 for or Set Inches and Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place in place, but turned off  Note file reference sheet 2 for or Set Inches in place in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference sheet 2 for or Set Inches in place, but turned off  Note file reference for calibration to place in place, but turned off  Note file reference for calibration to place in place i	o not adjust at end
Low noise level (if cable used)  Cal Measurement Saved  Cal within ±0.5 dB  LOGGING PERIOD  AUDIO SETTING  SEGS/MINS  EVERY  MINS / HOURS or CONTINUOUS  Weather Conditions  Wind direction (arrow)  START  Leave calibrator in place, but turned off  Note file reference for calibration tone meast  Tick to confirm that values within 0.5 dB of  If not call Project manager or 0115 907 7000  RESOLUTION  Tick  AUDIO TRIGGE  LEVI  Wind direction (arrow)  START  Wind direction (arrow)  START  Note file reference for calibrator in place, but turned off  Note file reference for calibrator in place, but turned off  Note file reference for calibration tone meast  Tick to confirm that values within 0.5 dB of  If not call Project manager or 0115 907 7000  RESOLUTION  Tick  AUDIO TRIGGE  LEVI  TO  OR N  Wind direction (arrow)  START	expected value
Cal Measurement Saved  Cal within ±0.5 dB  Indical Project manager or 0115 907 7000  RESOLUTION  AUDIO SETTING  SEGS / MINS  EVERY  MINS / HOURS or CONTINUOUS  AUDIO TRIGGE  LEW  WEATHER CONDITIONS  Wind direction (arrow)  START  Note file reference for calibration tone meast  Tick to confirm that values within 0.5 dB of  If not call Project manager or 0115 907 7000  RESOLUTION  Tick  AUDIO TRIGGE  LEW  Wind direction (arrow)  START  Wind direction (arrow)  START  Note file reference for calibration tone meast  To Confirm that values within 0.5 dB of  If not call Project manager or 0115 907 7000  RESOLUTION  Wind direction (arrow)  START  Wind direction (arrow)  END	Internal Cal le
Cal within ±0.5 dB  Tick to confirm that values within 0.5 dB of if not call Project manager or 0115 907 7000  RESOLUTION  AUDIO SETTING  SE6S / MINS  EVENT  MINS / HOURS or CONTINUOUS  AUDIO TRIGGE LEVI  File name / Number  WEATHER CONDITIONS  Wind direction (arrow)  START  Vind direction (arrow)  START  Vind direction (arrow)  START  END	
LOGGING PERIOD  RESOLUTION  RESOLUTION  Tick  AUDIO TRIGGE  LEVE  File name / Number  WEATHER CONDITIONS  Wind direction (arrow)  START  No. 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	urement
AUDIO SETTING  SESS/MINS MINS/HOURS OF CONTINUOUS  AUDIO TRIGGE LEVE  File name / Number  RANGE  TO  OR N  WEATHER CONDITIONS  Wind direction (arrow)  START  AUDIO TRIGGE LEVE  Wind direction (arrow)  END	expected
AUDIO SETTING  SPES, MINS  MINS / HOURS or CONTINUOUS  AUDIO TRIGGE  LEVI  File name / Number  RANGE  TO  OR N  WEATHER CONDITIONS  Wind direction (arrow)  START  AUDIO TRIGGE  LEVI  OR N  Wind direction (arrow)  END	
WEATHER CONDITIONS Wind direction (arrow) Wind direction (arrow) END END	
START END	Α
WIND SPEED (m/s) m/s m/s	0.5
w e e     7     w e	m/s
CLOUD COVER (eighths)	
TEMPERATURE (°C) S C	
PRECIPITATION (Tick) ROAD CONDITIONS (Tick) GROUND CONDITION	(Tick)
NONE DRIZZLE RAIN SNOW HAIL FOGMIST DRY DAMP WET ICE/SNOW SOFT HARD/ICE/START DRY DAMP WET ICE/SNOW SOFT HARD/ICE/SNOW SOFT HARD/ICE/SNOW SOFT HARD/ICE/SNOW SOFT DRY DAMP WET ICE/SNOW SOFT DRY DAMP WET	NOW FROZEN
Subjective description of sound climate (close your eyes and describe what you hear)	
Dominant Noise (Start)  Dominant Noise (End)	
Road Restrict Dog Borking on Jarm Dog Borking on Jarn	
Other Sources (Start) Other Sources (End)	`
consequent Traffic on road Traffic on road	`
Birdsonel Birdsonel	<b>`</b>
Notes: Bird Song Rooders Notes: Other Comments: Prayers	>
Notes: Notes: Notes:	`

A=COM	Noise Monito	ring Sheet	Project	Sheet 2 of
ite			Date 21/07/4	Meter SLn47
QUIPMENT LOC	CATION			
IICROPHONE H	EIGHT ABOVE GROUN	1·Z	METRES	
ICROPHONE MOUN			VERTICAL SURFACE / FAÇADE ( >3.5M O	OR =1M)
AST	A FRAME  FENCE		NTIAL NOISE SOURCES NEARBY?	
THER	7		SUBSTATION / CAT SCARER ETC)	
THER PO	de			
Photograp Distance t Note positi	phic direction and position to nearest roads and other tion, height and constru	North arrow ons (meter installed and all ro her noise sources (identify) iction material of barriers. cover (grass, stone, shrubs e	7M estimate estimate	measured measured
793		r (	Call ST	7//
1210 man (60 mer to	c Count		Golf Course ST	TV TV
Tr. 00.	. (0:1		Conse	\ \ \
1 vary	c Com		///	
		\	///-	
			1 Farm	
			~ \ /	
			Carl	
			12 Ex	
			M. S	
				7
				1000
		3000 Maria	AND THE RESIDENCE OF THE PARTY	
	2 letters 5 n	numbers 5 n	numbers east/west	north/south
PS Coordinates	2 letters 5 n	numbers 5 n	numbers east/west	north/south
PS Coordinates	2 letters 5 n	numbers 5 n	or	north/south
PS Coordinates amera ID:			GPS ID	Date
amera ID:	2 letters 5 n		or	Date
			GPS ID	
amera ID:			GPS ID	Date

Figure 7.44: ML43 Monitoring Sheet (two sheets)

A=COM N	Noise Monitoring Sheet	Sheet 1 of 2
Project Title	UTON AIRPORT	Job No
Site	,	
START TIME: END TIME:	(DD-MM-YY, HH:MM)	
	Tick	SINCE CALIBRATION? (SEE LABEL)
CALIBRATOR C	SAME CALIBRATOR USED AT END?	< 1 YEAR SINCE CALIBRATION?
CORRECT MICROPHO	ONE AND PREAMP? (Refer to equipment sheet)	Memory card ID
METER CHECKS AND	SET UP	
Sufficient battery? Sufficient memory?	Date and time correct?  Clocks synchronised?	Correct windshield correction set
CALIBRATION (See Re	eference sheet 2 for meter specific procedure)	* Adjust sensitivity at start. Note value but do not adjust at end
Calibration Level		ff meter. See reference sheet 2 for expected values
Sensitivity Setting	Do Not change at end B&K/No	or:Sensitivity; Svantek:C value; Rion:Internal Cal level
Low noise level (if cable us	sed):	calibrator in place, but turned off
Cal Measurement Saved	Note file	e reference for calibration tone measurement
Cal within ±0.5 dB	Tick to	confirm that values within 0.5 dB of expected Project manager or 0115 907 7000
LOGGING PERIOD	RE	SOLUTION Tick
AUDIO SETTING	SECS / MINS EVERY  MING LHOURS OF	CONTINUOUS AUDIO TRIGGER LEVEL dB
File name / Number	RANGE	TO OR N/A
WEATHER CONDITION		Wind direction (arrow)
14411D CD55D (-41)	START (-) (-3	N / // m/s 4.S m/s
WIND SPEED (m/s)	W / E   7 m/s	W E A.S.m/s
CLOUD COVER (eighths)	" s   10 18	5 19 8
TEMPERATURE (°C)		° 17 ℃
PRECIPITATION	N (Tick) ROAD CONDITIONS	S (Tick) GROUND CONDITION (Tick)
START START	RAIN SNOW HAIL FOGMIST DRY DAMP WET	FICE/SNOW SOFT HARD ICE/SNOW FROZEN
	of sound climate (close your eyes and describe what yo	
Dominant Noise (Start)	Dominant Noise (	End)
Birds twee	blag Birds	breebing
Traffic on 10	Other Sources (End	on rord
Aircraft distart fam	Aucort	
distant form	operation	
Notes:	Notes:	
Other Comments:		

A=COM	Noise Monitoring She	eet	Project	0	Sheet 2 of	2
Site			Date   13/07/	21	Meter 0	
EQUIPMENT LOC	ATION					
MICROPHONE HE	EIGHT ABOVE GROUND	1 2 ME	TRES			
MICROPHONE MOUN			TICAL SURFACE / FAÇAL		-1M) >3	S
TRIPOD MAST	A FRAME FENCE		SOURCE TO RECEIVERS  L NOISE SOURCES NEA			
OTHER Pole		(EG AHU / HVAC / SUBS	STATION / CAT SCARER	ETC)		_
Plan view sketch Mark: Meter loca		orth arrow	Main audib	ile and poten	tial noise souces	
	phic direction and positions (meter in			)		
Note posit	to nearest roads and other noise so tion, height and construction materi tion and type of ground cover (gras	al of barriers.	estima		measured	
car 1	Aircreft					
##1	114					
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'						
		12			,	
1	l (	//	Public	1-0	wm	
)	1 (	\	Foot	oally		
	\ F	iam C2	Public Foot	Logby	1	
	'	CC 2		<del></del>		
		515	-15th			
			//	Fw		
		//		pa	<i>M</i> 1	
			Stony Lone		1	N
			30.0		4	-
	1 /				J	
	2 letters 5 numbers	5 num	bers ea	st/west	north/south	1
GPS Coordinates			or			
Camera ID:			GPS ID			
	Print name	Signate		$\neg$	Date	
Site staff					13/7/2	J
QA checked						1
					_	

Figure 7.45: Measured Baseline Sound Levels – ML1

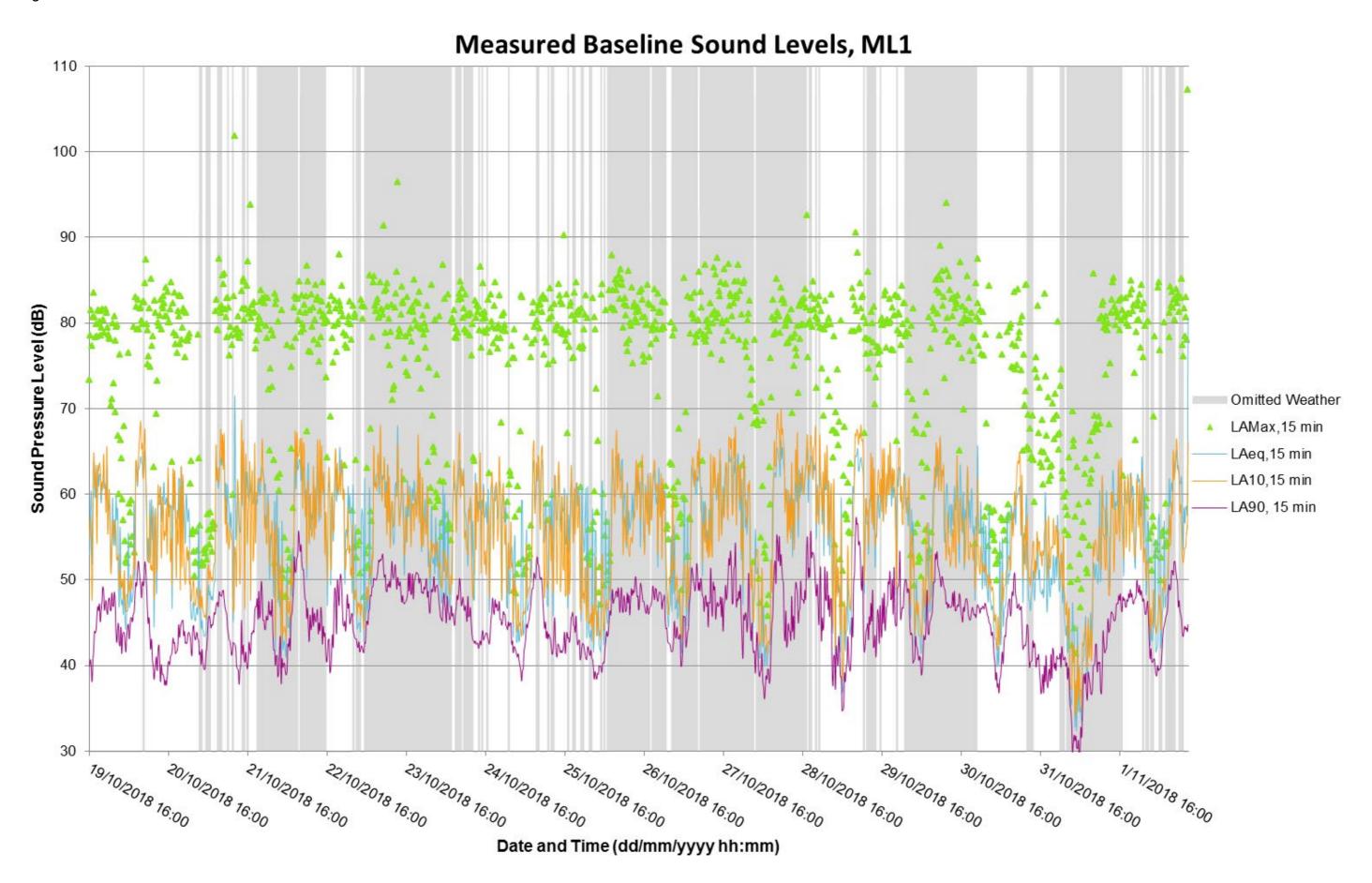
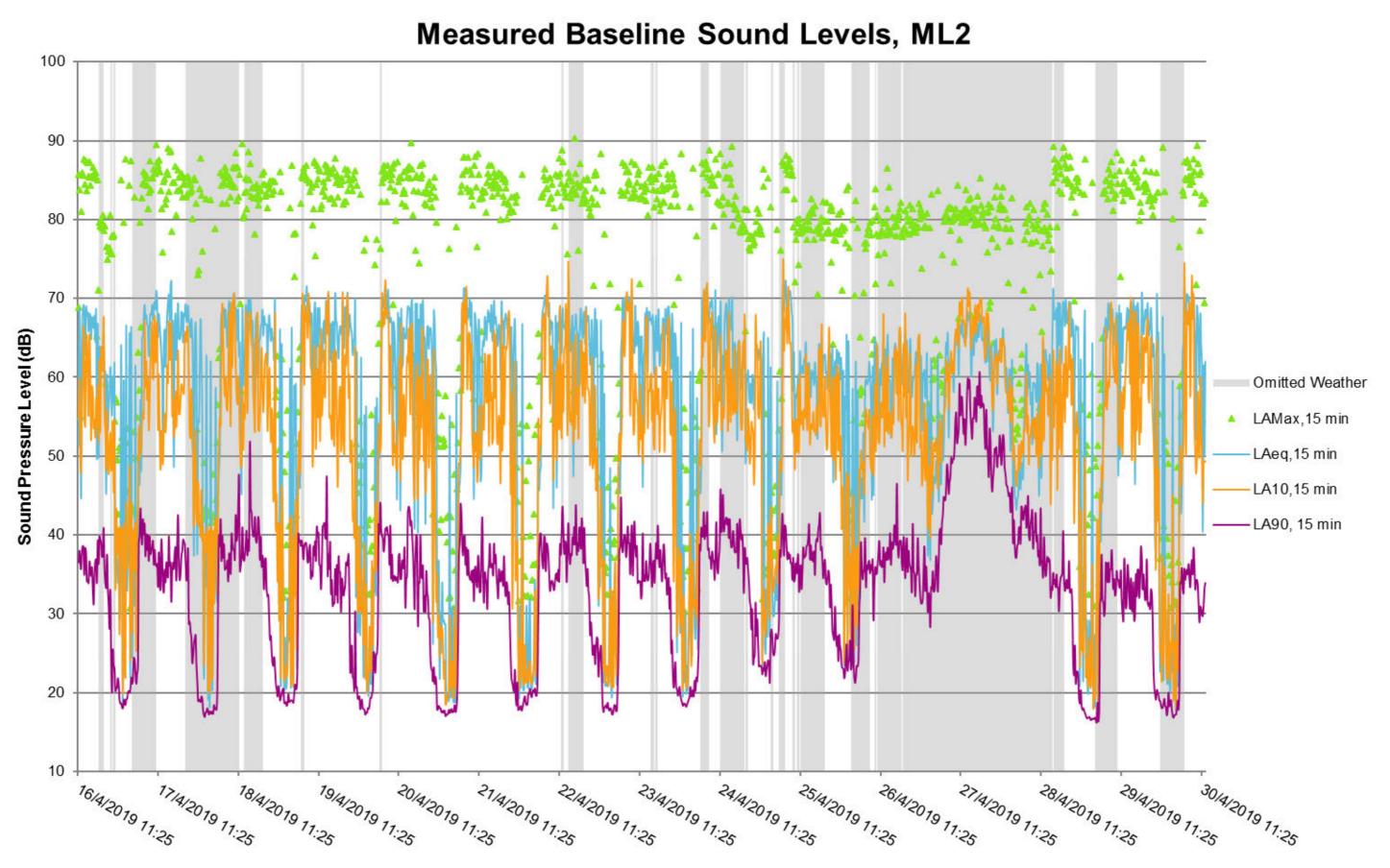


Figure 7.46: Measured Baseline Sound Levels – ML2



Date & Time (dd/mm/yy hh:mm)

Figure 7.47: Measured Baseline Sound Levels – ML3

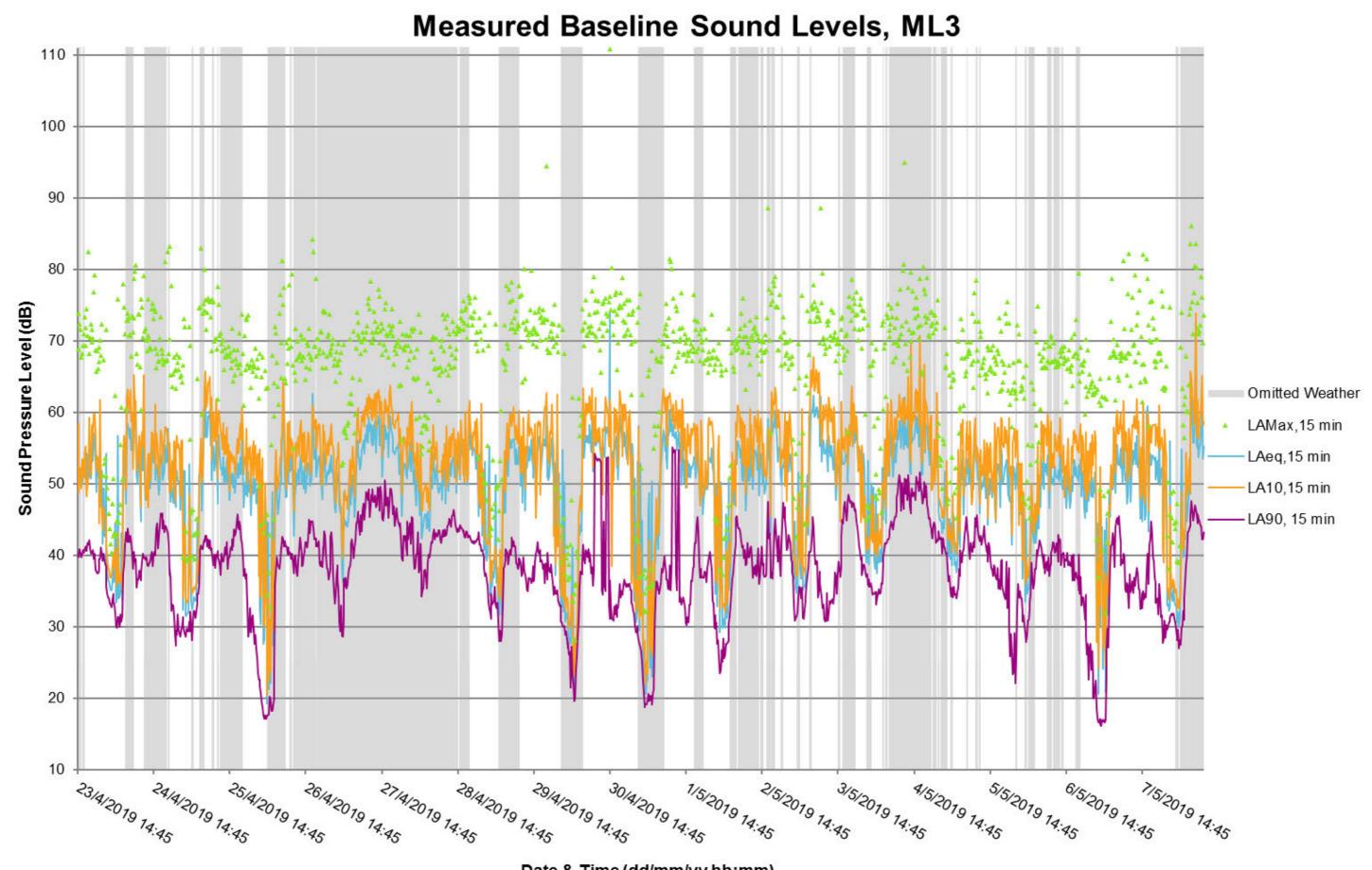


Figure 7.48: Measured Baseline Sound Levels - ML4

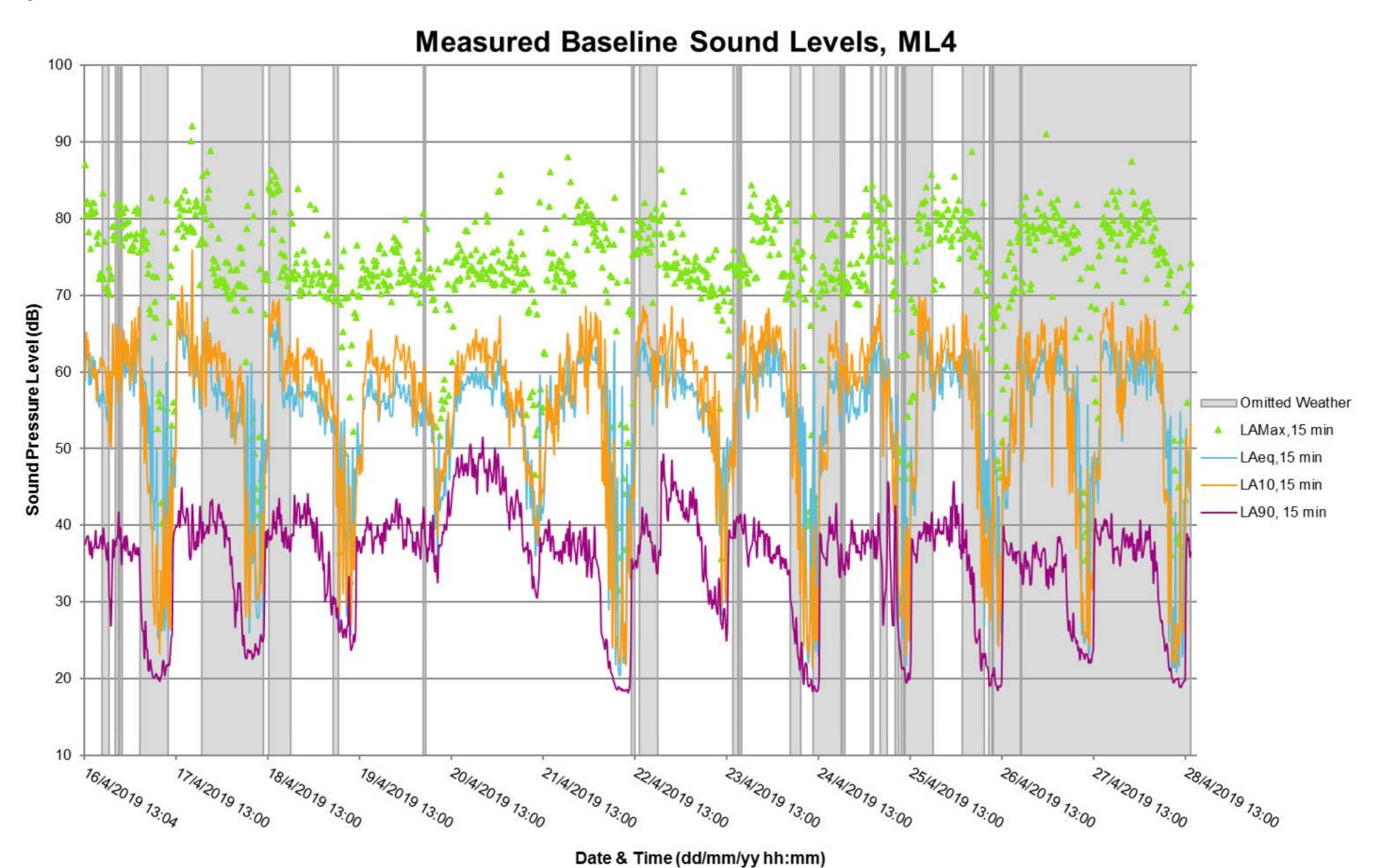


Figure 7.49: Measured Baseline Sound Levels – ML5

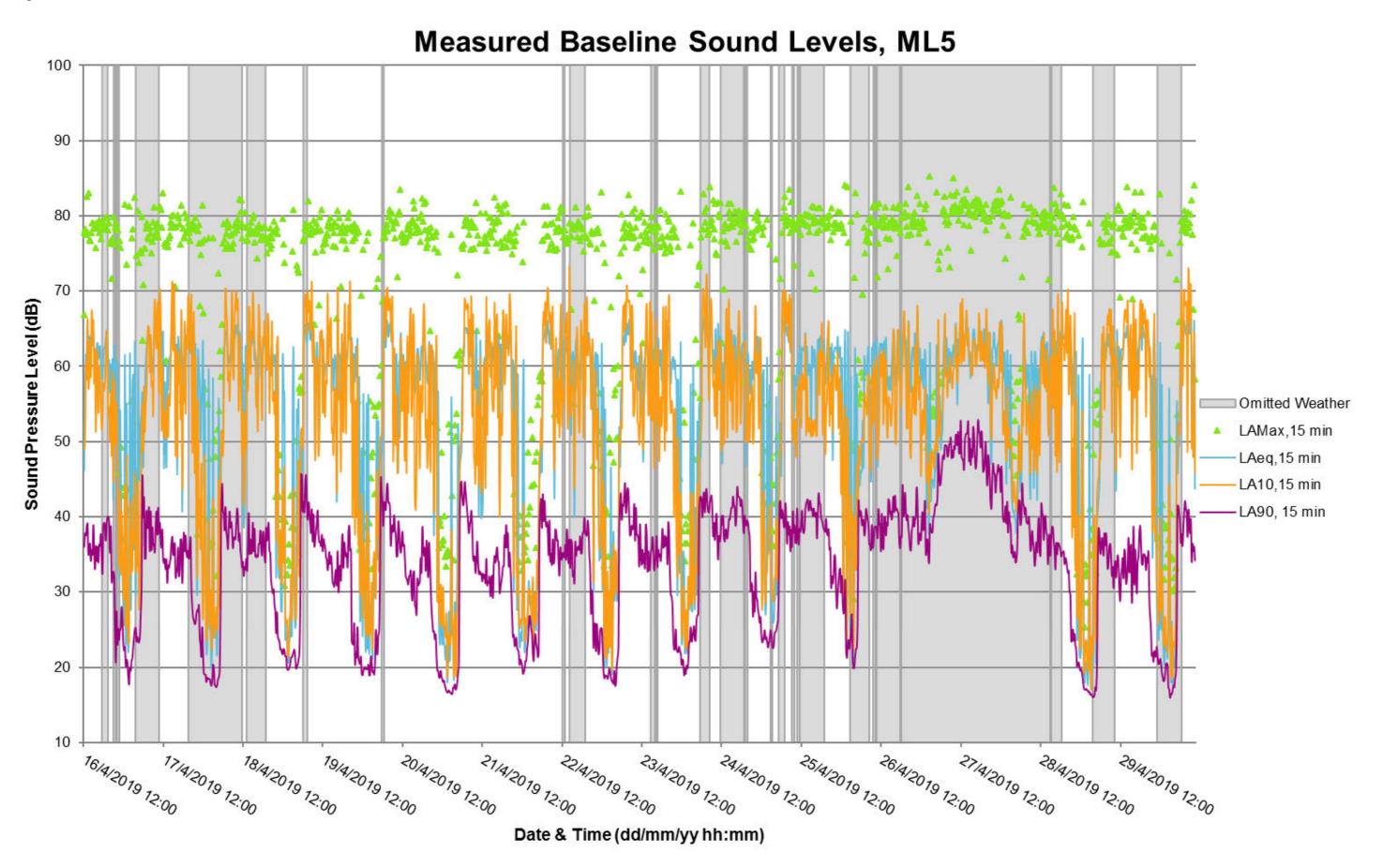


Figure 7.50: Measured Baseline Sound Levels – ML6

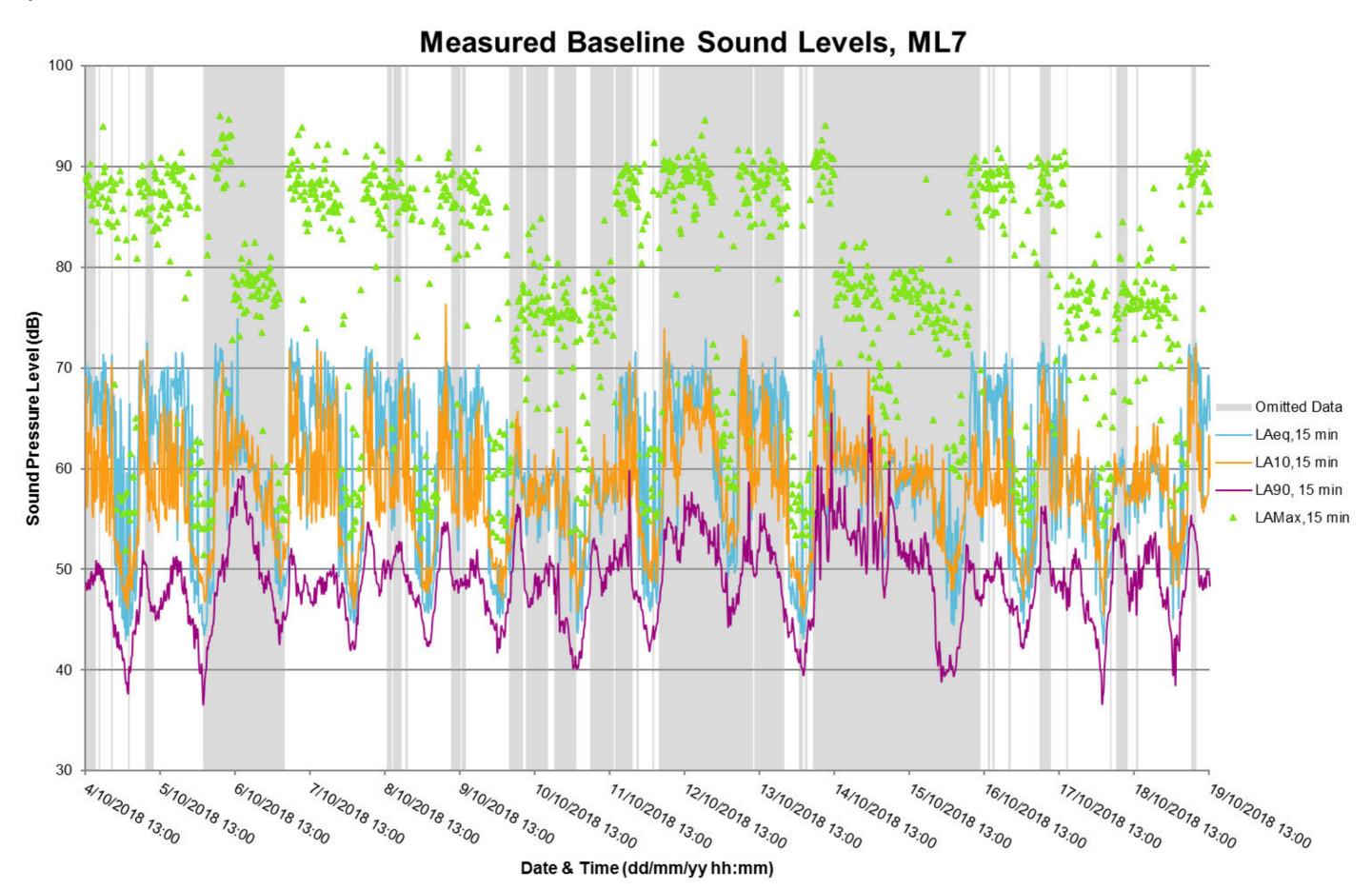


Figure 7.51: Measured Baseline Sound Levels - ML7

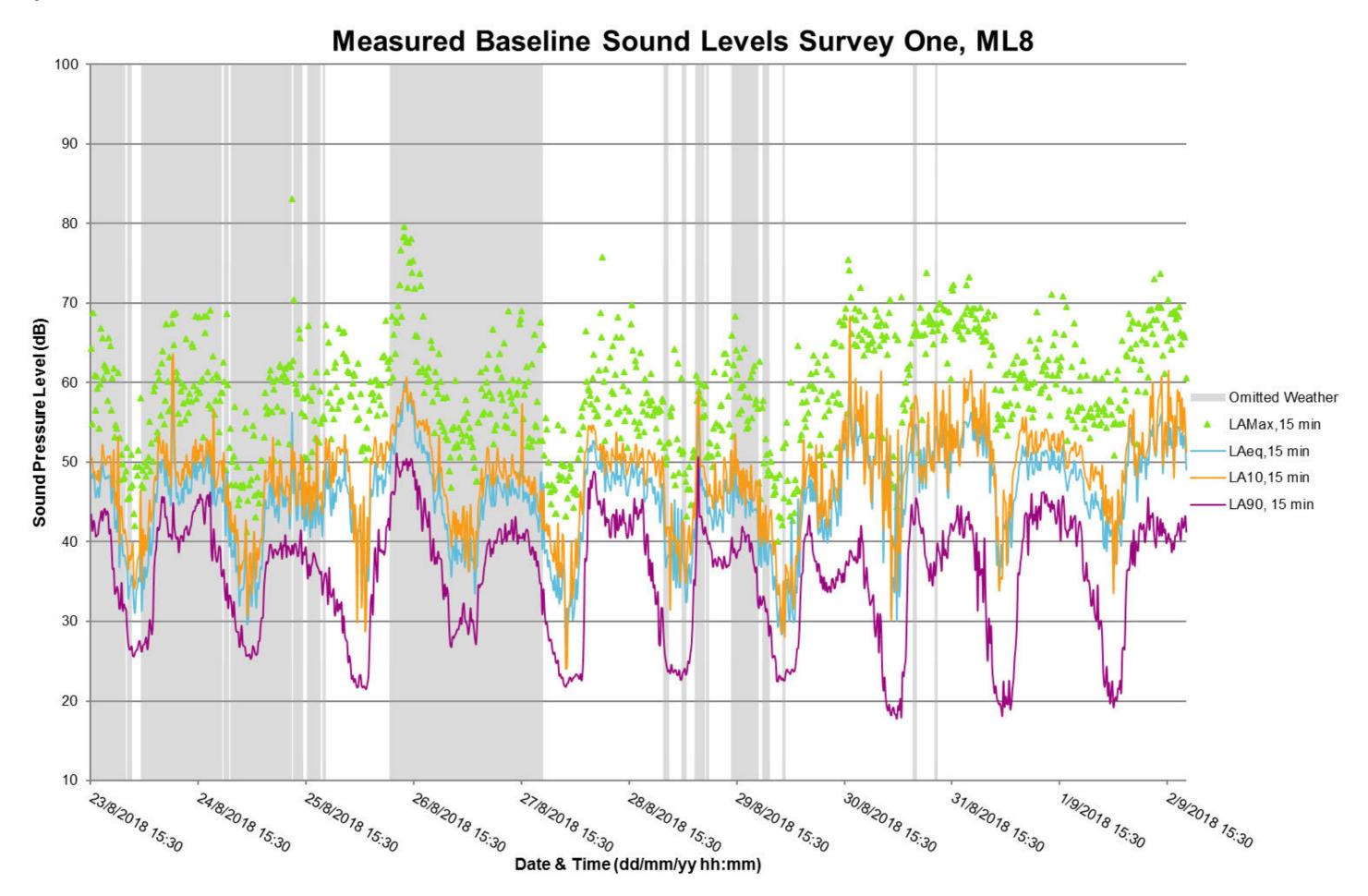


Figure 7.52: Measured Baseline Sound Levels – ML8

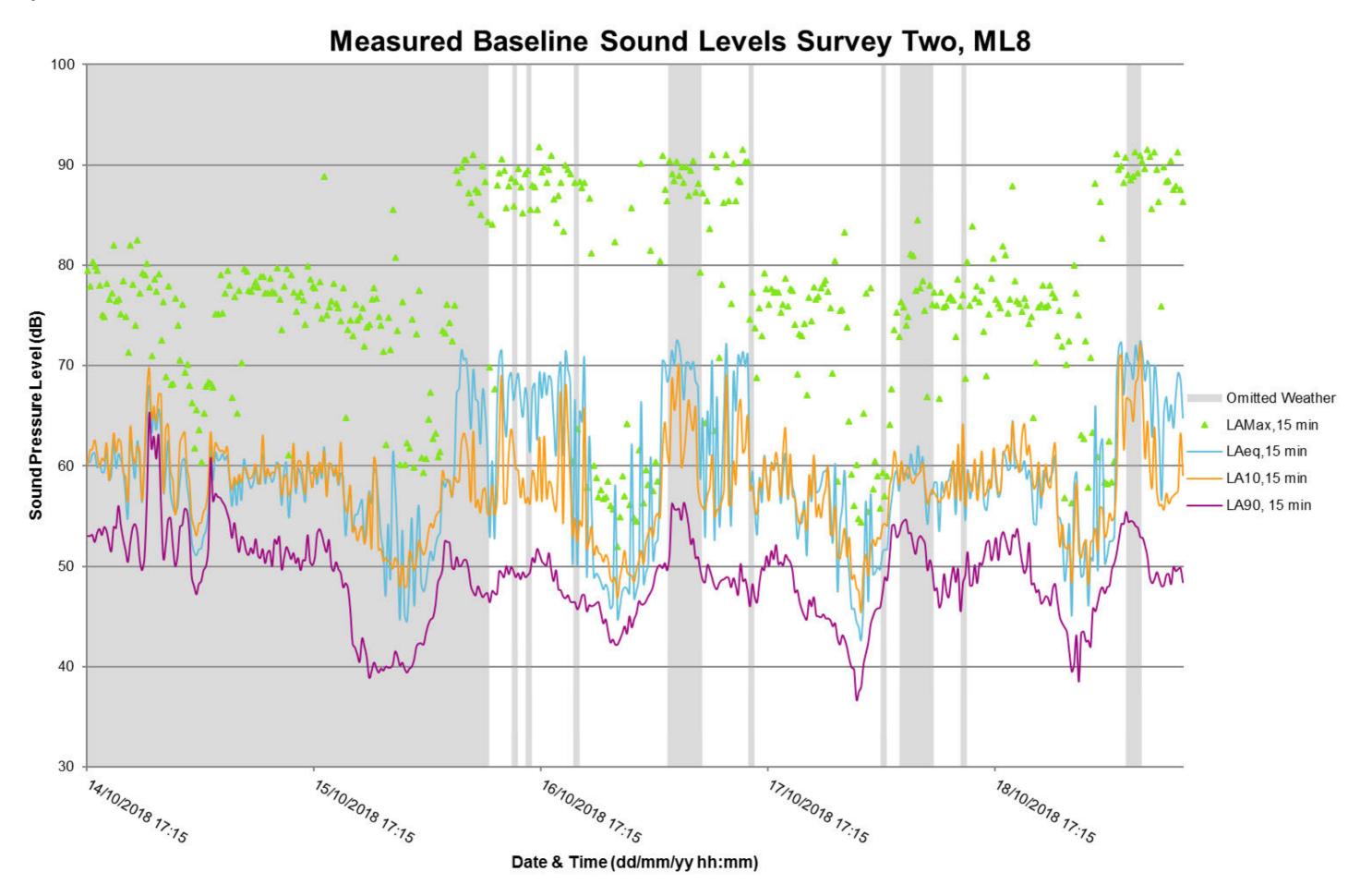


Figure 7.53: Measured Baseline Sound Levels – ML9

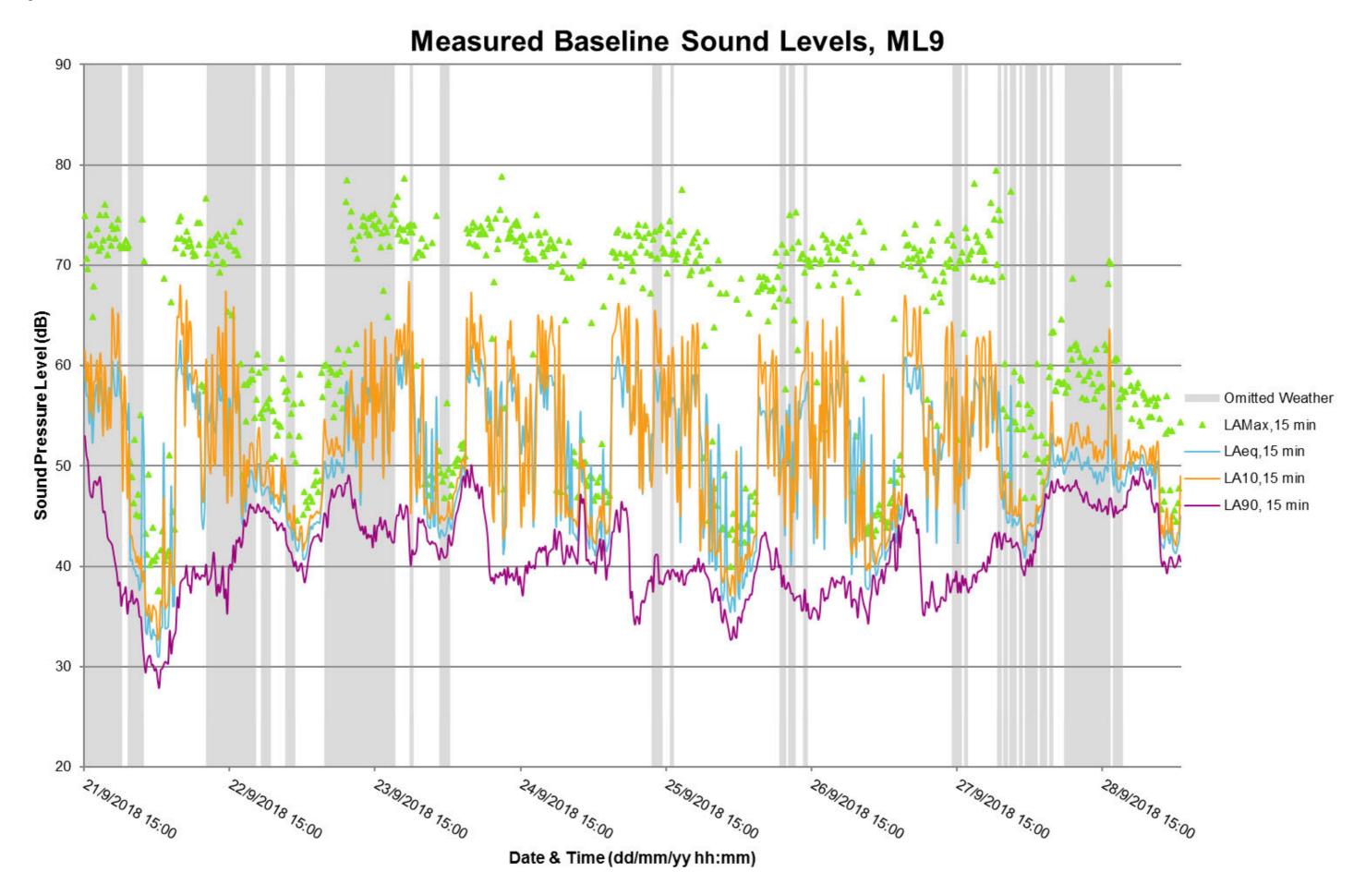


Figure 7.54: Measured Baseline Sound Levels – ML10 Survey 1

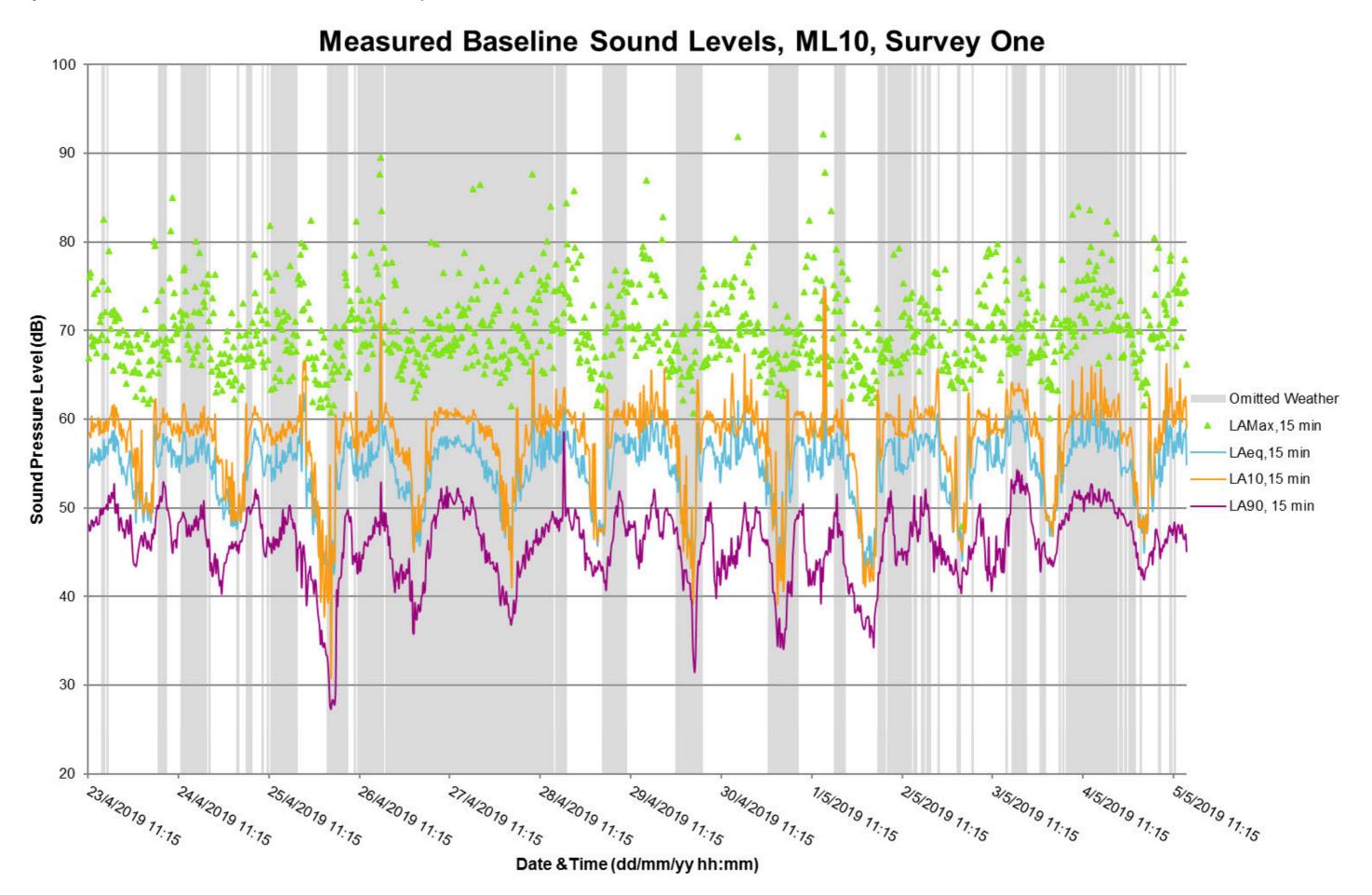


Figure 7.55: Measured Baseline Sound Levels – ML10 Survey 2

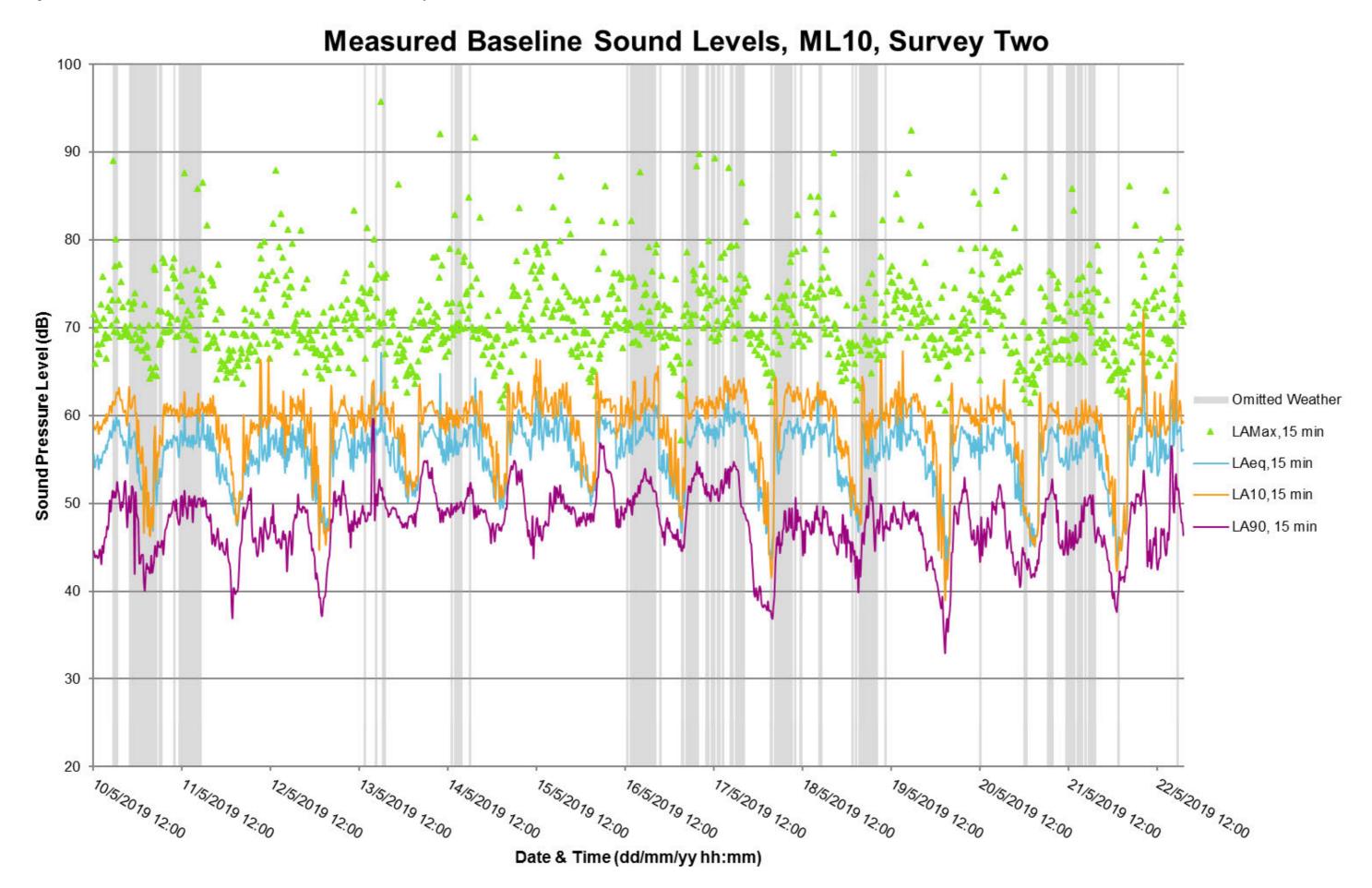


Figure 7.56: Measured Baseline Sound Levels – ML11 Survey 1

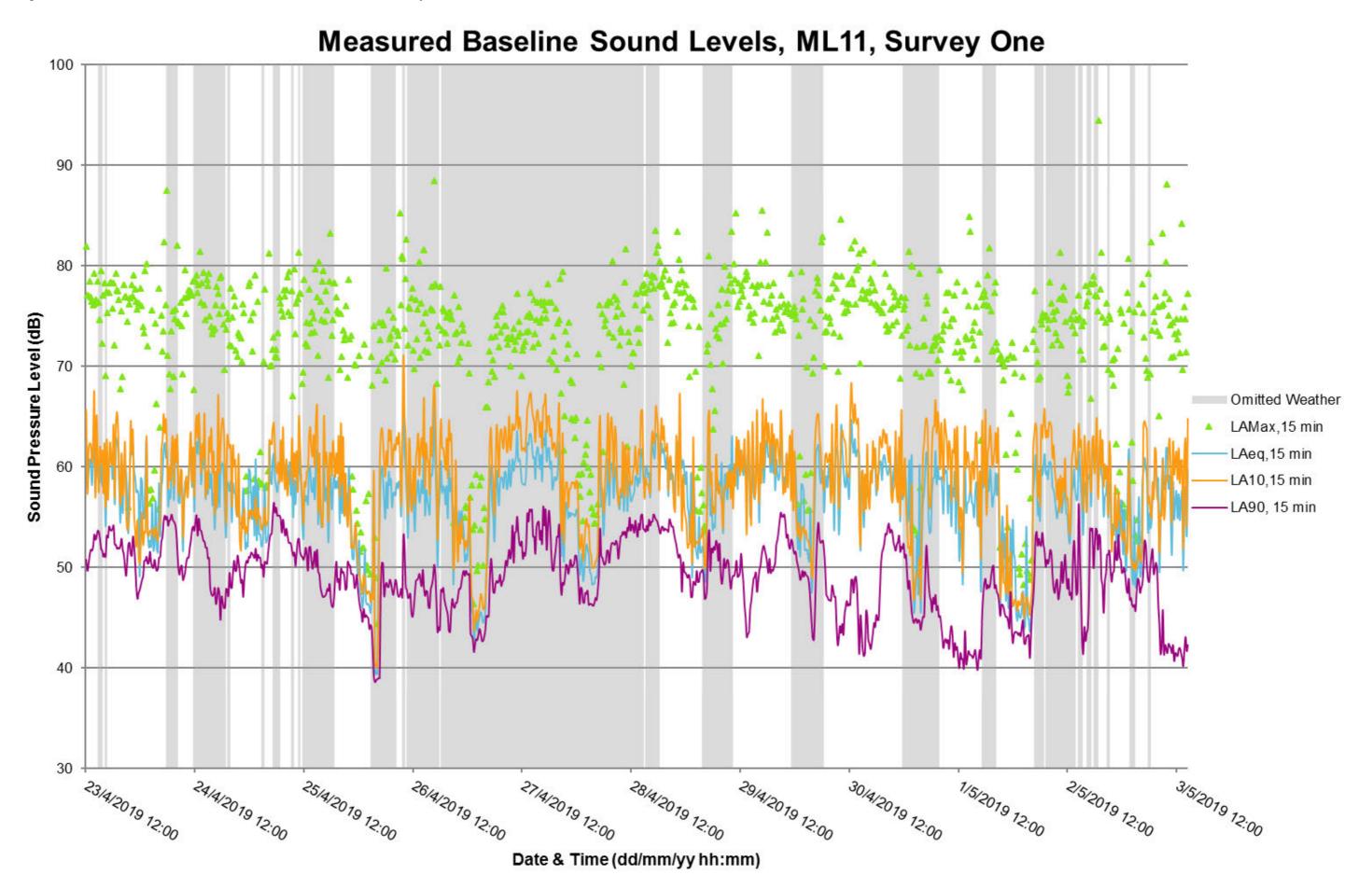


Figure 7.57: Measured Baseline Sound Levels – ML11 Survey 2

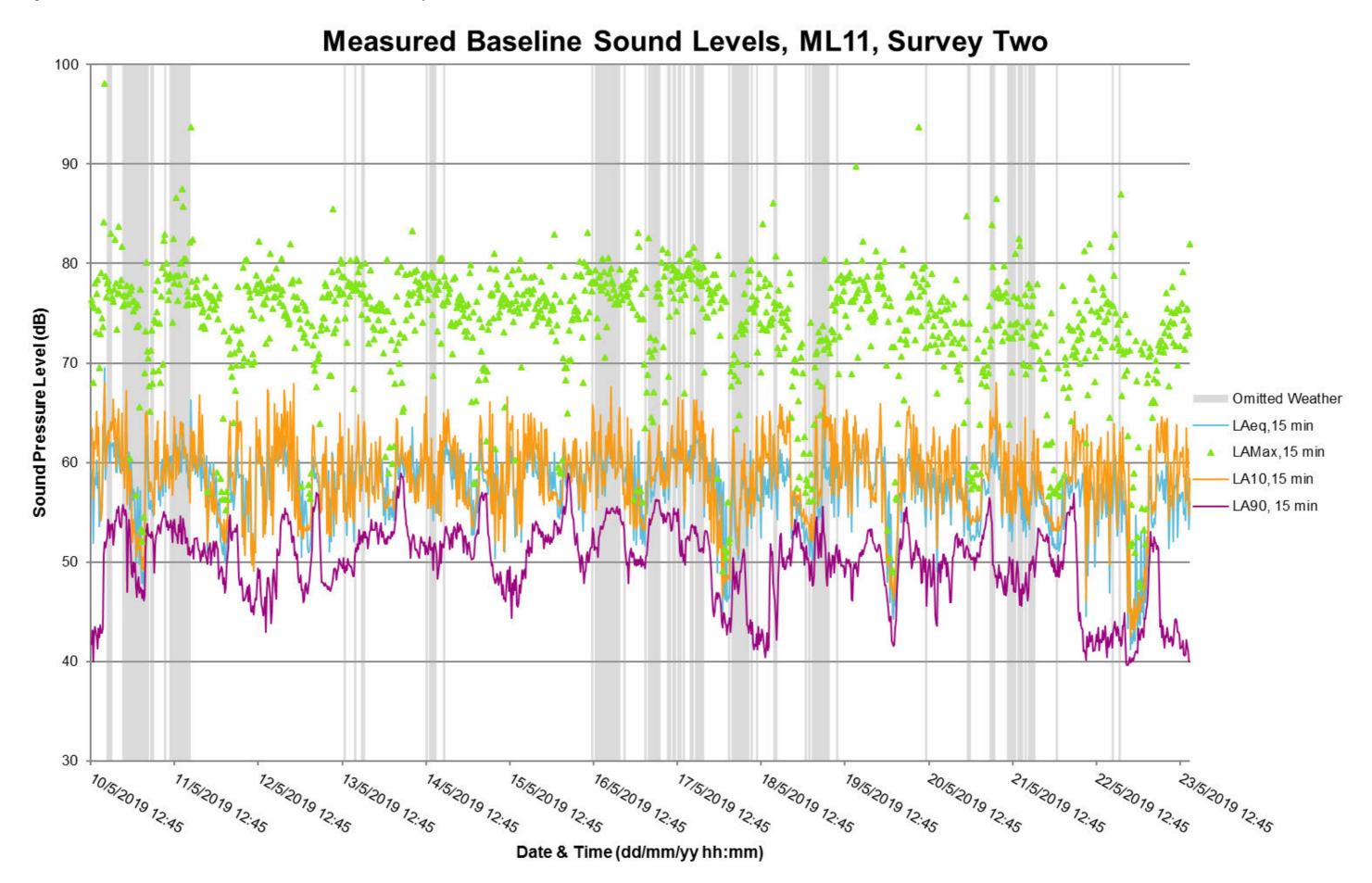


Figure 7.58: Measured Baseline Sound Levels – ML12 Survey 1

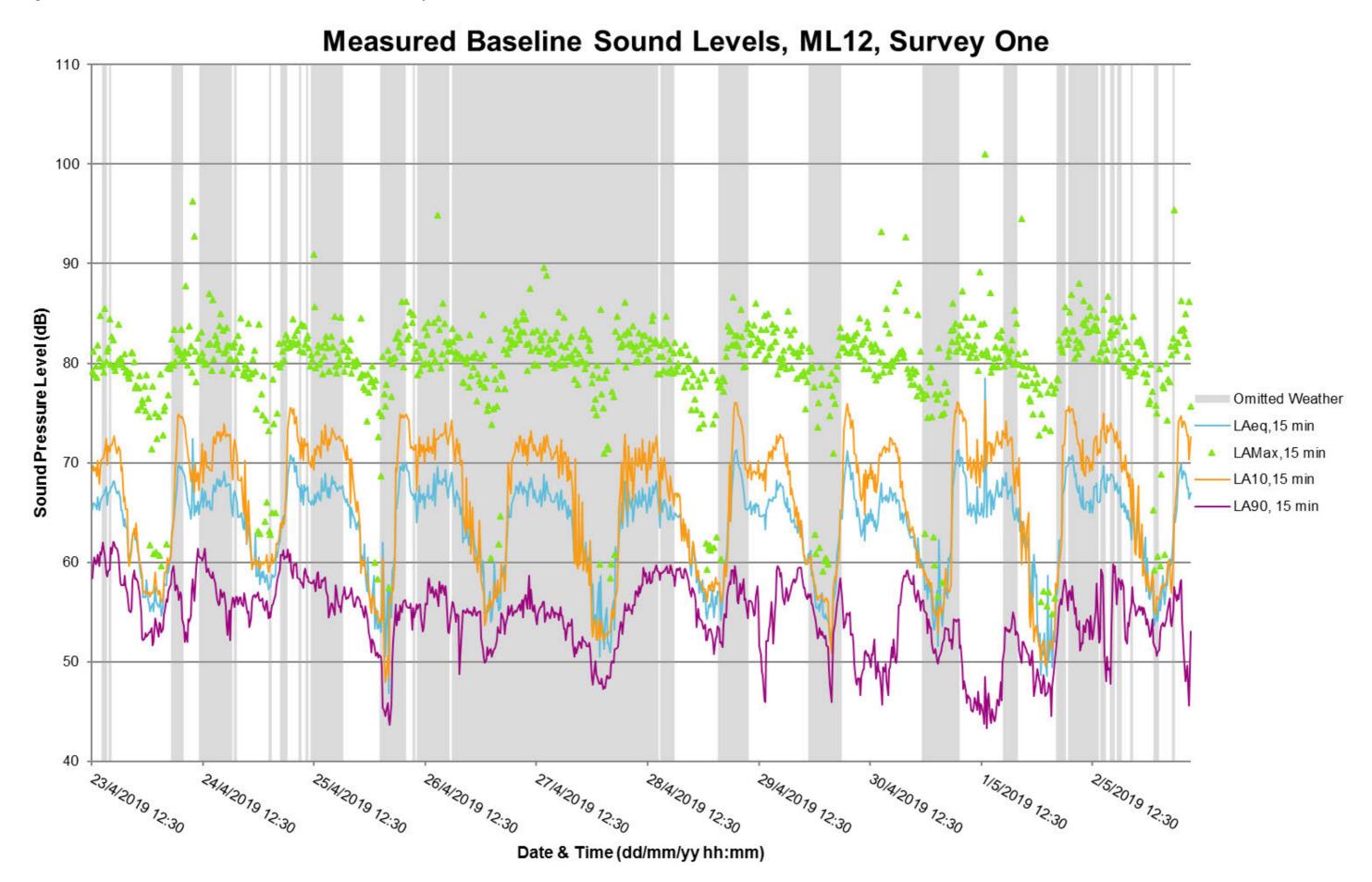


Figure 7.59: Measured Baseline Sound Levels – ML12 Survey 2

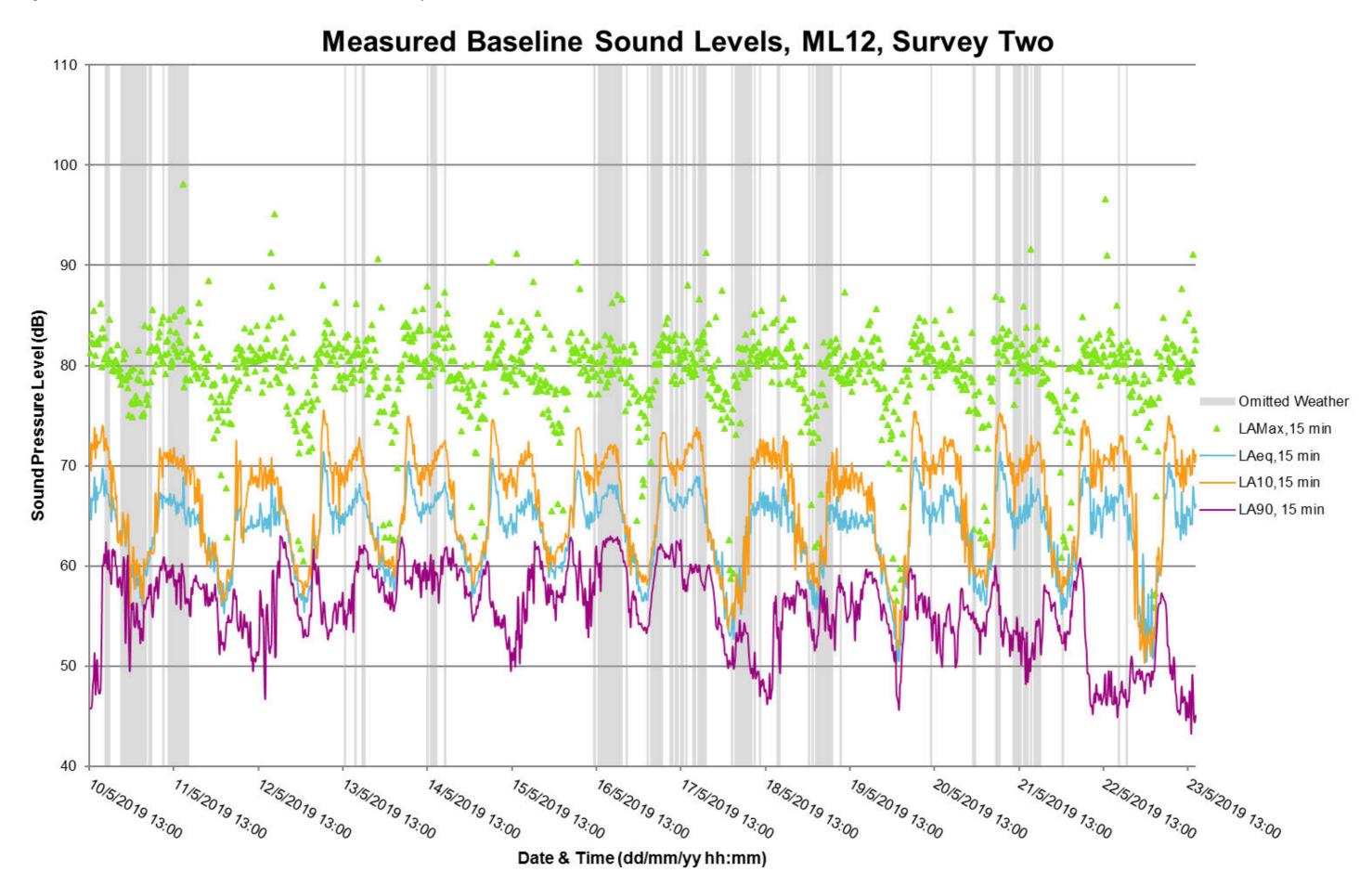


Figure 7.60: Measured Baseline Sound Levels – ML13

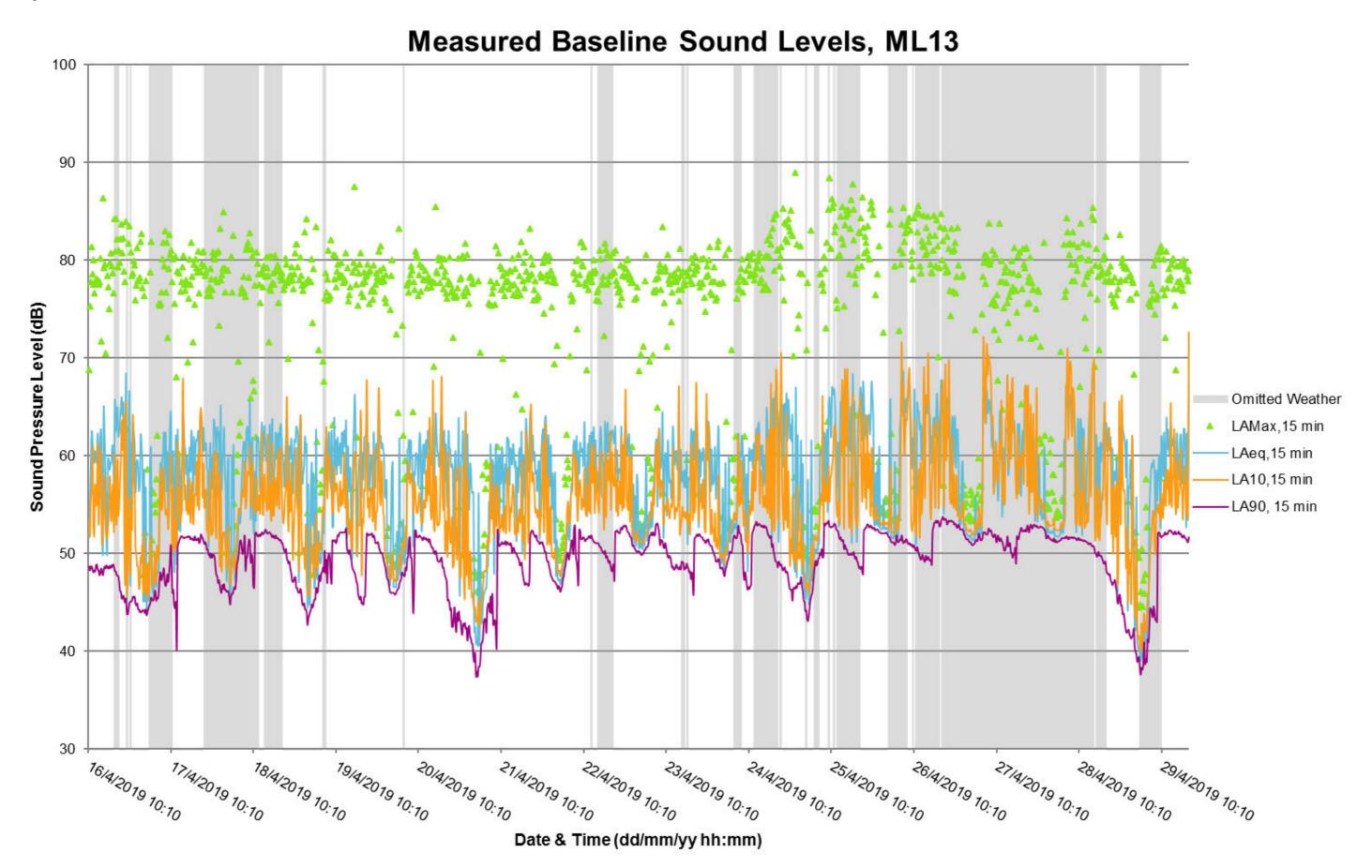


Figure 7.61: Measured Baseline Sound Levels – ML14

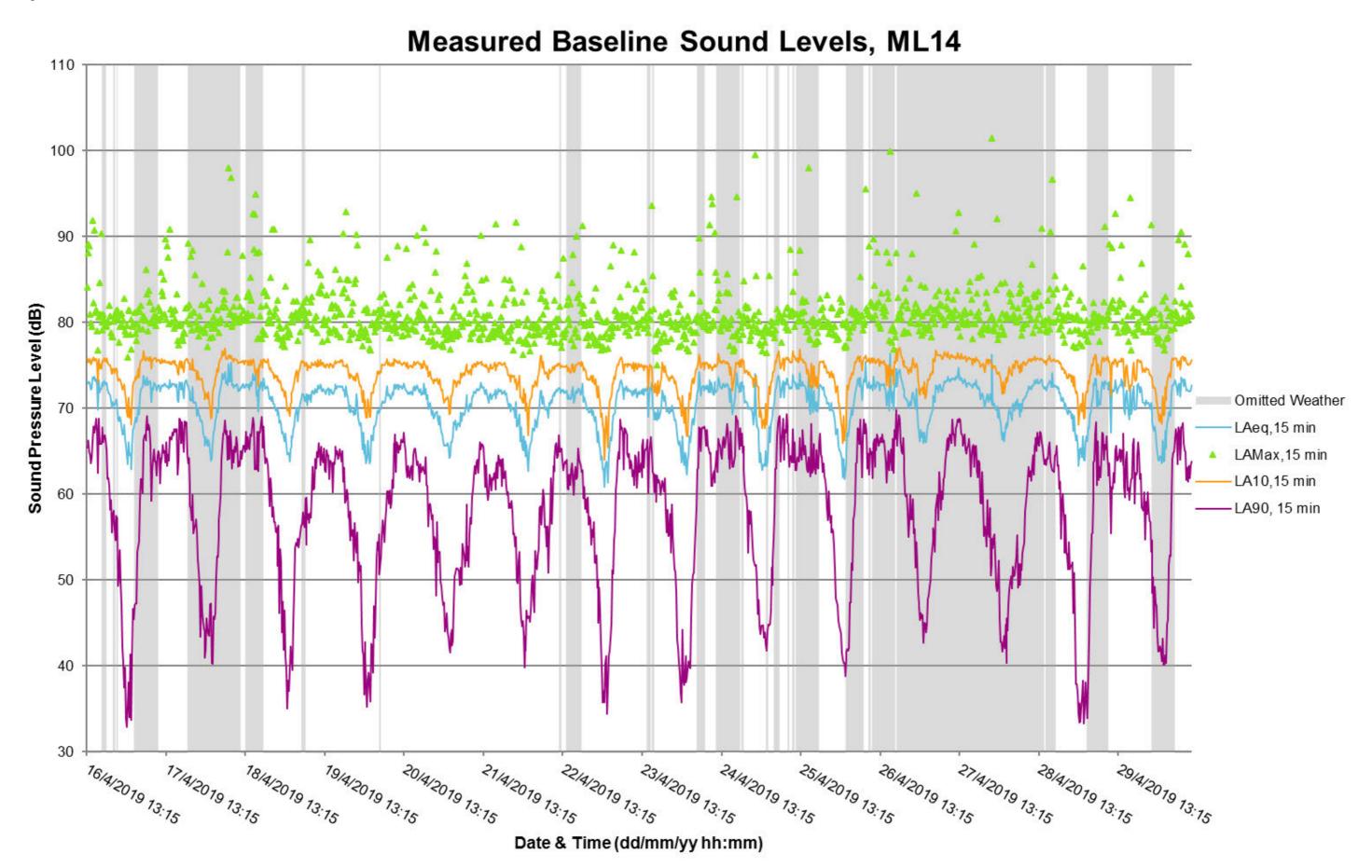


Figure 7.62: Measured Baseline Sound Levels – ML15

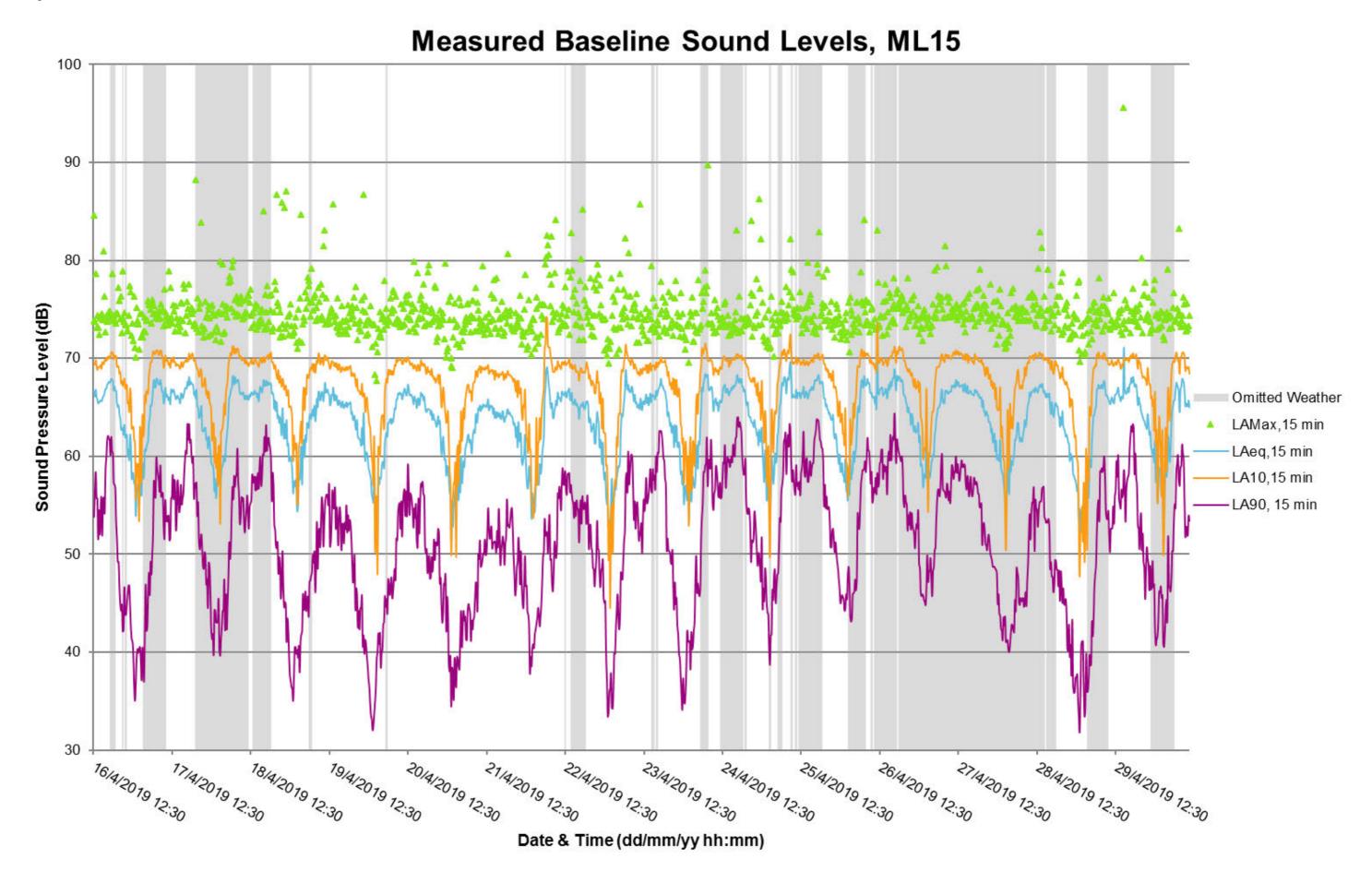


Figure 7.63: Measured Baseline Sound Levels – ML16

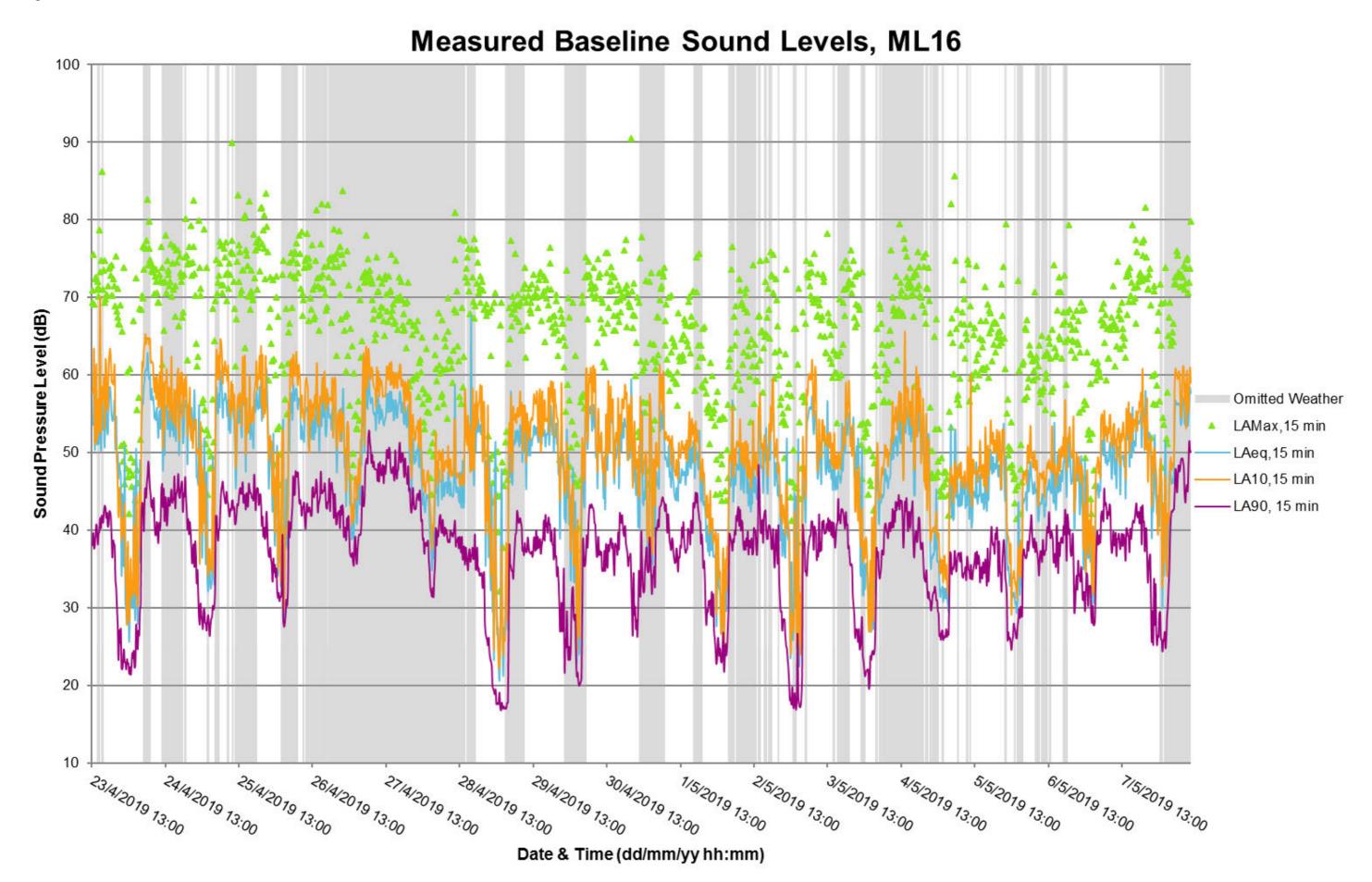


Figure 7.64: Measured Baseline Sound Levels – ML17 Survey 1

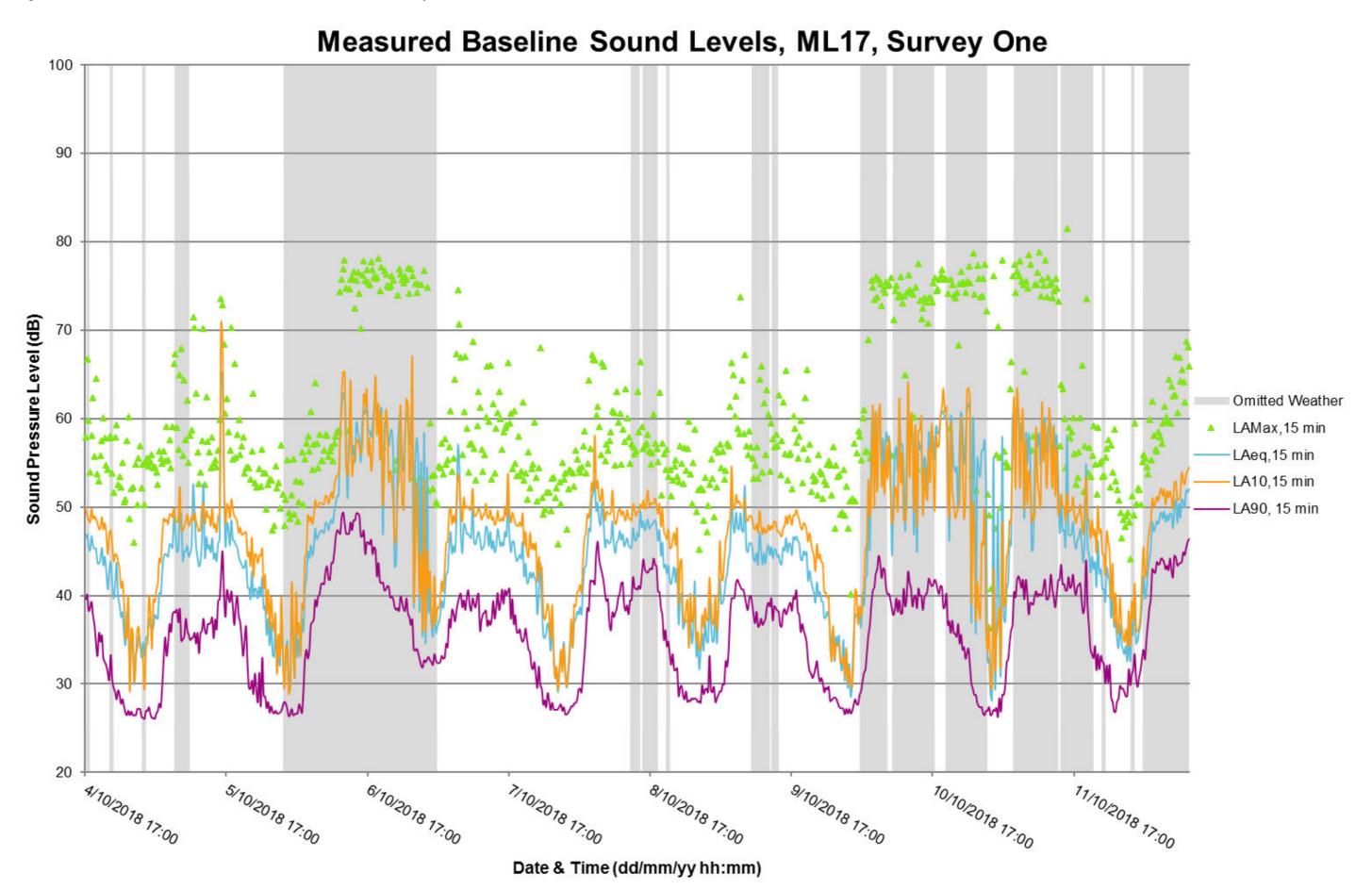


Figure 7.65: Measured Baseline Sound Levels – ML17 Survey 2

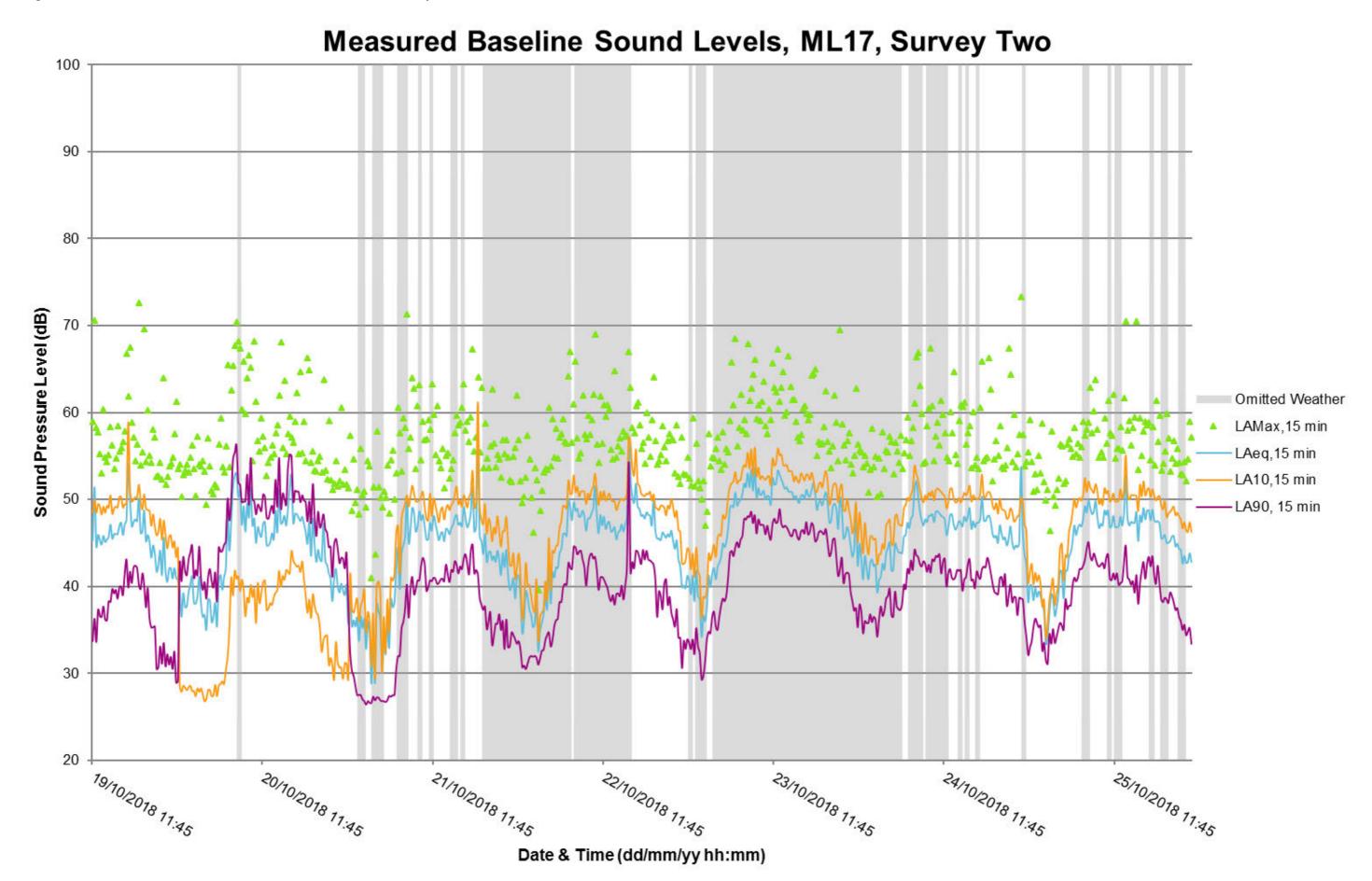


Figure 7.66: Measured Baseline Sound Levels – ML18

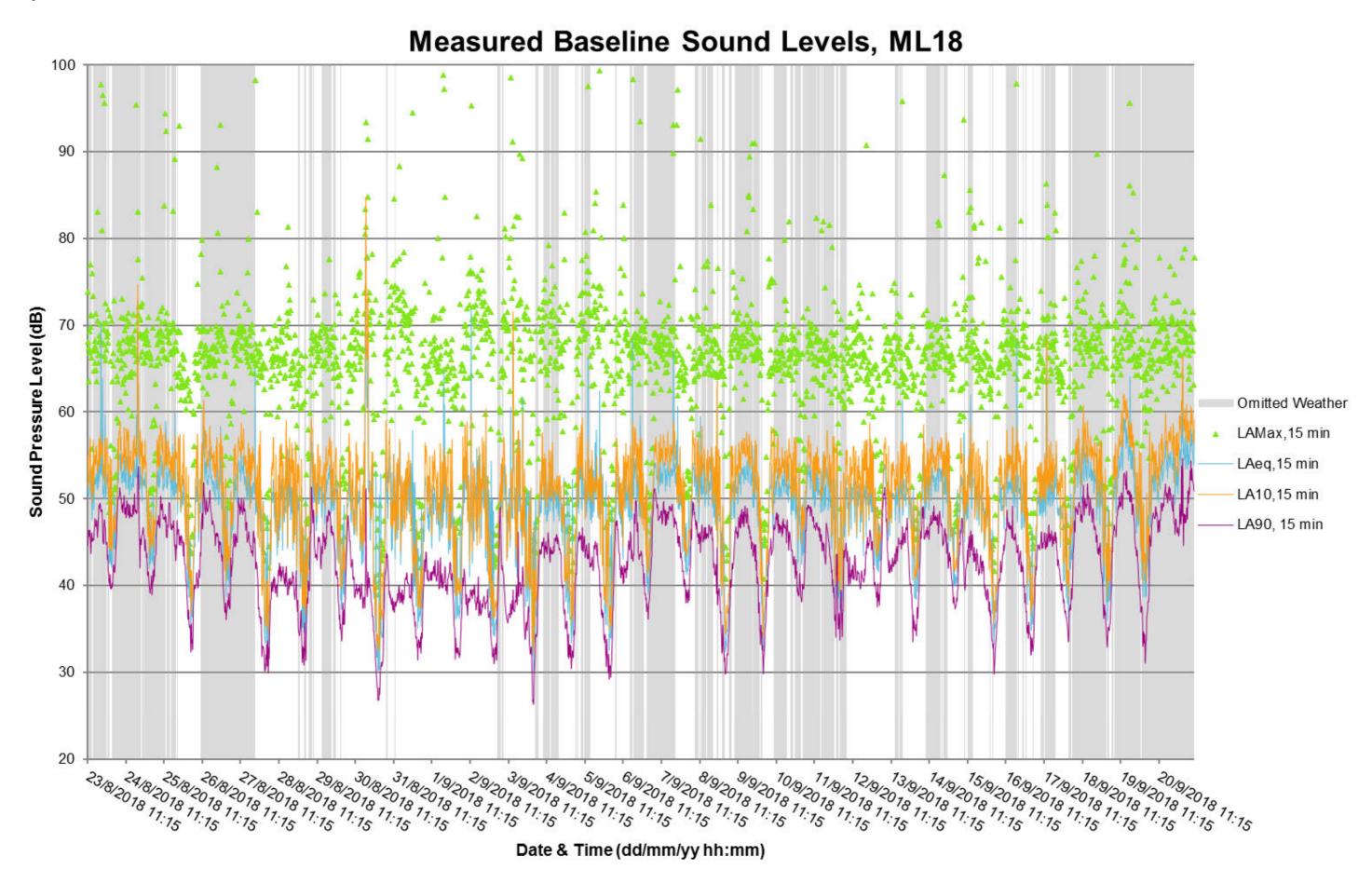


Figure 7.67: Measured Baseline Sound Levels – ML19

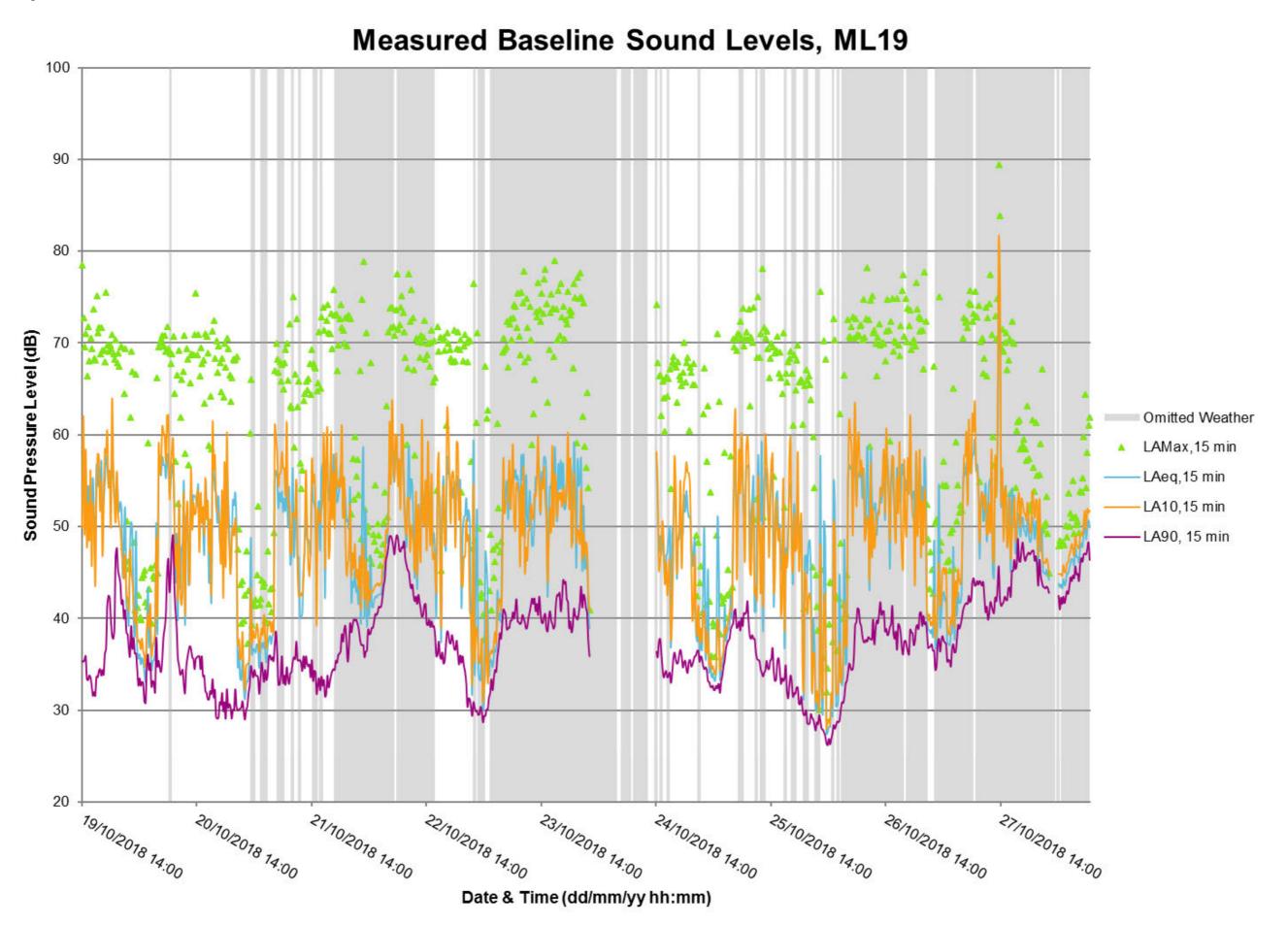


Figure 7.68: Measured Baseline Sound Levels – ML20 Survey 1

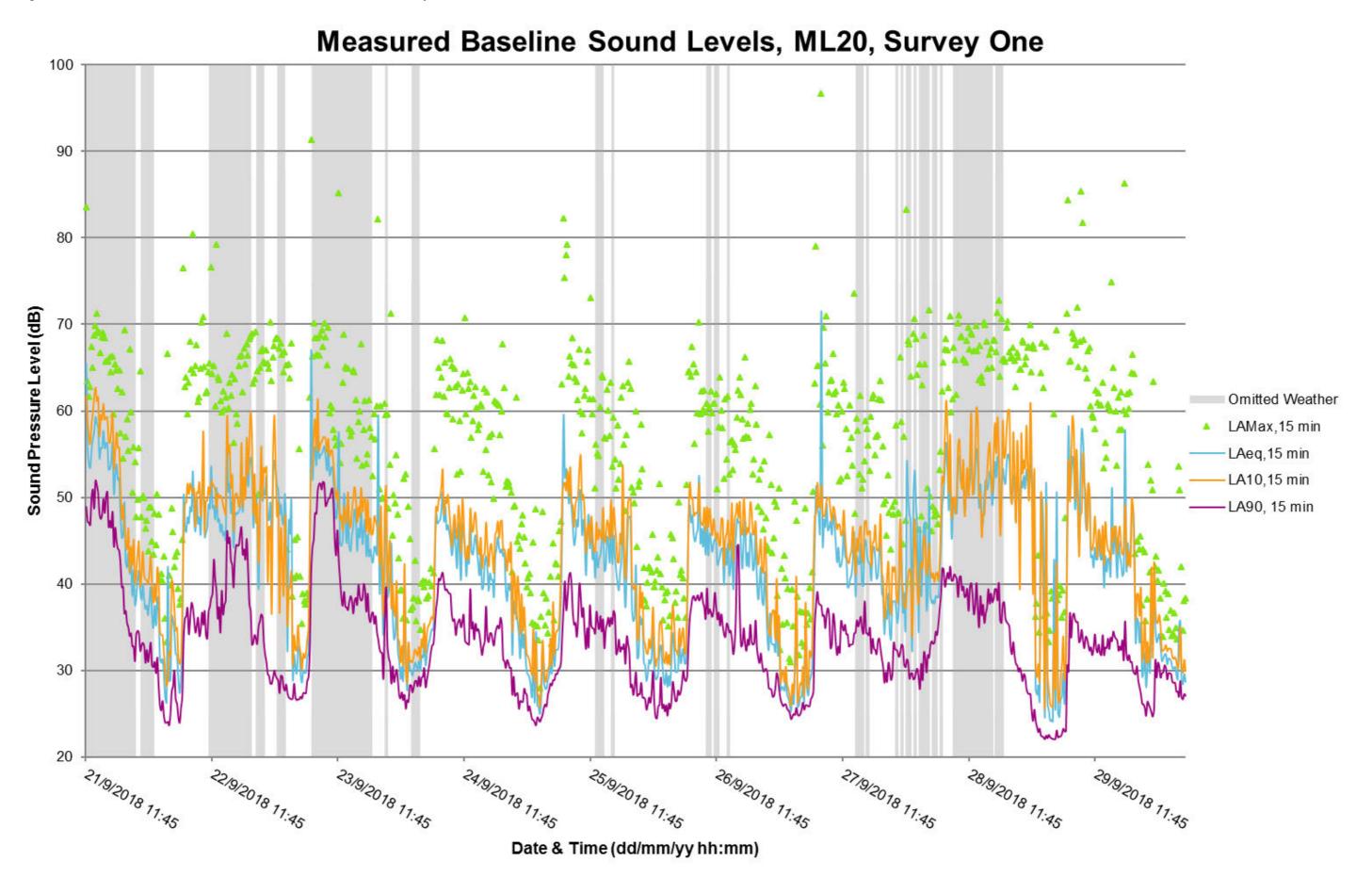


Figure 7.69: Measured Baseline Sound Levels – ML20 Survey 2

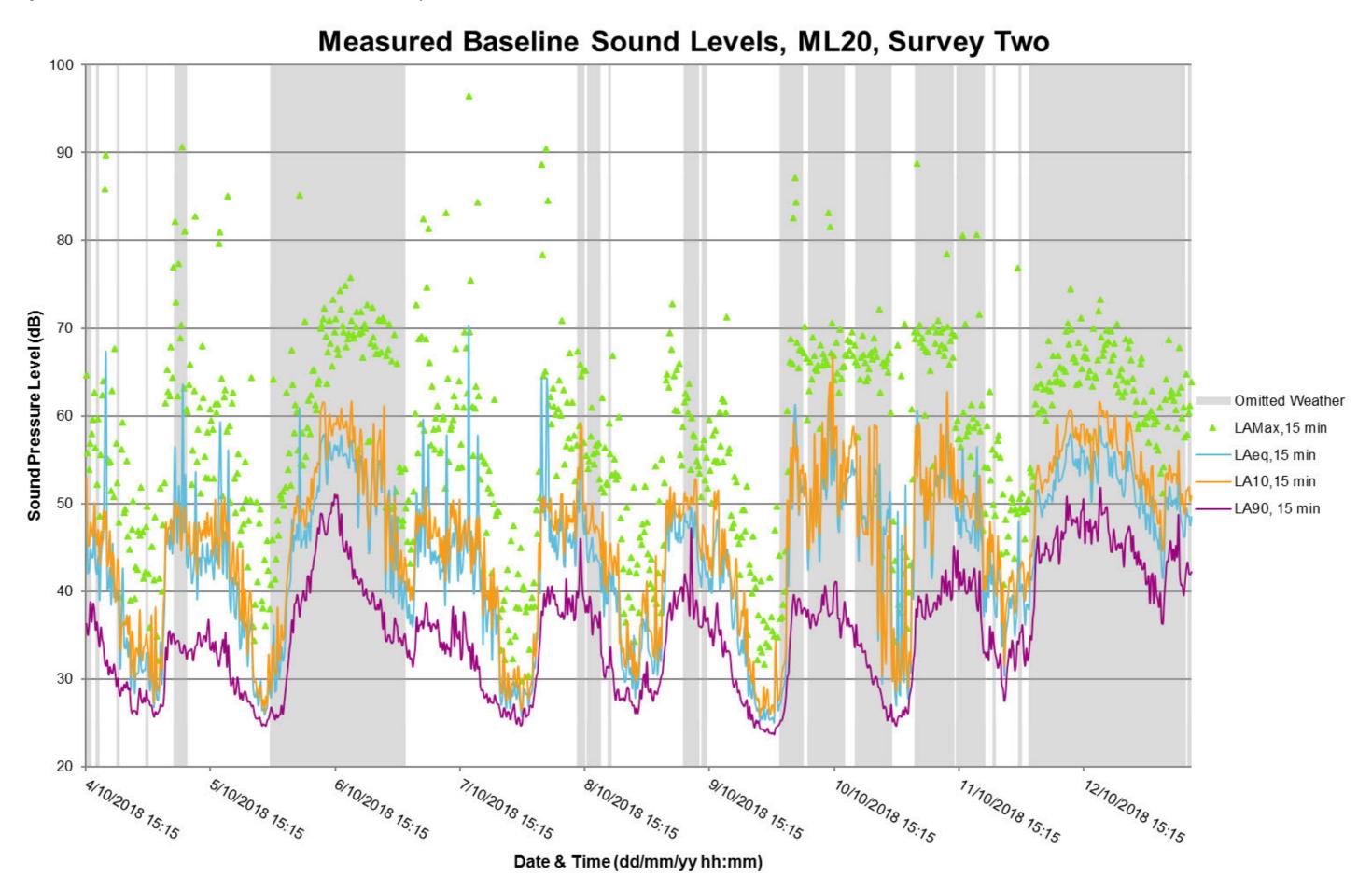


Figure 7.70: Measured Baseline Sound Levels – ML21

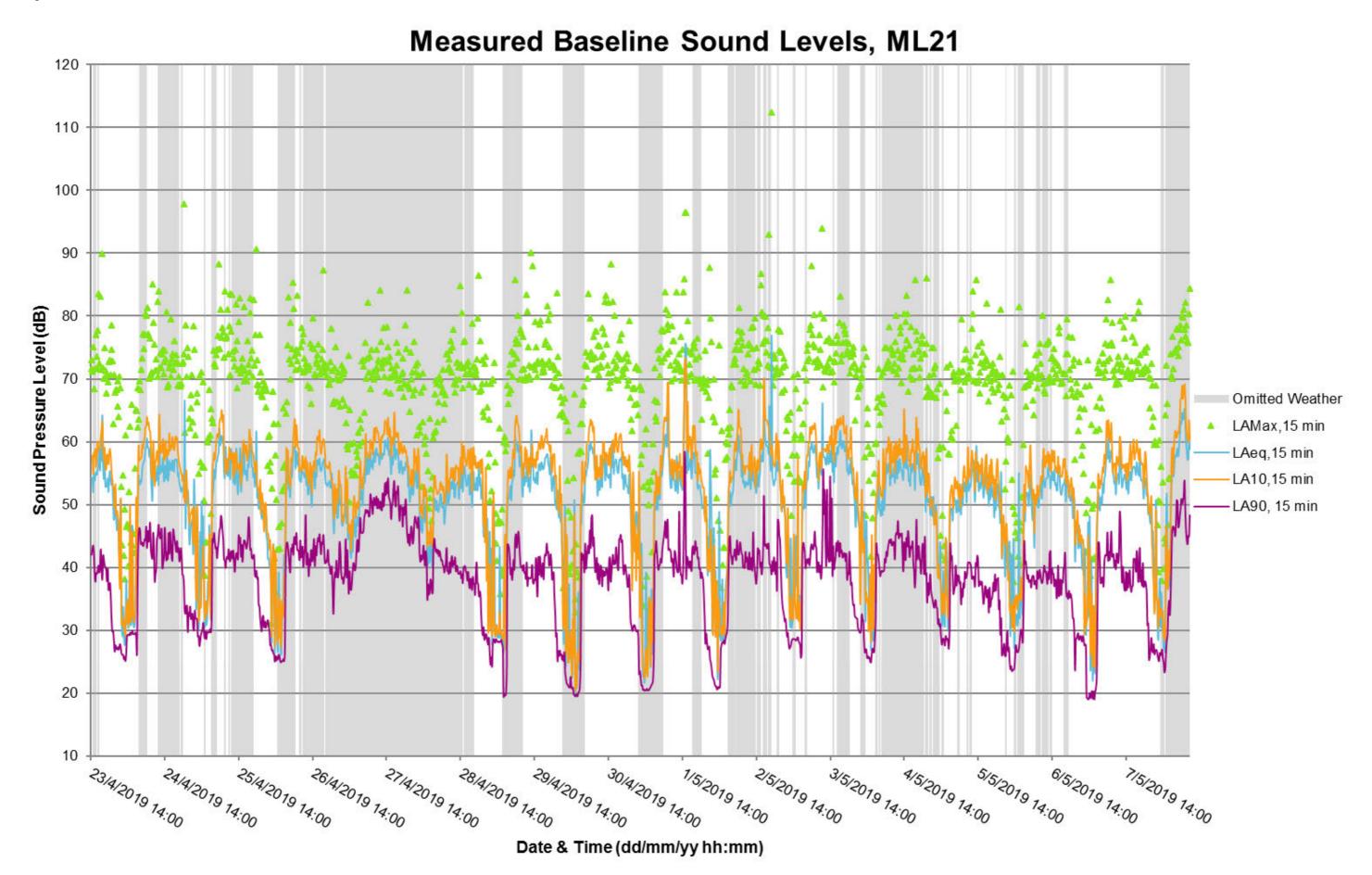


Figure 7.71: Measured Baseline Sound Levels – ML22 Survey 1

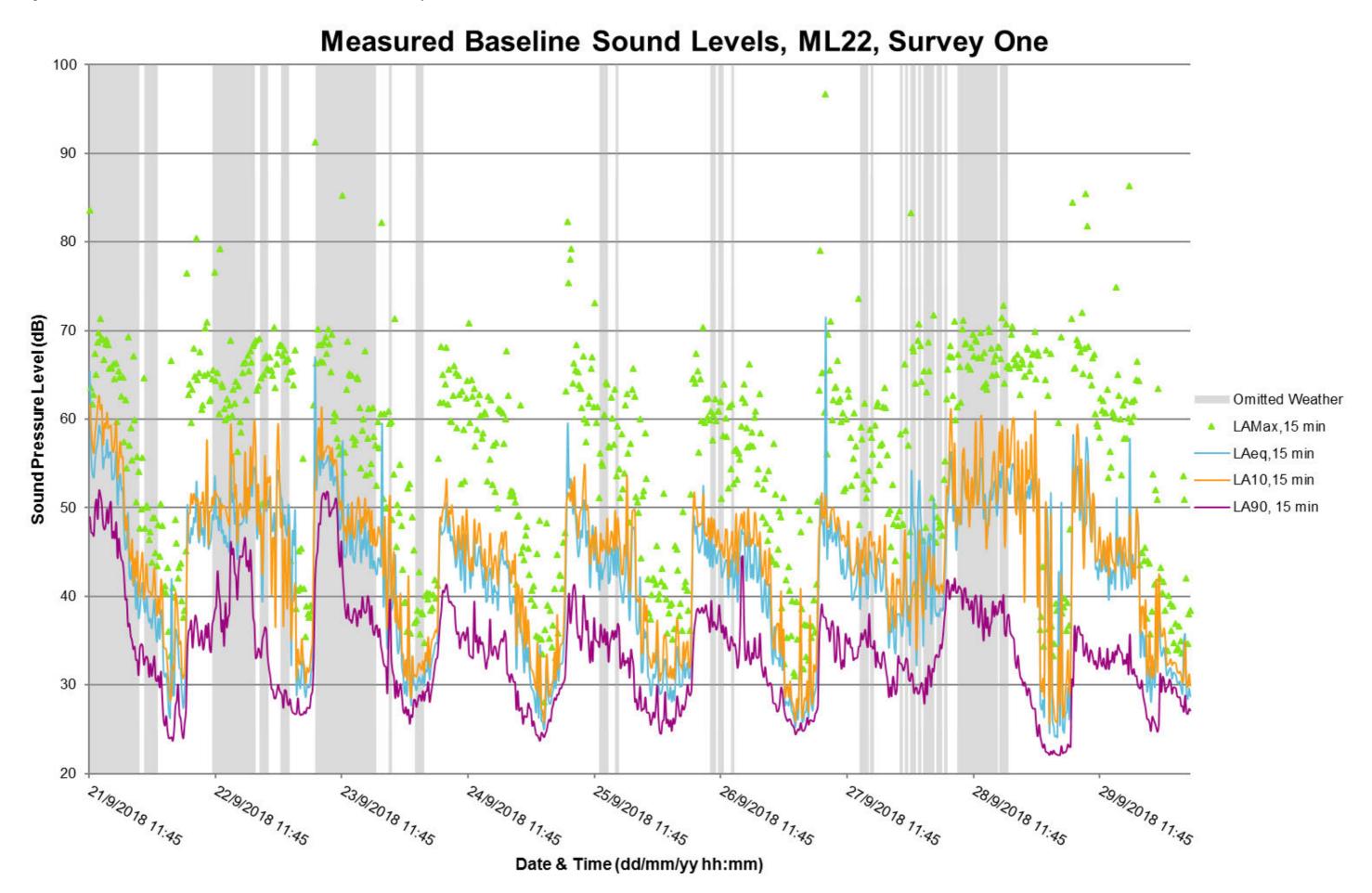


Figure 7.72: Measured Baseline Sound Levels – ML22 Survey 2

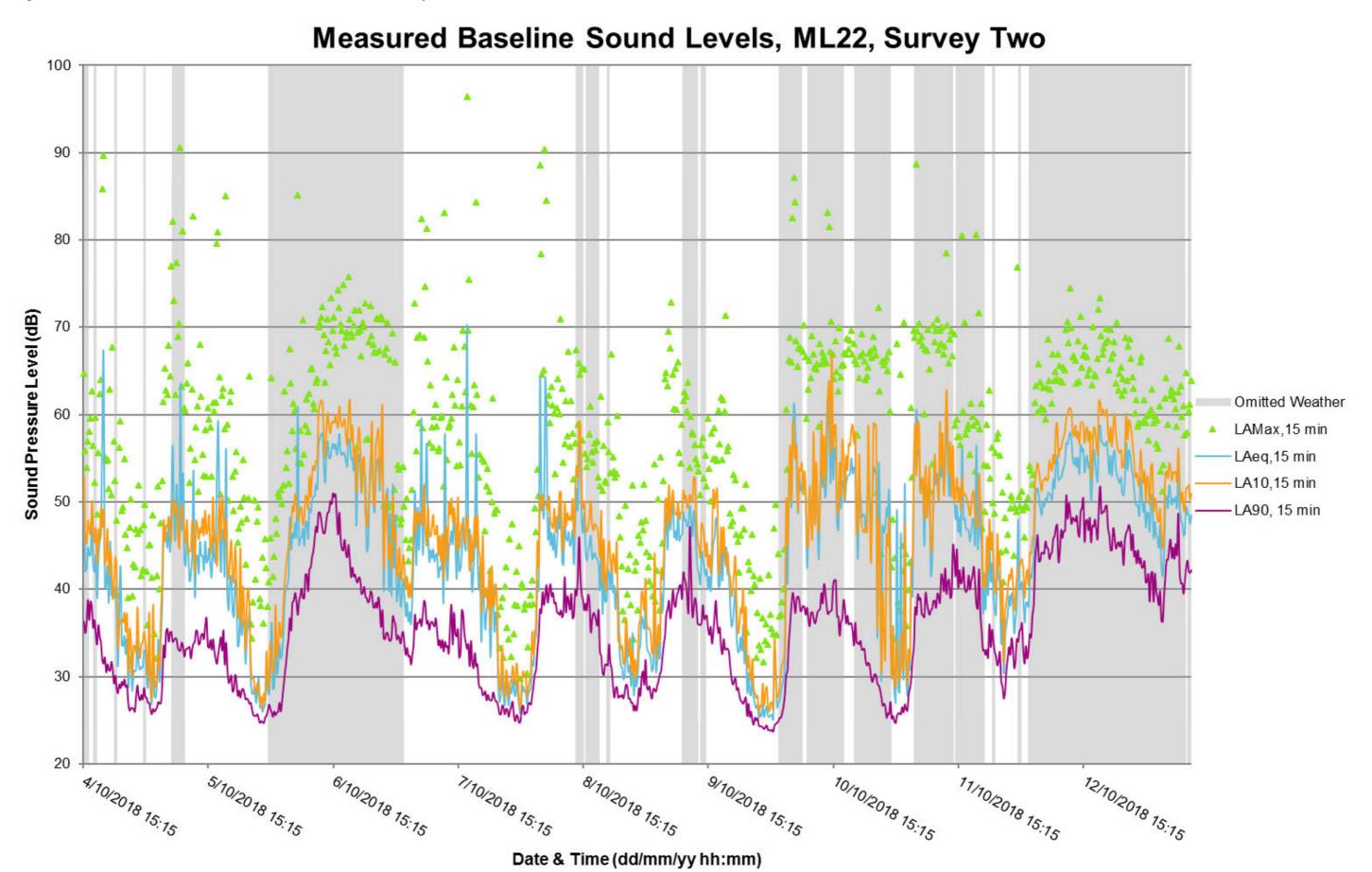


Figure 7.73: Measured Baseline Sound Levels – ML30 Survey 1

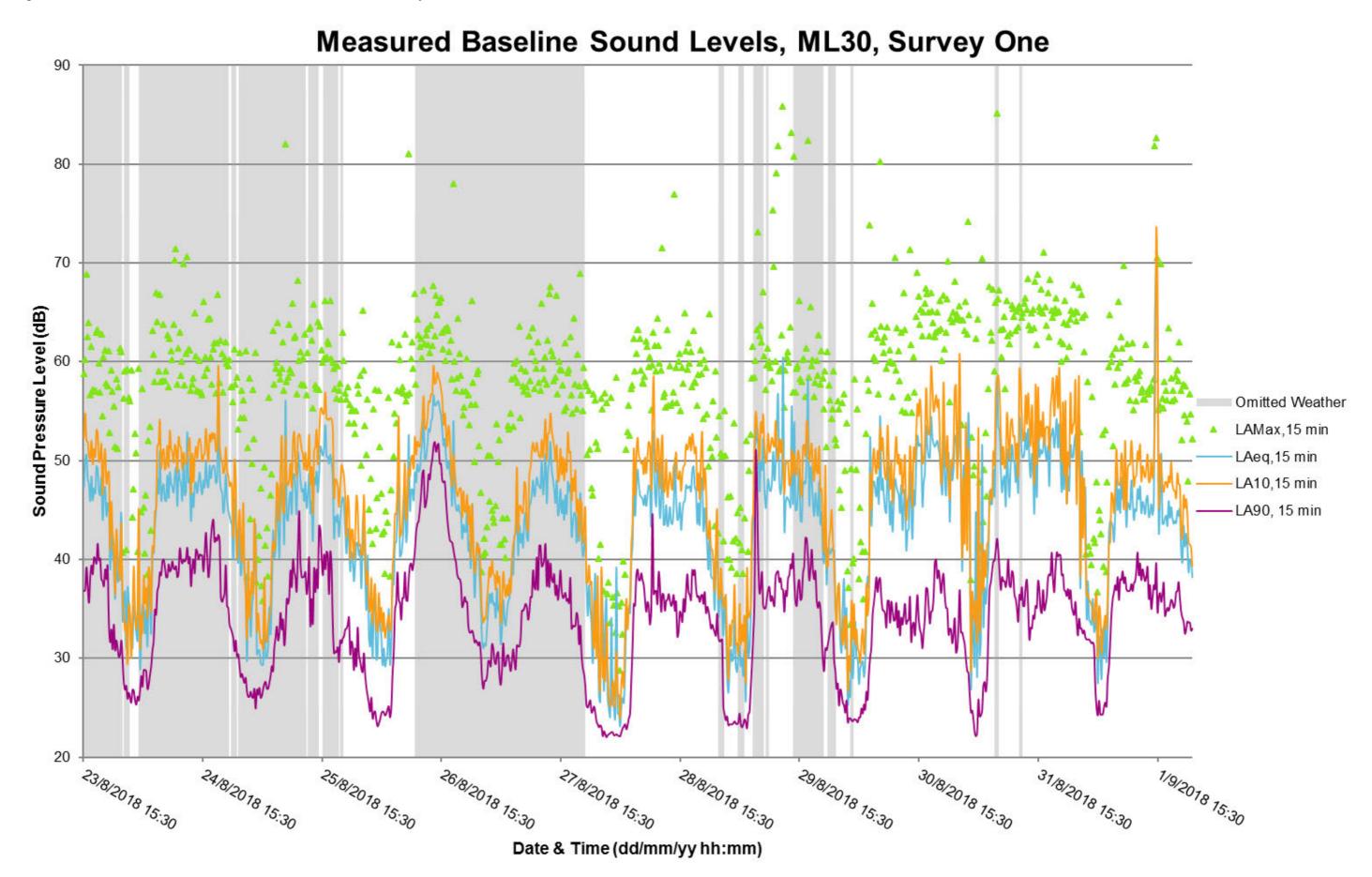


Figure 7.74: Measured Baseline Sound Levels – ML30 Survey 2

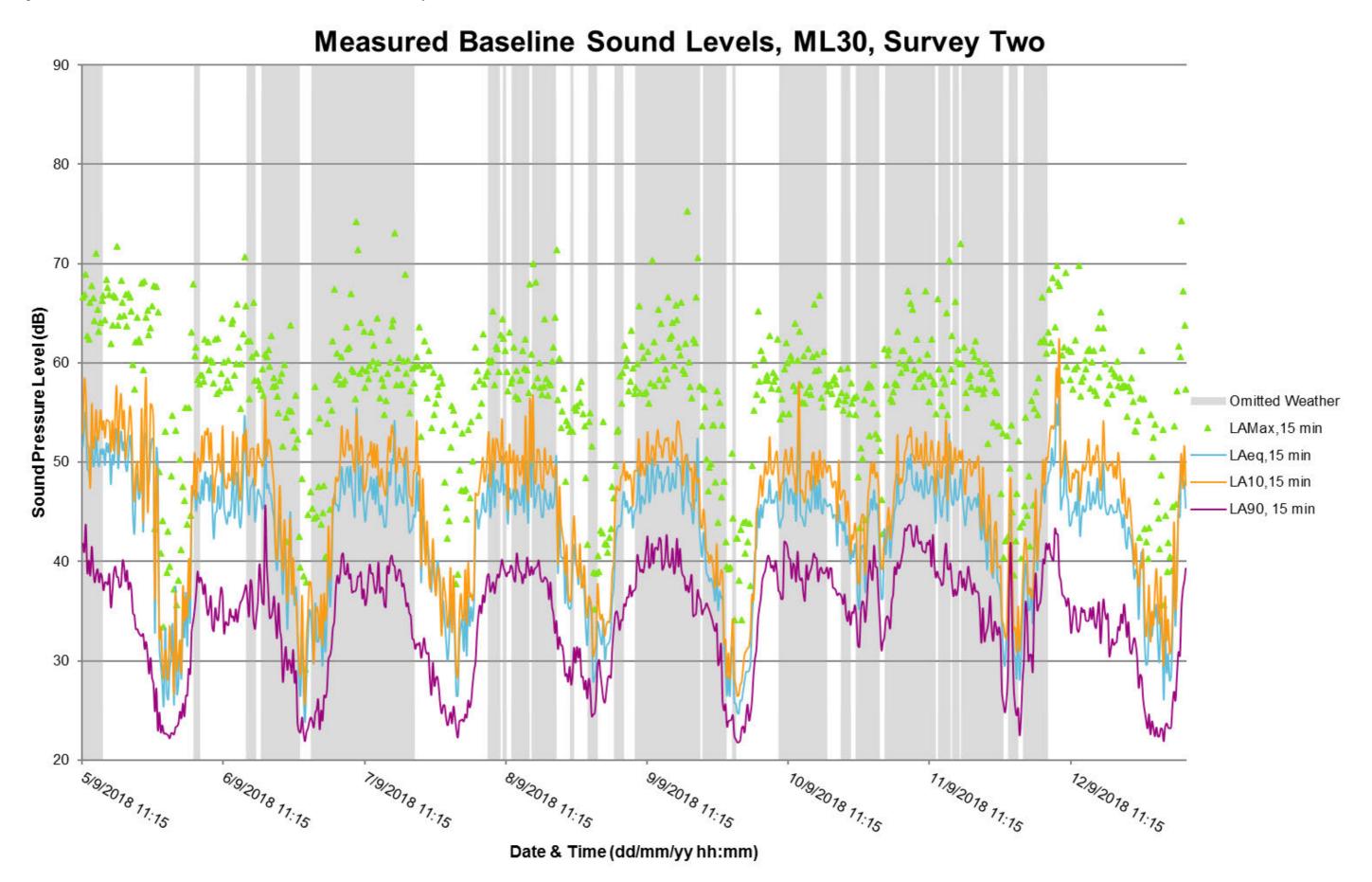


Figure 7.75: Measured Baseline Sound Levels – ML31 Survey 1

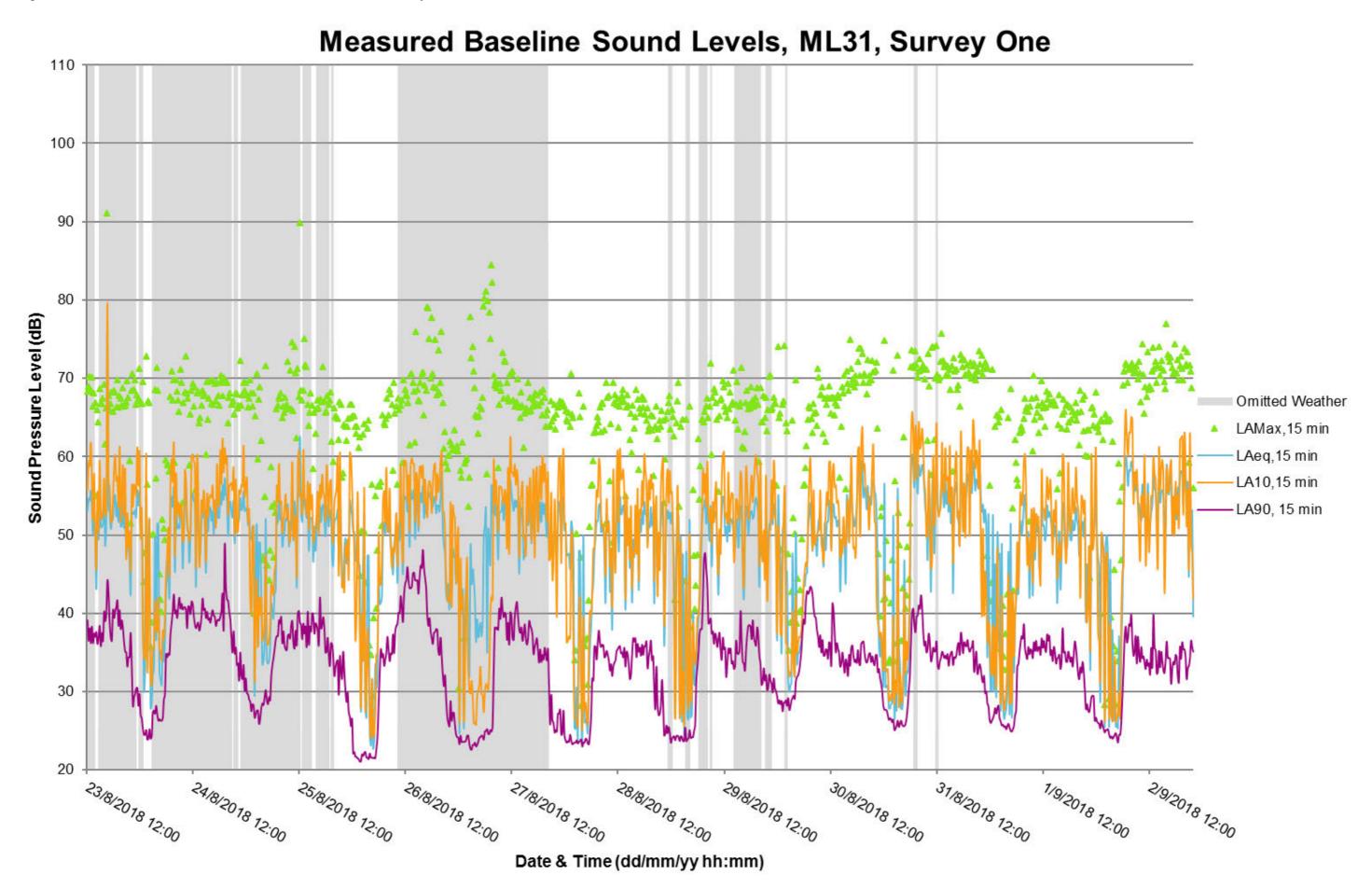


Figure 7.76: Measured Baseline Sound Levels – ML31 Survey 2

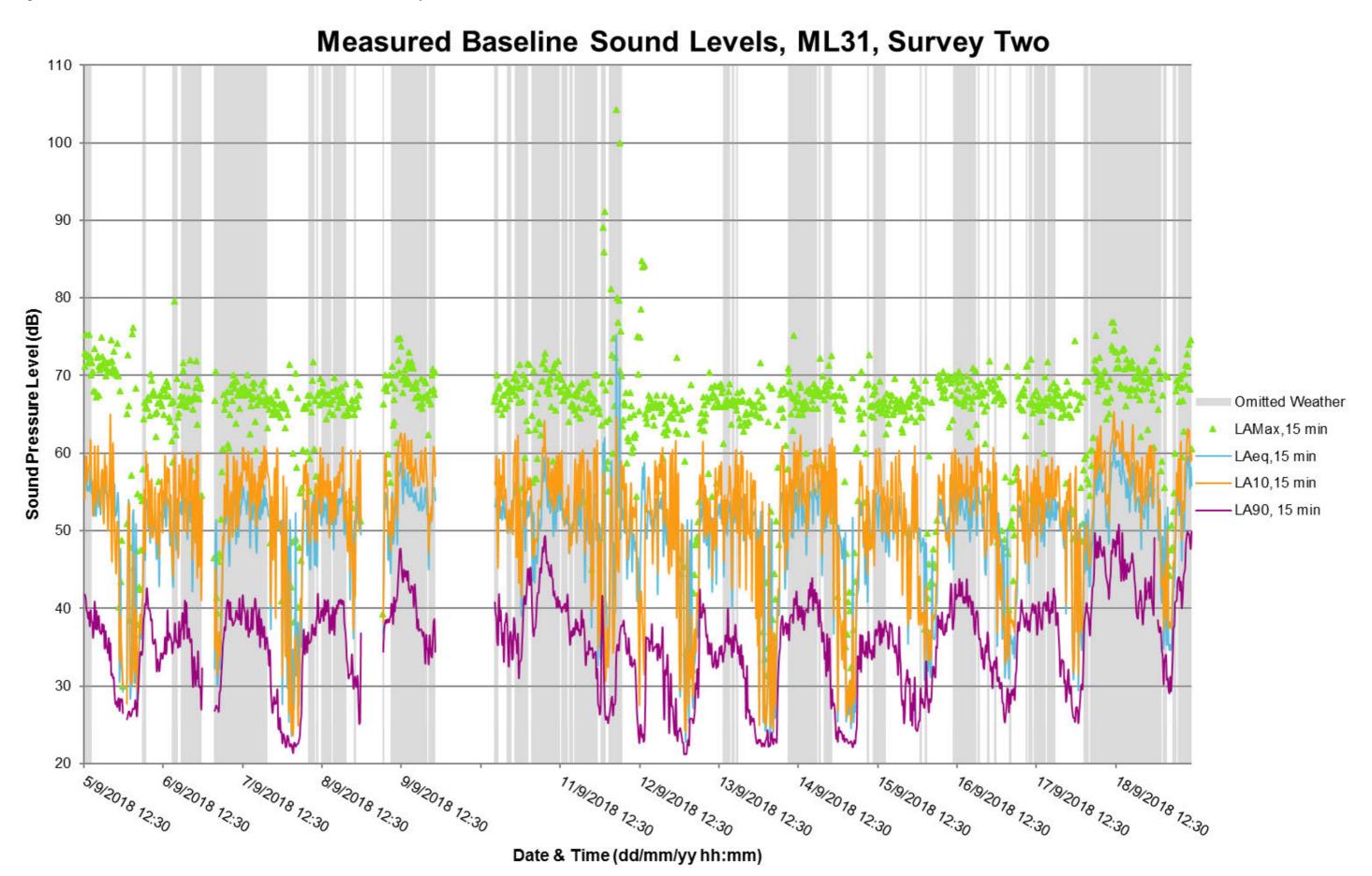


Figure 7.77: Measured Baseline Sound Levels – ML37

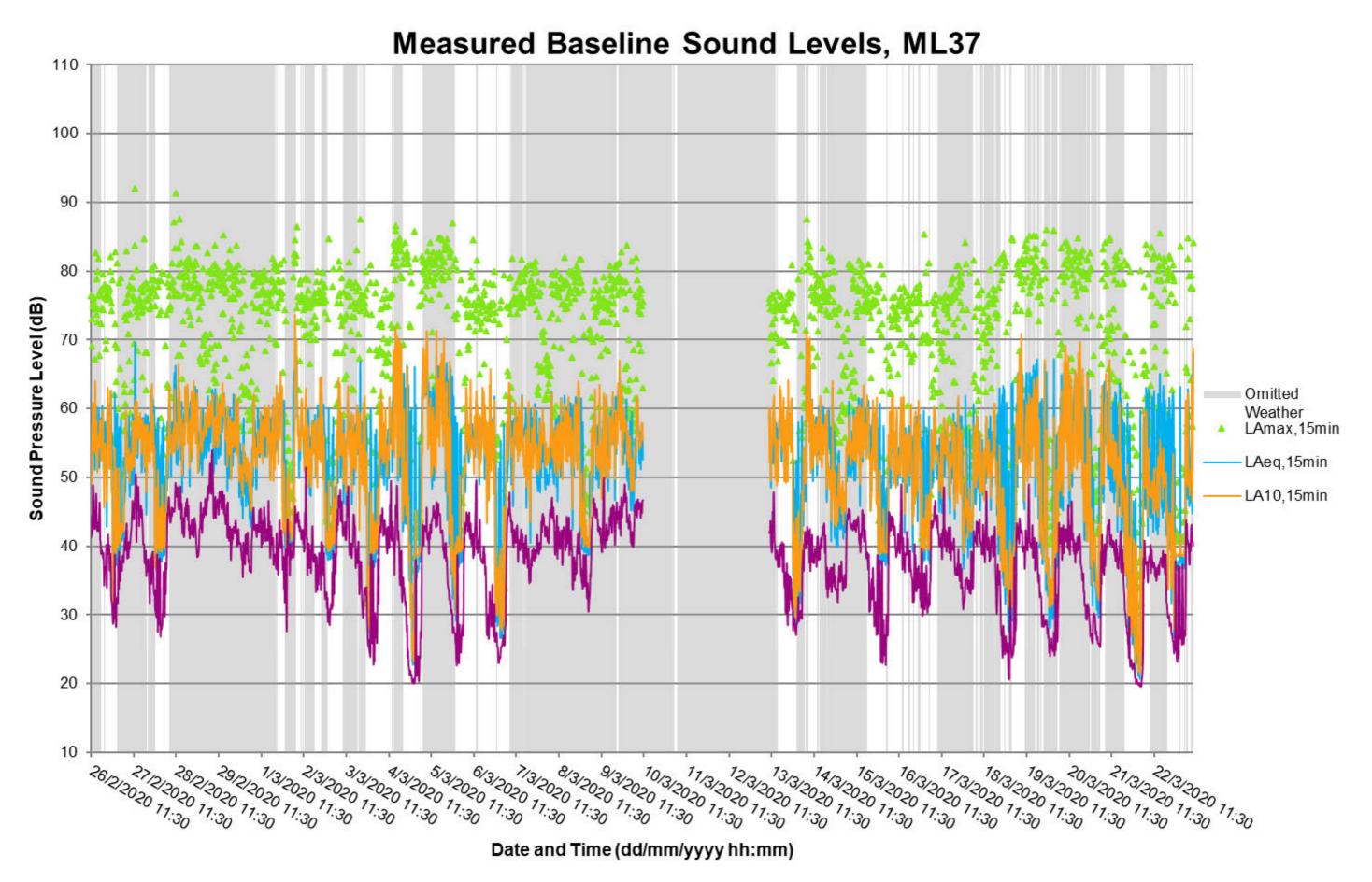
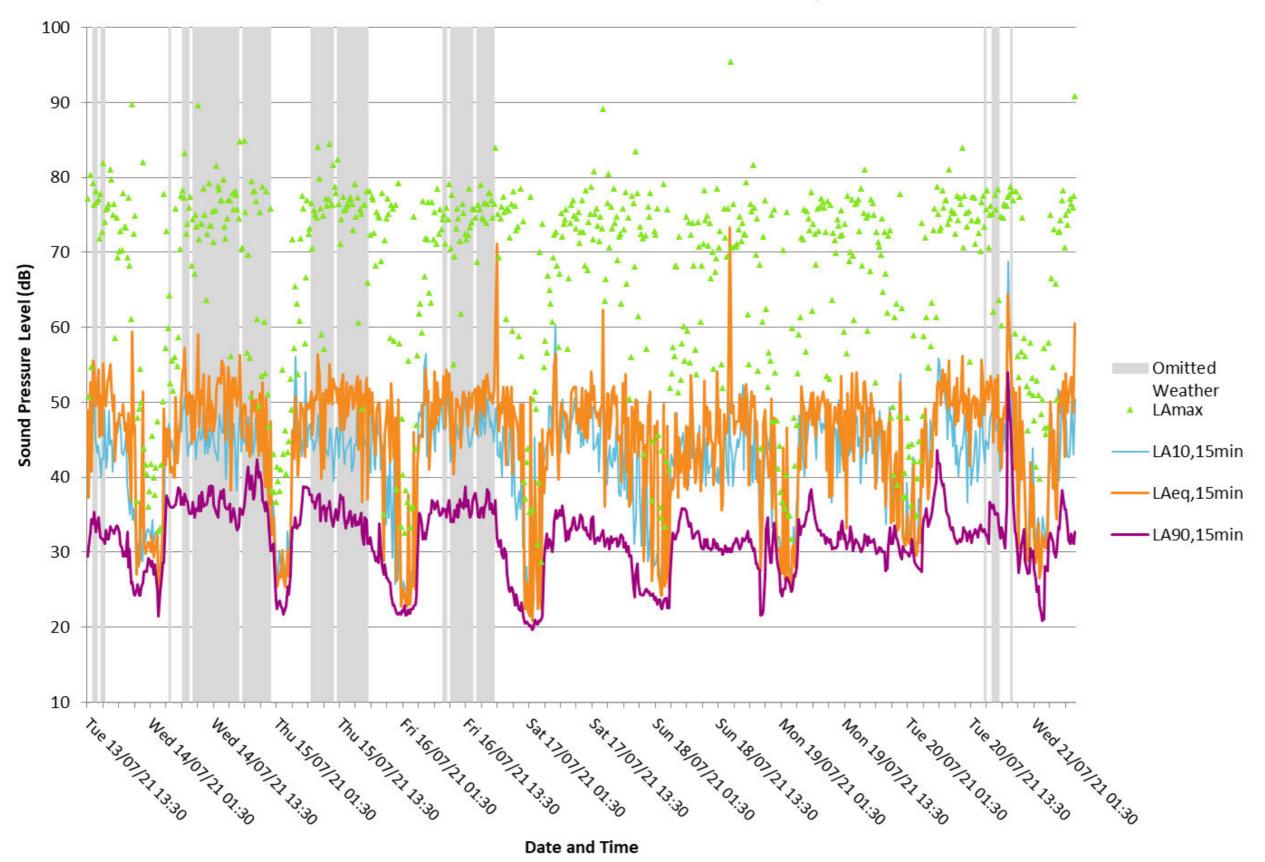


Figure 7.78: Measured Baseline Sound Levels – ML41

## Measured Baseline Sound Levels, ML41



## **REFERENCES**

Ref 1 British Standards Institute (2003), BS 7445-1 – Description and Measurement of Environmental Noise. BSi, London. Ref 2 British Standards Institute (2013), BS EN 61672-1:2013 Electroacoustics. Sound level meters - Specifications. BSi, London.