

## **Construction Noise and Vibration Monthly Report – June 2025**

**Warwick District Council**

<b>Non-Technical Summary</b>	<b>1</b>
<b>Abbreviations and Descriptions</b>	<b>3</b>
<b>1 Introduction</b>	<b>4</b>
1.2 Measurement Locations	6
<b>2 Summary of Results</b>	<b>8</b>
2.1 Summary of Measured Noise and Vibration Levels	8
2.2 Exceedances of the LOAEL and SOAEL	12
2.3 Exceedances of Trigger Level	15
2.4 Complaints	16
<b>Appendix A Site Locations</b>	<b>17</b>
<b>Appendix B Monitoring Locations</b>	<b>24</b>
<b>Appendix C Data</b>	<b>30</b>

## List of Tables

Table 1: Table of Abbreviations	3
Table 2: Monitoring Locations	7
Table 3: Summary of Measured dB $L_{Aeq}$ Data over the Monitoring Period	9
Table 4: Summary of Measured PPV Data over the Monitoring Period	12
Table 5: Summary of Exceedances of LOAEL and SOAEL	13
Table 6: Summary of Total Exceedances of SOAEL	15
Table 7: Summary of Exceedances of Trigger Levels	15
Table 8: Summary of Complaints	16

# Non-Technical Summary

This Noise and Vibration Monitoring Report fulfils HS2 Limited's commitment detailed in the Environmental Minimum Requirements (EMRs), Annex 1, Code of Construction Practice, to present the results of noise and vibration monitoring carried out within Warwick District Council (WDC) area during the month of June 2025.

Within this period noise and vibration monitoring was undertaken at the following worksites:

- Burton Green Tunnel worksite (ref.: BGT), where concrete pouring and shuttering were underway.
- Burton Green Tunnel South Portal worksite (ref.: BSP), where landscaping, backfilling and haul road diversions were underway.
- Bockenden Cutting worksite (ref.: BC), where landscaping, excavation backfilling and stockpiling were underway.
- Kenilworth Road Overbridge worksite (ref.: A429), where backfilling, wall installation, landscaping, road realignment, excavation and watercourse realignment were underway.
- A46 Compound worksite (ref.: A46C) where haul road assembly, lifting, earthworks, crushing, excavation, use of dust suppression and utility works were underway.
- Stoneleigh Village worksite (ref.: SV), where overbridge realignment was underway.
- Stoneleigh Park worksite (ref.: SP), where dust suppression, earthworks, pile cropping and concrete treatment preparation were underway.
- Cubbington Road worksite (ref.: C), where water utility works, abutment works, concrete treatment works, concrete screeding of pile caps, installation of beam jacking systems, access stair installation, earthworks and kerb installation were underway.
- Offchurch Cutting worksite (ref.: OC), where earthworks, dust suppression, lime stabilisation, drainage installation, soil stabilisation, backfilling, water utilities testing, water proofing, vegetation clearance, duct installation, excavation, haul road maintenance, deliveries and landscaping were underway.

The HS2 threshold levels for significant noise impacts, which are defined in Information Paper E23 (<https://www.gov.uk/government/publications/hs2-information-papers-environment>), were exceeded due to HS2 works on two (2) occasions during June 2025.

There were no exceedance(s) of trigger levels as defined in section 61 consents during the reporting period.

One (1) complaint regarding noise and vibration was received by HS2 during the monitoring period.

# Abbreviations and Descriptions

The abbreviations, descriptions and project terminology used within this report can be found in Table 1.

Table 1: Table of Abbreviations

Acronym/Term	Definition
$L_{Aeq,T}$	See equivalent continuous sound pressure level
Ambient sound	A description of the all-encompassing sound at a given location and time which will include sound from many sources near and far. Ambient sound can be quantified in terms of the equivalent continuous sound pressure level, $L_{pAeq,T}$
Decibel(s), or dB	Between the quietest audible sound and the loudest tolerable sound there is a million to one ratio in sound pressure (measured in Pascal (Pa)). Because of this wide range, a level scale called the decibel (dB) scale, based on a logarithmic ratio, is used in sound measurement. Audibility of sound covers a range of approximately 0-140dB.
Decibel(s) A-weighted, or dB(A)	The human ear system does not respond uniformly to sound across the detectable frequency range and consequently instrumentation used to measure sound is weighted to represent the performance of the ear. This is known as the 'A weighting' and is written as 'dB(A)'.
Equivalent continuous sound pressure level, or $L_{Aeq,T}$	An index used internationally for the assessment of environmental sound impacts. It is defined as the notional unchanging level that would, over a given period of time (T), deliver the same sound energy as the actual time-varying sound over the same period. Hence fluctuating sound levels can be described in terms of an equivalent single figure value, typically expressed as a decibel level.
Exclusion of data	Measurement of noise levels can be affected by weather conditions such as prolonged periods of rain, winds speeds higher than 5m/s and snow/ice ground cover. Noise levels measured during these periods are considered not representative of normal noise conditions at the site and, for the purposes of this report, are excluded from the assessment of exceedances and calculation of typical noise levels and are also greyed out in charts. Identifiable incongruous noise and vibration events not attributable to HS2 construction noise are also excluded.
Façade	A facade noise level is the noise level 1m in front of a large reflecting surface. The effect of reflection, is to produce a slightly higher (typically +3 dB) sound level than it would be if the reflecting surface was not there.
Free-field	A free-field noise level is the noise level measured at a location where no reflective surfaces, other than the ground, lies within 3.5 metres of the microphone position.
LOAEL	Lowest Observed Adverse Effect Level - the level above which adverse effects on health and quality of life can be detected.
Peak particle velocity, or PPV	Instantaneous maximum velocity reached by a vibrating element as it oscillates about its rest position. The PPV is a simple indicator of perceptibility and risk of damage to structures due to vibration. It is usually measured in mm/s.
SOAEL	Significant Observed Adverse Effect Level - the level above which significant adverse effects on health and quality of life occur.
Sound pressure level	The parameter by which sound levels are measured in air. It is measured in decibels. The threshold of hearing has been set at 0dB, while the threshold of pain is approximately 120dB. Normal speech is approximately 60dB at a distance of 1 metre and a change of 3dB in a time varying sound signal is commonly regarded as being just detectable. A change of 10dB is subjectively twice, or half, as loud.
Vibration dose value, or VDV	An index used to evaluate human exposure to vibration in buildings. While the PPV provides information regarding the magnitude of single vibration events, the VDV provides a measure of the total vibration experienced over a specified period of time (typically 16h daytime and 8h night-time). It takes into account the magnitude, the number and the duration of vibration events and can be used to quantify exposure to continuous, impulsive, occasional and intermittent vibration. The vibration dose value is measured in $m/s^{1.75}$ .

# 1 Introduction

- 1.1.1 HS2 is required to undertake noise (and vibration) monitoring as necessary to comply with the requirements of the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, including specifically Annex 1: Code of Construction Practice, in addition to any monitoring requirements arising from conditions imposed through consents under Section 61 of the Control of Pollution Act, 1974 or through Undertakings & Assurances given to third parties. Such monitoring June be undertaken for the following purposes:
- monitoring the impact of construction works;
  - to investigate complaints, incidents and exceedance of trigger levels; or
  - monitoring the effectiveness of noise and vibration control measures.
- 1.1.2 Monitoring data and interpretive reports are to be provided to each relevant local authority on a monthly basis and shall include a summary of the construction activities occurring, the data recorded over the monitoring period, any complaints received, any periods in exceedance of agreed trigger levels, the results of any investigations and any actions taken or mitigation measures implemented. This report provides noise data, and interpretation thereof, for monitoring carried out by HS2 within the Warwick District Council (WDC) area for the period 1<sup>st</sup> to 30<sup>th</sup> June 2025.
- 1.1.3 Construction sites in the local authority area where noise and vibration monitoring were undertaken during this period include:
- Burton Green Tunnel worksite (ref.: BGT, see plan 1 in Appendix A) where work activities included:
    - Concrete pouring.
    - Shuttering.
  - Burton Green Tunnel Southern Portal worksite (ref.: BSP, see plan 1 in Appendix A) where work activities included:
    - Landscaping.
    - Backfilling.
    - Haul road diversions.
  - Bockenden Cutting worksite (ref.: BC, see plan 1 in Appendix A), where no works were included:
    - Landscaping
    - Dig and replace including backfilling and stockpiling.

- Backfilling.
  - Stockpiling.
- A429 Kenilworth Road Overbridge worksite (ref.: A429, see plan 2 in Appendix A), where work activities included:
  - Backfilling.
  - Wall installation.
  - Landscaping.
  - Road realignment, including backfilling, drainage and earthworks.
  - Excavation including stockpiling.
  - Watercourse realignment.
- A46 Compound worksite (ref.: A46C, see plan 3 in Appendix A), where work activities included:
  - Haul road assembly.
  - Lifting.
  - Earthworks.
  - Crushing.
  - Excavation.
  - Dust suppression.
  - Utility works.
- Stoneleigh Village worksite (ref.: SV, see plan 3 in Appendix A), where work activities included:
  - Overbridge realignment.
- Stoneleigh Park worksite (ref.: SP, see plan 3 in Appendix A), where work activities included:
  - Dust suppression.
  - Earthworks.
  - Pile cropping.
  - Blinding preparation.
- Cubbington Road worksite (ref.: C, see plan 4 in Appendix A), where work activities included:
  - Water utility works.
  - Abutment works including concreting.
  - Scabbling.

- Concrete screeding of pile caps.
- Installation of beam jacking systems.
- Access stair installation.
- Earthworks including backfilling.
- Kerb installation.
- Offchurch Cutting worksite (ref.: OC, see plan 5 in Appendix A), where work activities included:
  - Earthworks.
  - Dust suppression.
  - Lime stabilisation.
  - Drainage installation.
  - Soil stabilisation.
  - Excavation.
  - Backfilling.
  - Water utilities testing.
  - Waterproofing.
  - Vegetation clearance.
  - Duct installation.
  - Haul road maintenance.
  - Deliveries.
  - Landscaping.

1.1.4 The applicable standards, guidance, and monitoring methodology is outlined in the construction noise and vibration monitoring methodology report which can be found at the following location <https://www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2>. Noise and vibration monitoring reports for previous months can also be found at this location.

## 1.2 Measurement Locations

1.2.1 Eighteen (18) noise and six (6) vibration monitoring installations were installed in June in the WDC area. Table 2 summarises the location of the noise and vibration monitoring installations within the WDC area in June 2025.



1.2.2 Maps showing the position of the noise and vibration monitoring installations are presented in Appendix B.

Table 2: Monitoring Locations

Worksite Reference	Measurement Reference	Address
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green
	BGT-V3	Alms House, Cromwell Lane, Burton Green
	BGT-N8	301 Cromwell Lane, Burton Green
	BGT-V11	301 Cromwell Lane, Burton Green
BSP	BSP-N1	33 Broadwell Woods, Red Lane, Burton Green, Kenilworth
BC	BC-N1	Thistle Estate, Red Lane, Burton Green
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth
	A429-N3	16 Kenilworth Road, Kenilworth
A46C	A46C-N1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth
	A46C-V1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth
	A46C-N2	A46 Barns, Dalehouse Lane, Kenilworth
SV	SV-N2	5 Birmingham Rd, Stoneleigh, Coventry
	SV-N4	Crewe Lane, Stoneleigh, Coventry
SP	SP-N1	Stoneleigh, Kenilworth
	SP-N2	Stoneleigh Park, Kenilworth
	SP-V1	Stoneleigh, Kenilworth
C	C-N1	Wychwood, Cubbington Road, Leamington Spa
	C-V1	Wychwood, Cubbington Road, Leamington Spa
OC	OC-N1	Welsh Road Farm, Welsh Road, Offchurch, Leamington Spa
	OC-N2	Valley Fields, Offchurch, Leamington Spa
	OC-N3	Brickyard Cottage, Welsh Road, Offchurch
	FOS-N1	Long Itchington Road, Offchurch
	FOS-V1	Long Itchington Road, Offchurch

## 2 Summary of Results

### 2.1 Summary of Measured Noise and Vibration Levels

- 2.1.1 Table 3 presents a summary of the measured noise levels at each monitoring location over the reporting period. The  $L_{Aeq,T}$  is presented for each of the relevant time periods averaged over the calendar month, along with the highest single period  $L_{Aeq,T}$  that was found to occur within the month.

Table 3: Summary of Measured dB L<sub>Aeq</sub> Data over the Monitoring Period

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average L <sub>Aeq,T</sub> (Highest Day L <sub>Aeq,T</sub> )					Saturday Average L <sub>Aeq,T</sub> (Highest Day L <sub>Aeq,T</sub> )					Sunday / Public Holiday Average L <sub>Aeq,T</sub> (Highest Day L <sub>Aeq,T</sub> )	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green	Free-field	49.0 (54.8)	52.4 (62.1)	47.4 (49.9)	45.5 (52.6)	42.7 (59.5)	47.7 (51.9)	49.5 (49.9)	44.6 (45.5)	46.1 (51.6)	42.0 (51.7)	46.2 (50.8)	43.7 (60.8)
BGT	BGT-N8	301 Cromwell Lane, Burton Green	Free-field	47.0 (63.9)	65.2 (76.5)	45.4 (49.2)	42.4 (47.1)	40.2 (58.9)	43.1 (44.0)	54.7 (62.5)	43.2 (43.8)	43.4 (45.6)	39.2 (45.9)	44.1 (53.7)	39.4 (45.3)
BSP	BSP-N1	33 Broadwell Woods Caravan Park, Red Lane, Burton Green	Free-field	49.4 (63.2)	59.4 (76.0)	48.5 (57.6)	42.9 (52.0)	41.9 (53.5)	42.8 (43.8)	47.3 (52.7)	43.9 (46.0)	45.4 (53.4)	41.7 (53.2)	44.2 (51.8)	42.3 (53.6)
BC	BC-N1	Thistle Estate, Red Lane, Burton Green	Free-field	43.6 (46.9)	48.3 (62.8)	46.3 (57.4)	41.6 (52.4)	39.3 (53.3)	42.8 (46.3)	44.3 (50.5)	41.4 (43.0)	43.2 (55.2)	43.1 (56.3)	42.4 (50.0)	41.5 (57.0)
A429	A429-N1	Millburn Grange, Coventry Road, Kenilworth	Free-field	50.2 (53.9)	55.2 (62.3)	54.0 (64.7)	51.8 (60.4)	49.2 (57.4)	48.3 (49.1)	51.0 (51.8)	48.2 (48.6)	49.3 (51.9)	40.7 (54.0)	50.4 (67.3)	42.8 (51.0)
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth	Free-field	48.2 (50.4)	52.3 (55.3)	51.3 (58.0)	47.5 (52.1)	45.8 (53.8)	47.1 (47.6)	50.5 (55.2)	47.1 (48.6)	47.9 (57.8)	39.8 (45.8)	49.4 (58.0)	41.0 (48.2)

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$ )					Saturday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$ )					Sunday / Public Holiday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$ )	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
	A429-N3	16 Kenilworth Road, Kenilworth	Free-field	53.0 (61.6)	59.0 (65.7)	53.7 (63.4)	47.5 (57.6)	47.5 (61.2)	49.8 (51.6)	55.9 (58.6)	52.8 (55.8)	50.7 (59.4)	47.6 (57.1)	55.1 (61.4)	46.6 (59.5)
A46C	A46C-N1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	Free-field	57.3 (60.6)	59.1 (71.4)	56.2 (60.5)	54.5 (59.2)	53.0 (60.3)	55.3 (56.2)	57.7 (58.4)	57.1 (57.7)	55.6 (58.2)	48.9 (52.6)	53.5 (56.5)	51.3 (57.1)
	A46C-N2	A46 Barns, Dalehouse Lane, Kenilworth	Free-field	53.4 (57.4)	60.2 (66.1)	51.6 (56.3)	49.1 (55.1)	48.6 (55.9)	52.0 (55.3)	58.0 (62.2)	55.0 (58.7)	50.9 (58.9)	43.8 (49.0)	48.2 (51.6)	45.5 (52.8)
SV	SV-N2	5 Birmingham Rd, Stoneleigh, Coventry	Free-field	54.0 (57.7)	53.6 (59.8)	52.7 (60.5)	51.4 (64.6)	47.8 (63.1)	51.2 (52.6)	52.0 (53.8)	52.1 (52.4)	52.3 (61.0)	46.2 (56.5)	51.3 (61.1)	48.0 (62.1)
	SV-N4	Crewe Lane, Stoneleigh, Coventry	Free-field	59.8 (61.5)	59.1 (62.7)	57.8 (65.9)	55.0 (62.3)	52.2 (62.6)	53.5 (55.1)	56.7 (57.7)	56.5 (57.1)	55.4 (59.0)	50.5 (62.5)	56.2 (60.3)	52.6 (62.7)
SP	SP-N1	Stoneleigh, Kenilworth	Free-field	52.0 (54.2)	55.7 (59.2)	50.0 (52.1)	47.7 (54.1)	44.9 (51.5)	48.0 (48.6)	52.7 (54.6)	50.9 (52.3)	49.3 (55.2)	43.8 (50.6)	49.0 (59.3)	44.9 (50.5)
	SP-N2	Stoneleigh Park, Kenilworth	Free-field	55.2 (61.0)	60.1 (64.3)	50.4 (58.5)	47.6 (56.4)	44.6 (59.1)	48.2 (52.0)	52.4 (57.0)	51.8 (55.1)	50.5 (57.6)	40.4 (45.7)	52.0 (63.5)	43.8 (52.2)

Worksite Reference	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$ )					Saturday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$ )					Sunday / Public Holiday Average $L_{Aeq,T}$ (Highest Day $L_{Aeq,T}$ )	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
C	C-N1	Wychwood, Cubbington Road, Lillington	Free-field	51.8 (54.1)	53.2 (64.6)	52.2 (70.3)	50.1 (58.1)	46.3 (57.8)	49.3 (52.1)	51.3 (53.5)	51.3 (53.0)	50.5 (54.5)	45.2 (53.3)	51.5 (60.2)	45.1 (54.5)
OC	OC-N1	Welsh Road Farm, Welsh Road, Offchurch	Free-field	62.3 (65.2)	61.1 (65.0)	60.3 (63.5)	57.8 (66.9)	52.2 (62.1)	58.1 (59.1)	60.7 (61.8)	60.3 (60.9)	58.6 (63.6)	49.1 (55.0)	59.5 (69.0)	51.9 (59.9)
	OC-N2	Valley Fields, Offchurch	Free-field	50.6 (57.1)	51.1 (53.2)	45.9 (50.6)	43.9 (49.4)	42.7 (51.1)	47.9 (49.1)	47.1 (48.6)	47.5 (49.8)	47.1 (53.2)	42.2 (47.2)	47.2 (61.1)	43.0 (50.1)
	OC-N3	Brickyard Cottage, Welsh Road, Offchurch	Free-field	55.2 (58.5)	54.3 (61.9)	53.7 (68.5)	52.1 (67.1)	48.4 (63.5)	52.9 (57.9)	53.8 (55.4)	52.1 (52.8)	52.4 (59.9)	47.1 (56.2)	54.3 (65.2)	47.9 (60.3)
	FOS-N1	Long Itchington Road, Offchurch	Free-field	46.7 (53.7)	51.2 (62.3)	44.3 (48.7)	43.3 (48.6)	40.9 (51.2)	43.7 (44.9)	49.2 (50.6)	50.0 (52.0)	44.6 (50.6)	38.9 (43.3)	44.4 (50.1)	40.2 (45.1)

- 2.1.2 Table 4 presents a summary of the measured vibration levels at each monitoring location over the reporting period. The highest PPV measured during the monitoring along any axis is presented in the table.

Table 4: Summary of Measured PPV Data over the Monitoring Period

Worksite Reference	Measurement Reference	Monitor Address	Highest PPV measured in any axis mm/s
BGT	BGT-V3	Alms House, Cromwell Lane, Burton Green	1.28 (Y-axis)
	BGT-V11	301 Cromwell Lane, Burton Green	13.34* (Y-axis)
A46C	A46C-V1	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	3.00 (X-axis)
SP	SP-V1	East Lodge, Stoneleigh	1.71 (X-axis)
OC	FOS-V1	Long Itchington Road, Offchurch	2.14 (Y-axis)
C	C-V1	Wychwood, Cubbington Road, Lillington	3.81 (X-axis)

\* High levels of vibration due to works in close proximity to the monitor. The receptor is located further from the works therefore vibration levels are expected to be lower.

- 2.1.3 Appendix C presents graphs of the noise and vibration monitoring data over the month for each of the measurement locations. Noise data presented consists of the hourly  $L_{Aeq}$  values and, where relevant, the  $L_{Aeq,T}$  values (where the time period T has been taken to be the averaging period as specified in Table 1 of HS2 Information Paper E23). Vibration data presented consist of hourly PPV values. The full data set for the monitoring equipment can be found at the following location:

<https://data.gov.uk/dataset/24542ae7-dd44-444f-b259-871c4cc43b5e/environmental-monitoring-data>.

## 2.2 Exceedances of the LOAEL and SOAEL

- 2.2.1 The lowest observed adverse effect level (LOAEL) is defined in the Planning Practice Guidance – Noise (PPG) as the level above which "noise starts to cause small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life".
- 2.2.2 The significant observed adverse effect level (SOAEL) is defined in the 'Planning Practice Guidance – Noise' as the level above which "noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed

most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area."

- 2.2.3 HS2 Phase One Information Paper E23: Control of Construction Noise and Vibration sets out the LOAELs and SOAELs for construction noise.
- 2.2.4 Where reported construction noise levels exceed the LOAEL and SOAEL, relevant periods will be identified. Summary statistics to evaluate ongoing qualification for noise insulation and temporary rehousing are also presented where relevant.
- 2.2.5 Table 5 presents a summary of recorded exceedances of the LOAEL and SOAEL at each measurement location over the reporting period, including the number of exceedances during each time period.

Table 5: Summary of Exceedances of LOAEL and SOAEL

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
BGT	BGT-N5	Alms House, Cromwell Lane, Burton Green, Warwick	All days	All periods	No exceedances	No exceedances
	BGT-N8	301 Cromwell Lane, Burton Green, Warwick	Weekday	0800-1800	14	1
BSP	BSP-N1	33 Broadwell Woods Caravan Park, Red Lane, Burton Green	Weekday	0800-1800	3	1
BC	BC-N1*	Thistle Estate, Red Lane, Burton Green	All days	All periods	No exceedances	No exceedances
A429	A429-N1*	Millburn Grange, Coventry Road, Kenilworth	All days	All periods	No exceedances	No exceedances
	A429-N2	Brookview, Milburn Grange, Coventry Road, Kenilworth	All days	All periods	No exceedances	No exceedances

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
	A429-N3	16 Kenilworth Road, Kenilworth	All days	All periods	No exceedances	No exceedances
A46C	A46C-N1*	Kingswood Farmhouse, Dalehouse Lane, Kenilworth	Weekday	0800-1800	1	No exceedances
	A46C-N2	A46 Barns, Dalehouse Lane, Kenilworth	All days	All periods	No exceedances	No exceedances
SV	SV-N2	5 Birmingham Rd, Stoneleigh	All days	All periods	No exceedances	No exceedances
	SV-N4	Crewe Lane, Stoneleigh, Coventry	All days	All periods	No exceedances	No exceedances
SP	SP-N1	Stoneleigh Park, Kenilworth	All days	All periods	No exceedances	No exceedances
	SP-N2	Stoneleigh Park, Kenilworth	Weekday	0800-1800	1	No exceedances
C	C-N1	Wychwood, Cubbington Road, Lillington Spa	All days	All periods	No exceedances	No exceedances
OC	OC-N1	Welsh Road Farm, Welsh Road, Offchurch	All days	All periods	No exceedances	No exceedances
	OC-N2	Valley Fields, Hunningham Road, Offchurch	All days	All periods	No exceedances	No exceedances
	OC-N3*	Brickyard Cottage, Welsh Road, Offchurch,	All days	All periods	No exceedances	No exceedances
	FOS-N1	Long Itchington Road, Offchurch	All days	All periods	No exceedances	No exceedances

\* Note: A distance correction has been applied while calculating exceedances of the LOAEL and SOAEL.

2.2.6 There were exceedances of the LOAEL due to HS2 construction works at four (4) monitoring locations during weekday daytime periods.



- 2.2.7 There were exceedances of the SOAEL due to HS2 construction works at two (2) monitoring locations during weekday daytime periods.
- 2.2.8 For the purpose of assessing eligibility for noise insulation or temporary rehousing, multiple exceedances of the SOAEL in a 24-hour period would be counted as a single exceedance during that day. Over the reporting period, the overall number of SOAEL exceedances at each measurement location is shown in Table 6 and June be lower than the total sum of individual exceedances reported in Table 5 for each location.

Table 6: Summary of Total Exceedances of SOAEL

Worksite Reference	Measurement Reference	Monitor Address	Total of SOAEL exceedances in the month
BGT	BGT-N8	301 Cromwell Lane, Burton Green, Warwick	1
BSP	BSP-N1	33 Broadwell Woods Caravan Park, Red Lane, Burton Green	1

- 2.2.9 There were two (2) 24-hour periods where the SOAEL was exceeded due to HS2 construction works during June 2025

## 2.3 Exceedances of Trigger Level

- 2.3.1 Table 7 provides a summary of exceedances of the Section 61 trigger noise levels determined to be due to HS2 related construction noise measured during the reporting period, along with the findings of any investigation.

Table 7: Summary of Exceedances of Trigger Levels

Complaint Reference Number (if applicable)	Worksite Reference	Date and Time Period	Identified Source	Results of Investigation (including noise monitoring results)	Actions Taken
-	-	-	-	-	-

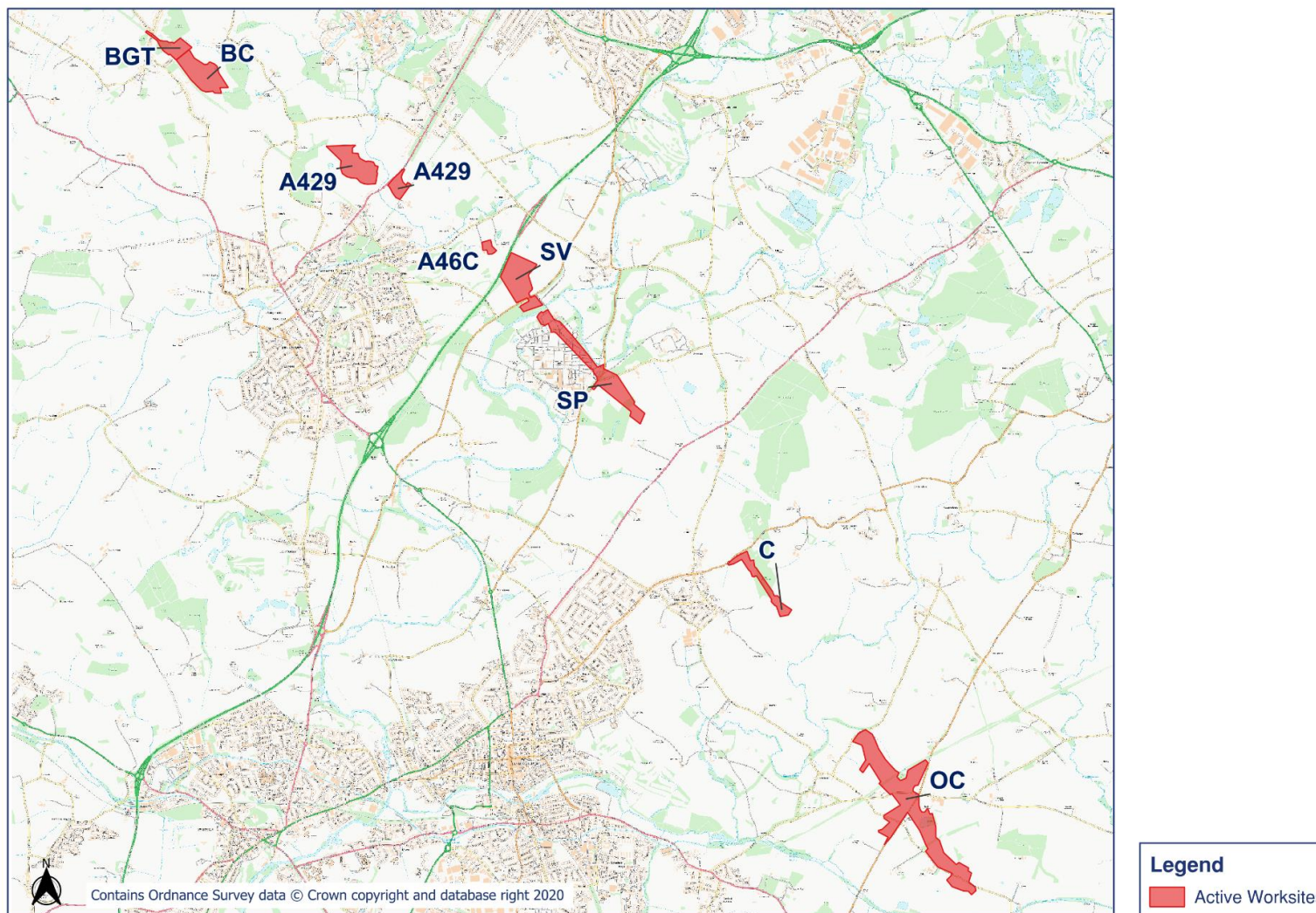
## 2.4 Complaints

2.4.1 Table 8 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

Table 8: Summary of Complaints

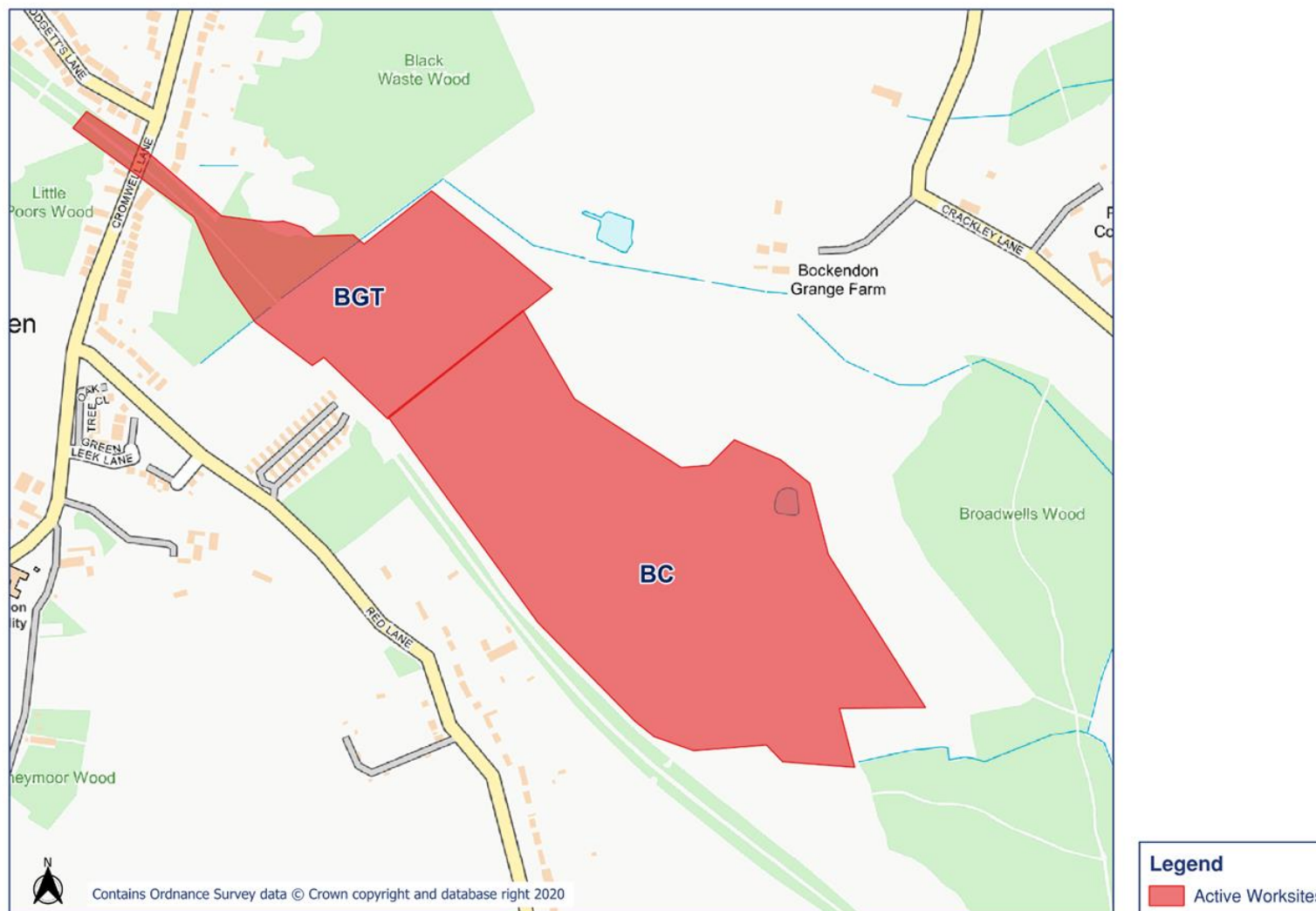
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-25-123474-E-C	A429KRO	Complaint due to vehicle and music noise during the night-time.	The vehicle and music noise heard was associated with a HS2 worksite.	Site team have received a briefing to remind them to respect the local area and residents when working unsociable hours. Information was provided to the stakeholder confirming the results of investigation and actions taken.

# Appendix A Site Locations

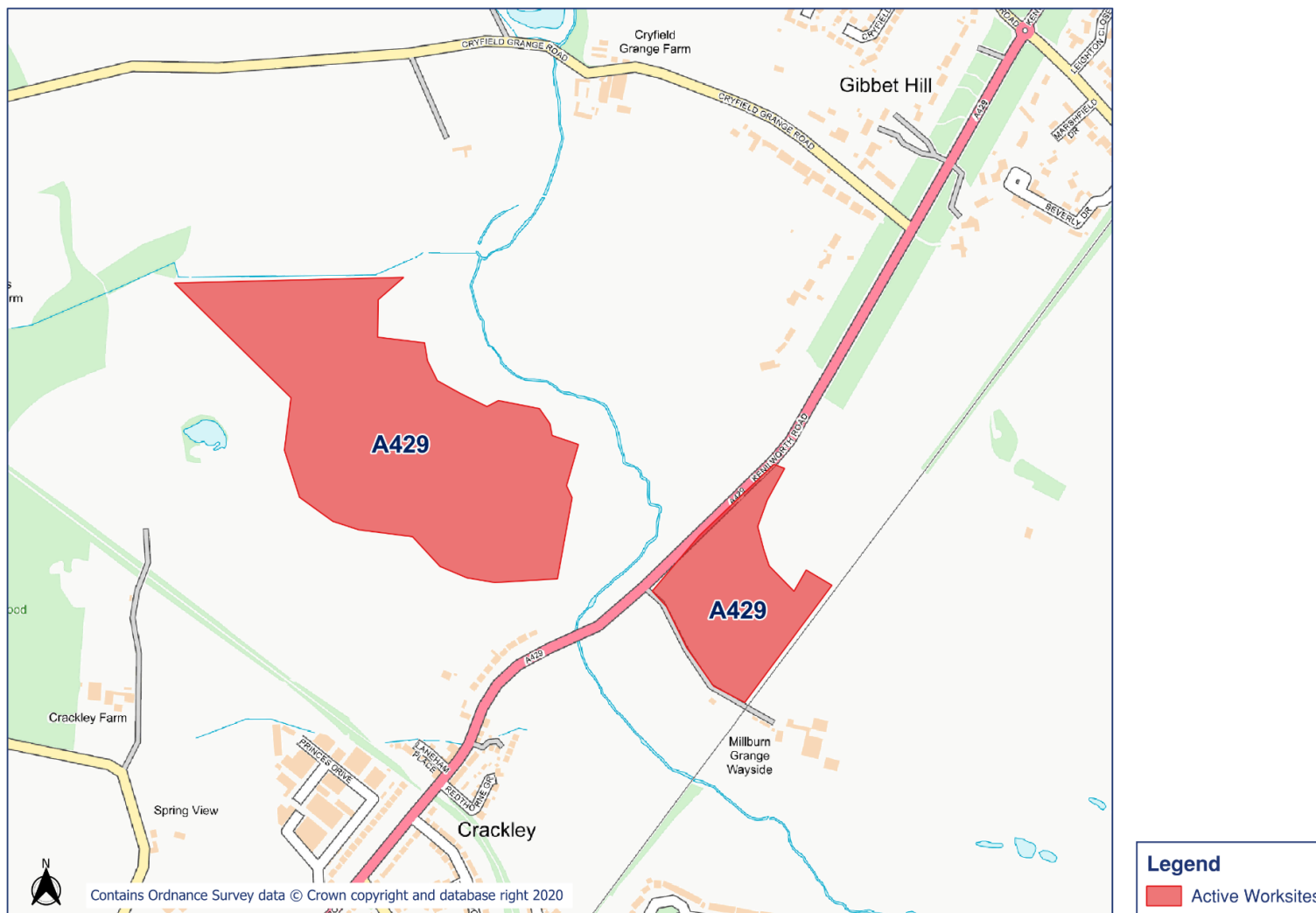


# HS2

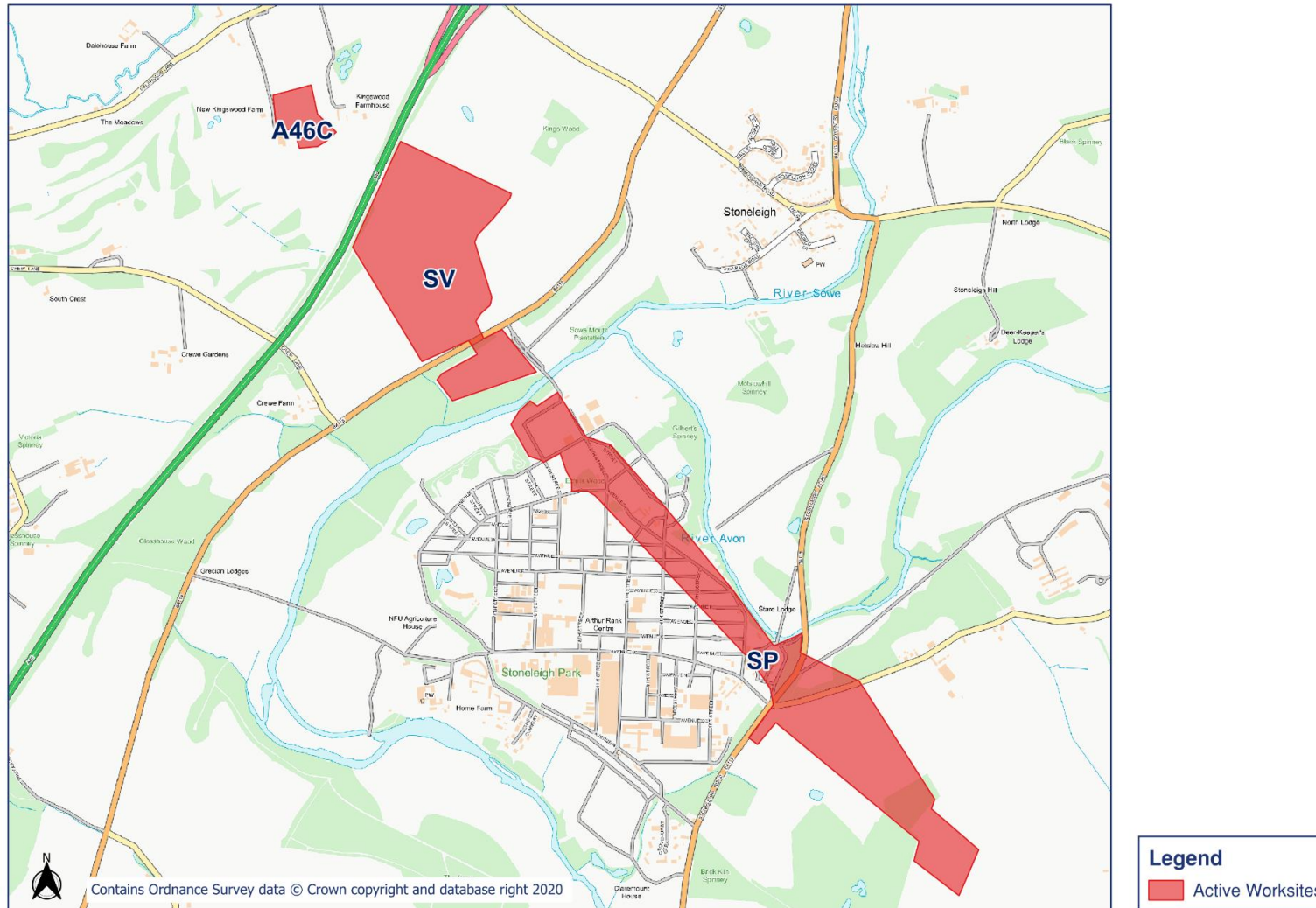
## Worksite Identification Plan - 1



OFFICIAL





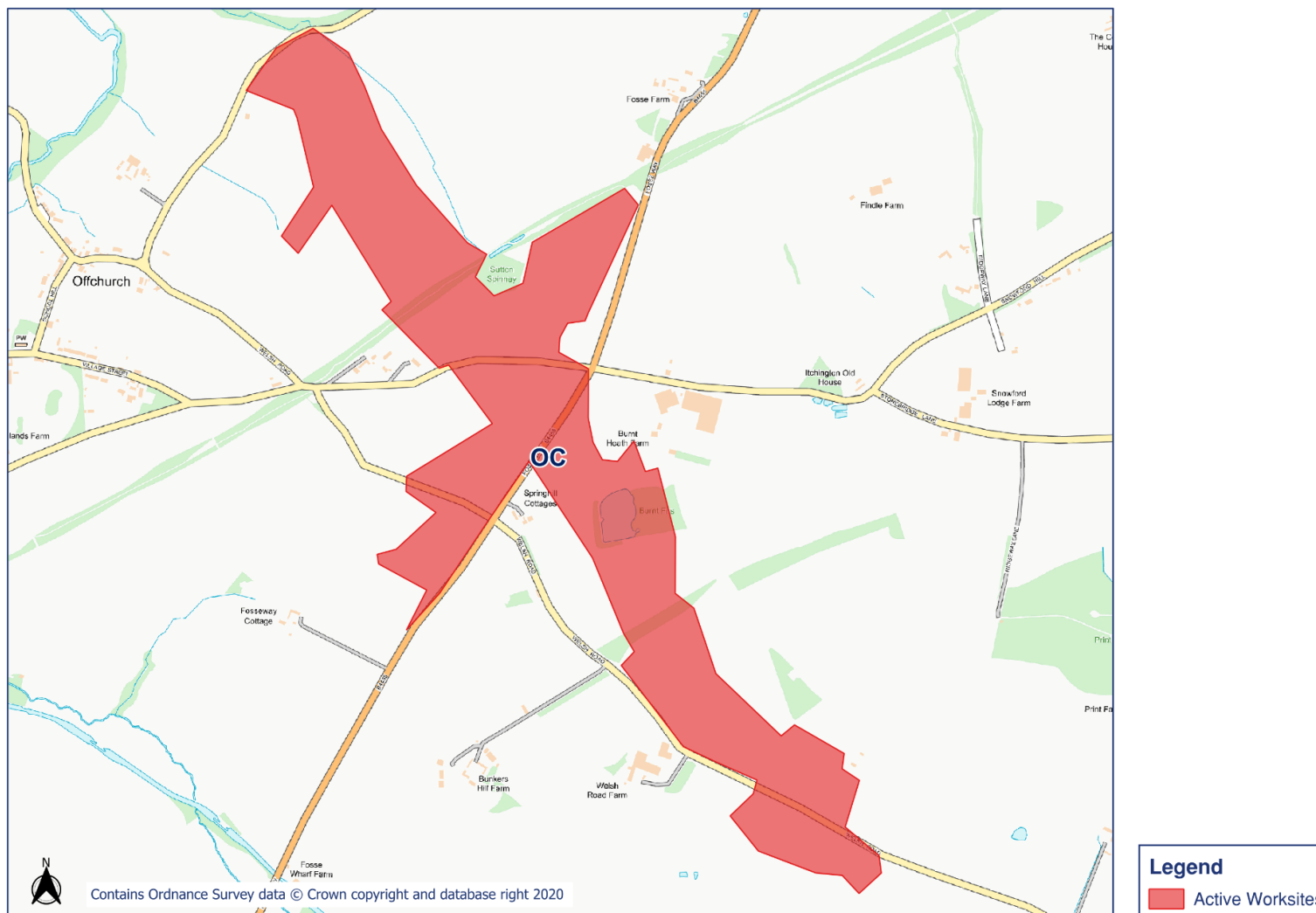






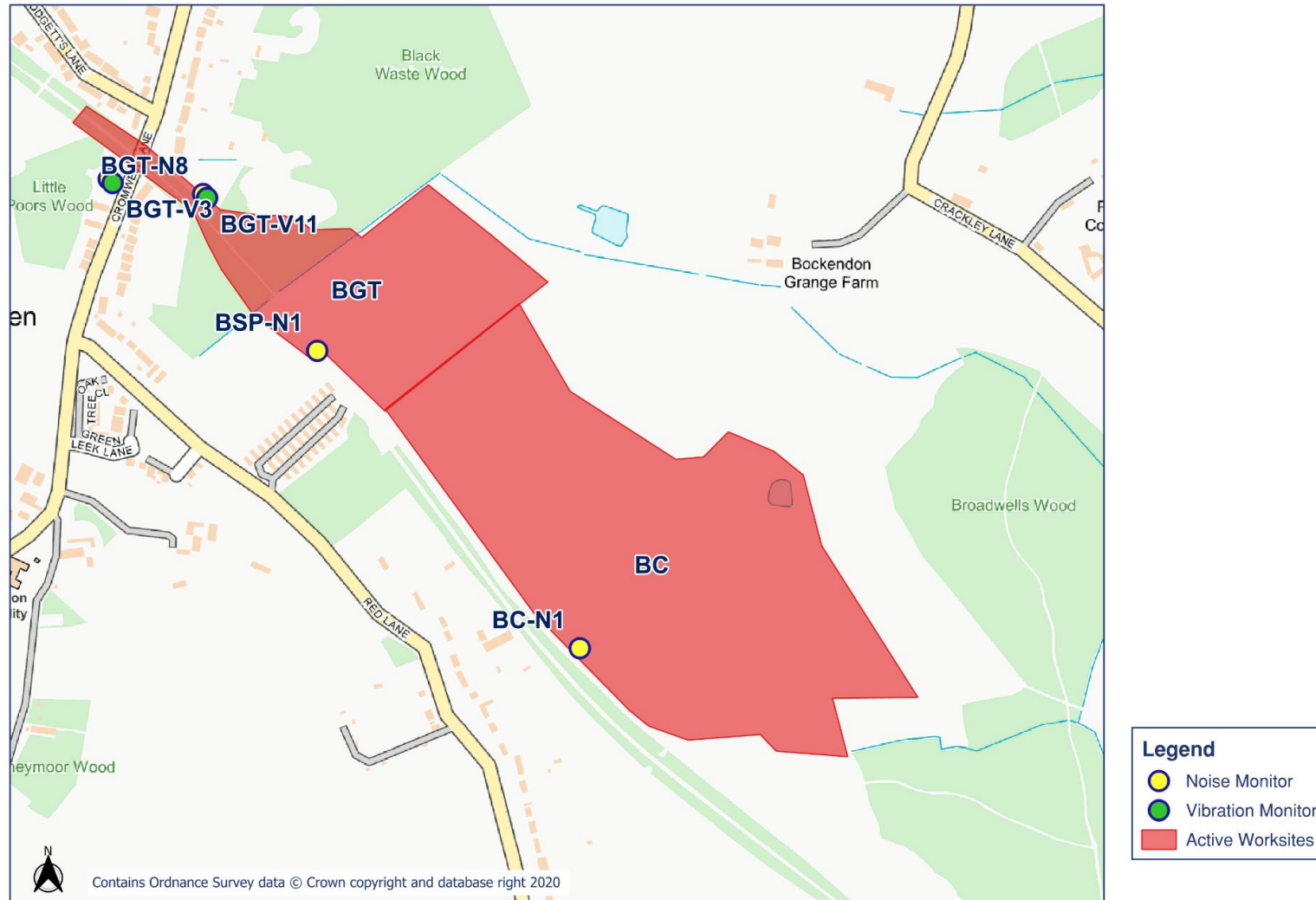
# HS2

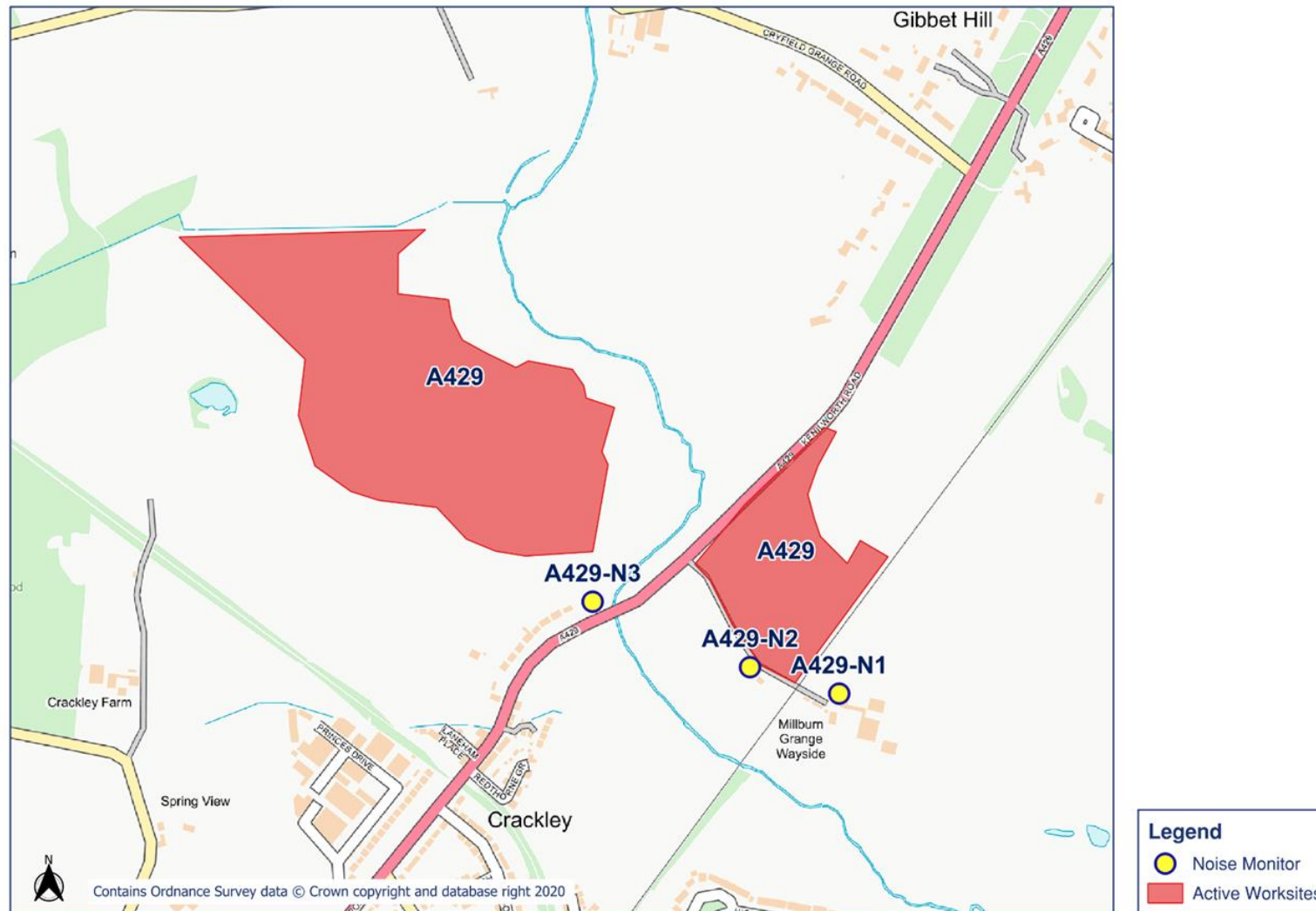
## Worksite Identification Plan - 5



OFFICIAL

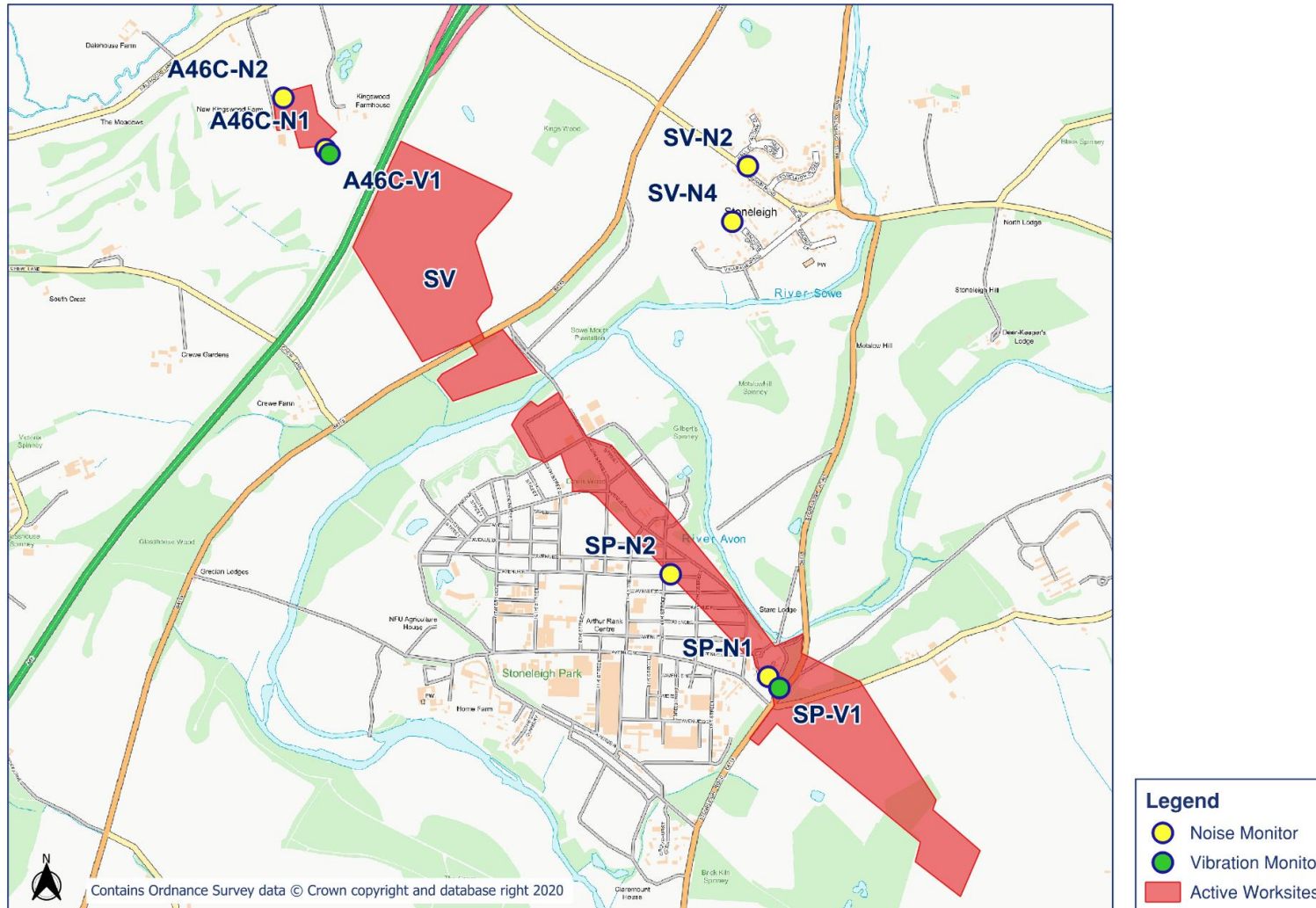
# Appendix B Monitoring Locations





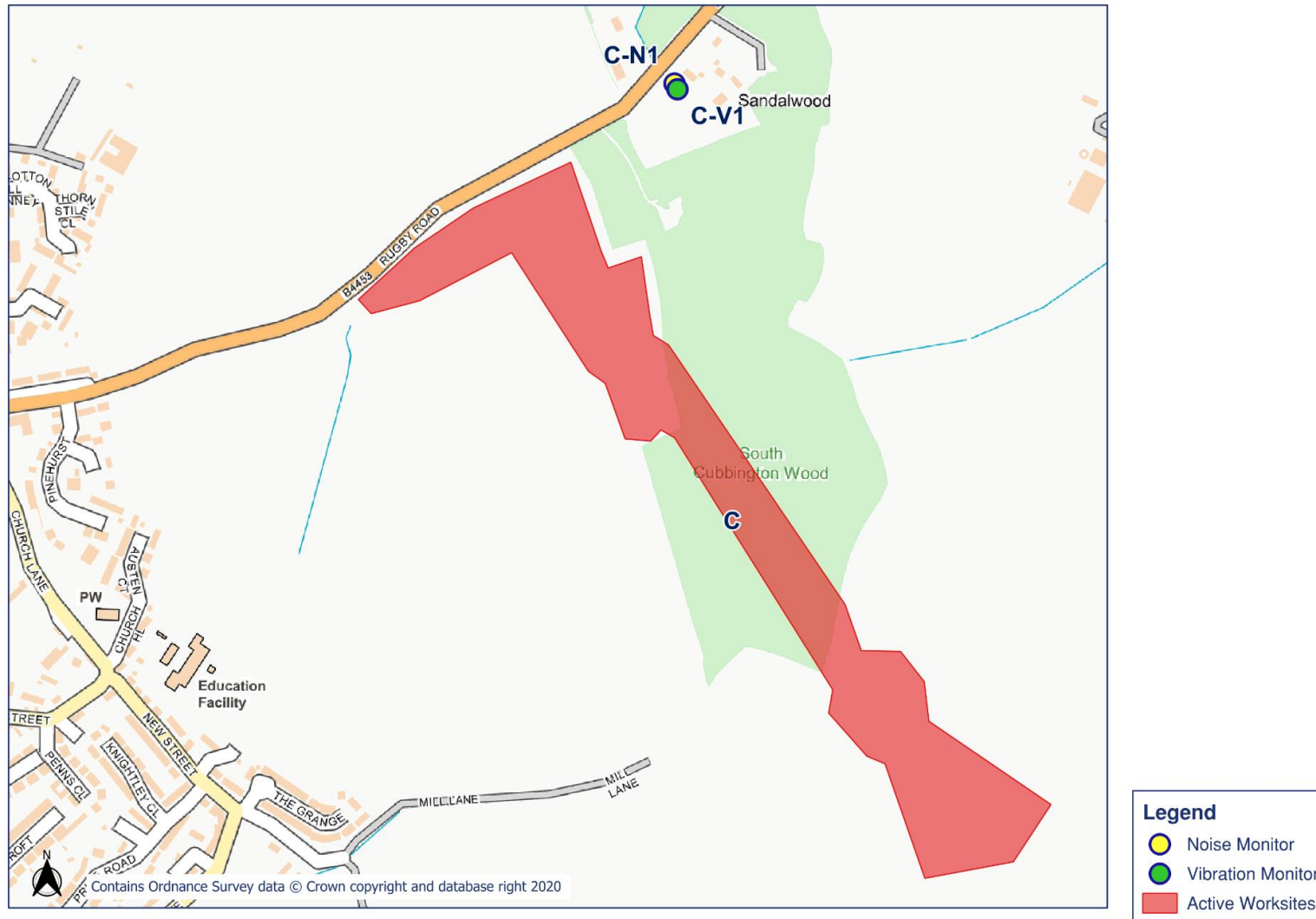
# HS2

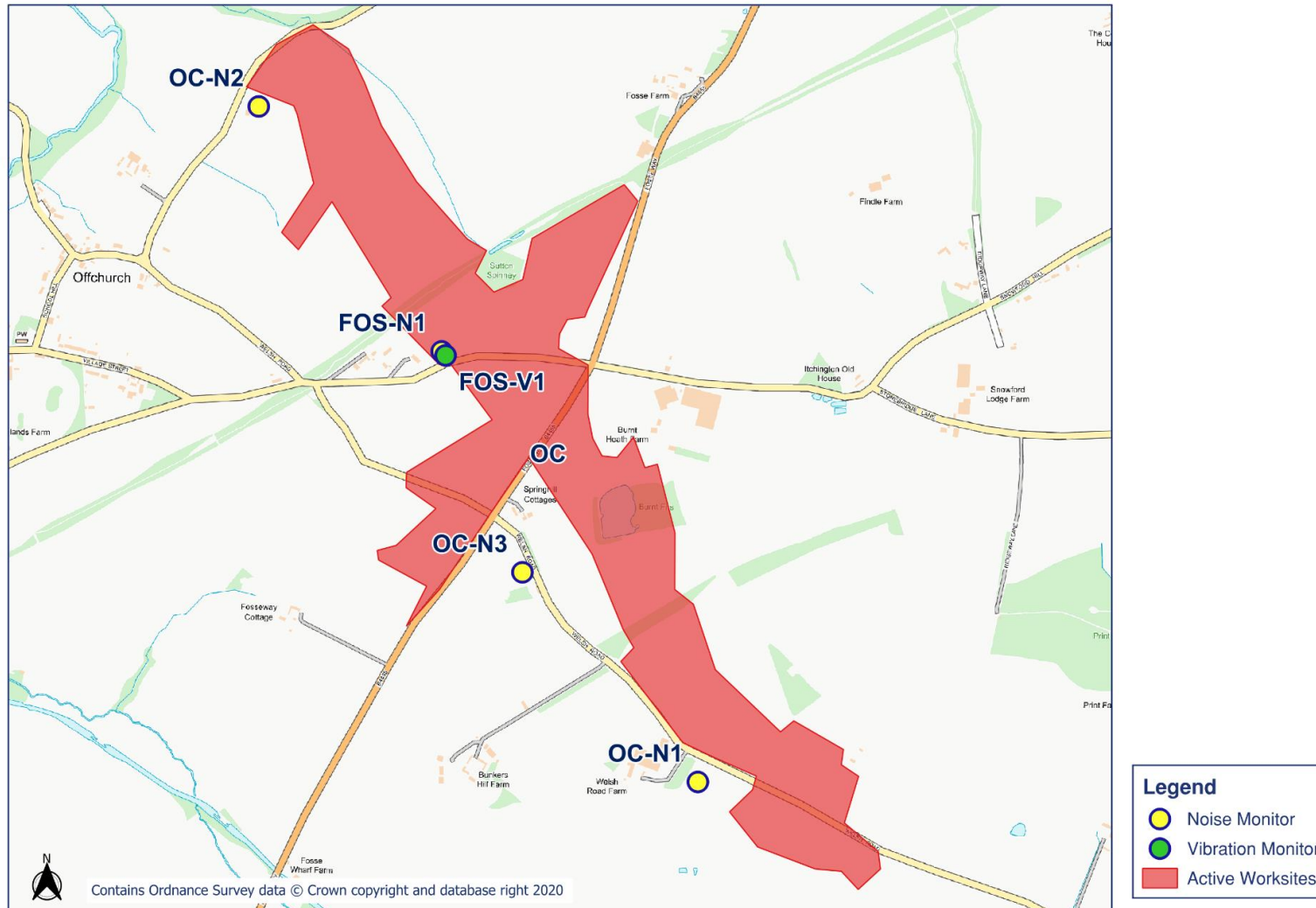
## Noise and Vibration Monitoring Plan - 3



OFFICIAL





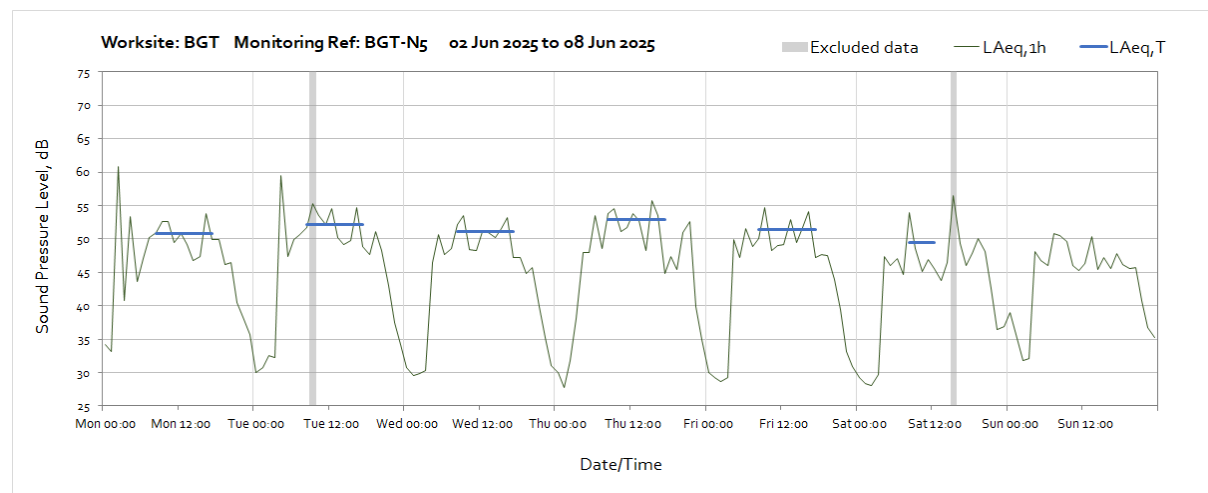
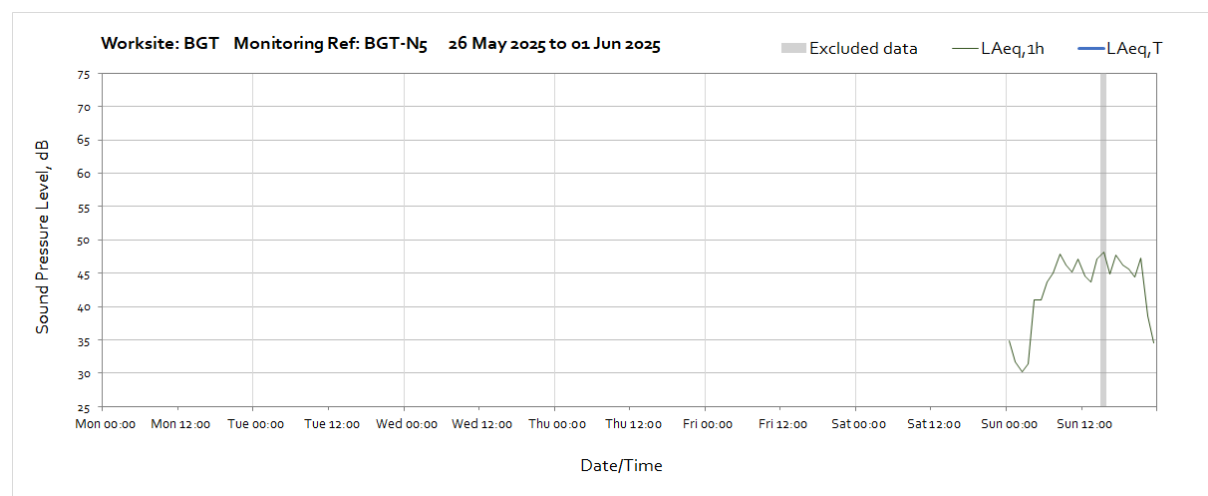


# Appendix C Data

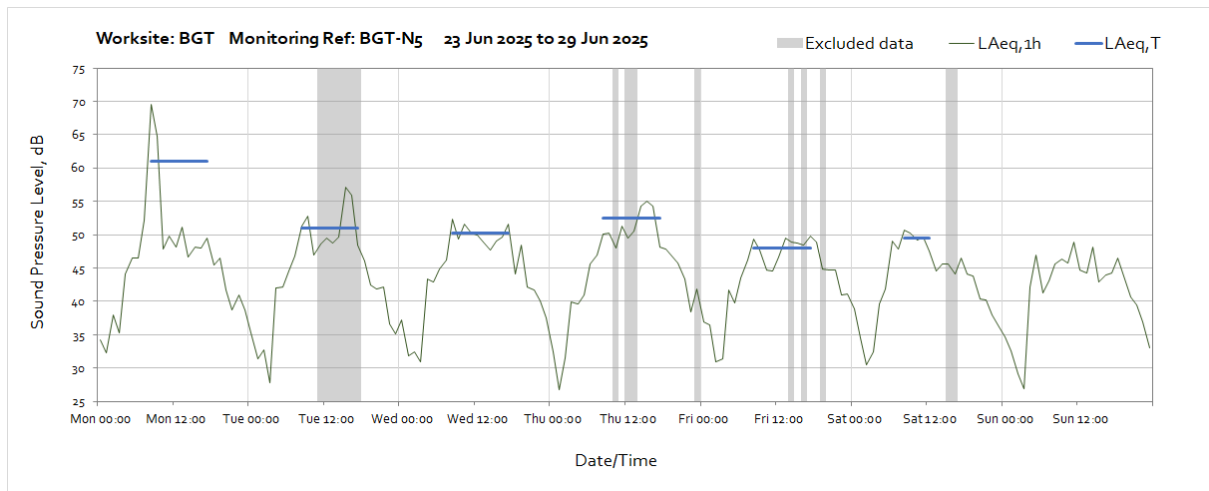
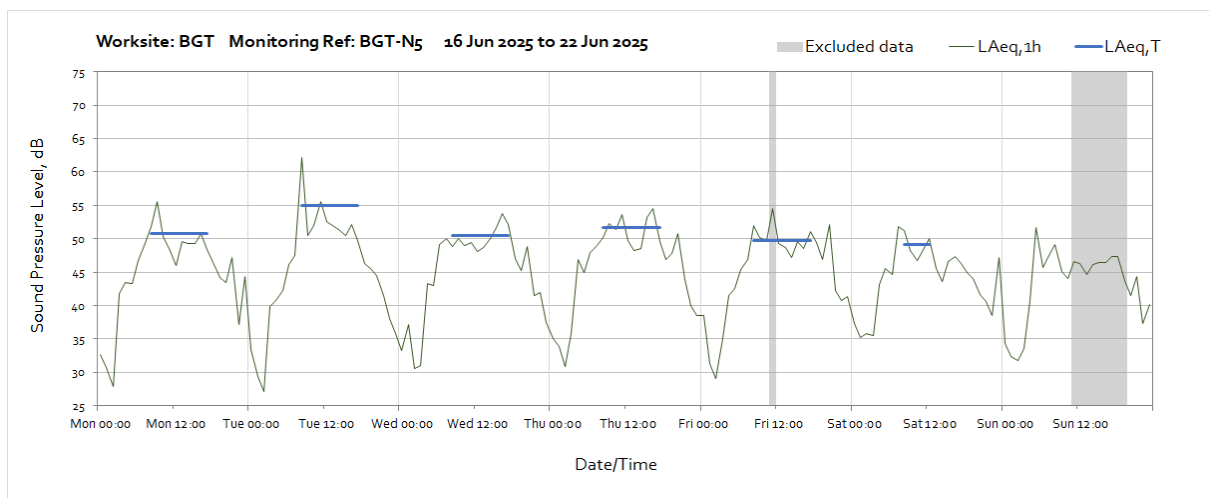
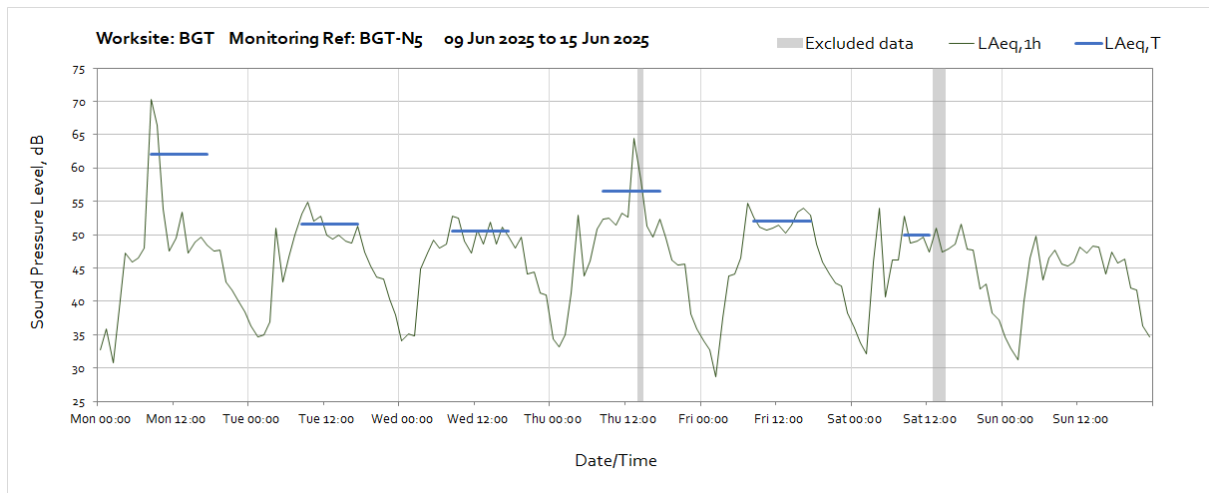
## Noise

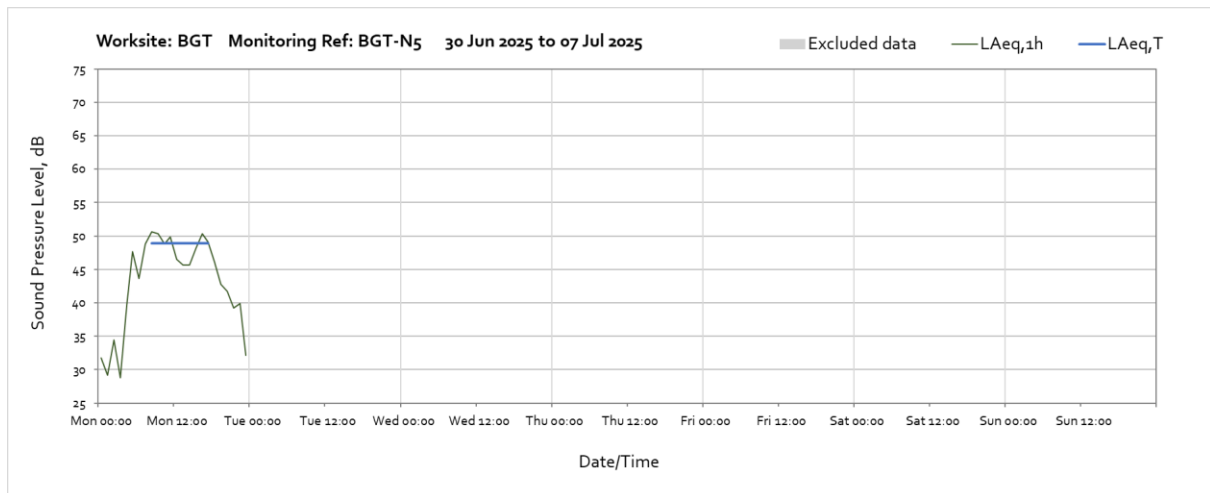
The following graphs show the hourly measured ambient noise level  $L_{Aeq,1h}$  and, where relevant, the averaged noise level  $L_{Aeq,T}$  values, where the time period  $T$  is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured for part of the period, which are not representative of HS2 construction works, have been greyed out and excluded from the calculation of the  $L_{Aeq,T}$  values in in Table 3 of the main report.

### Worksite: BGT – Monitoring Ref: BGT-N5

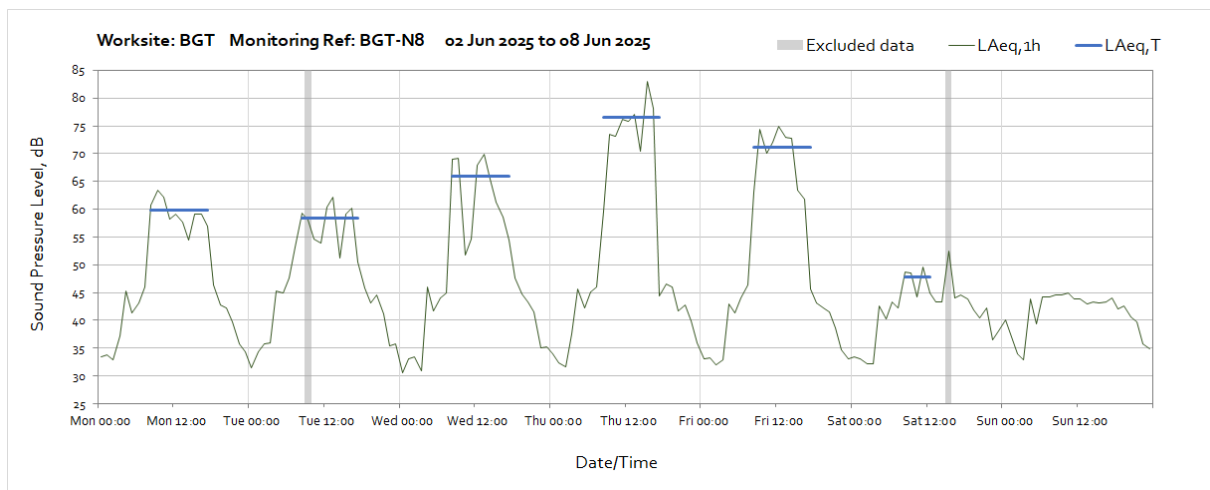
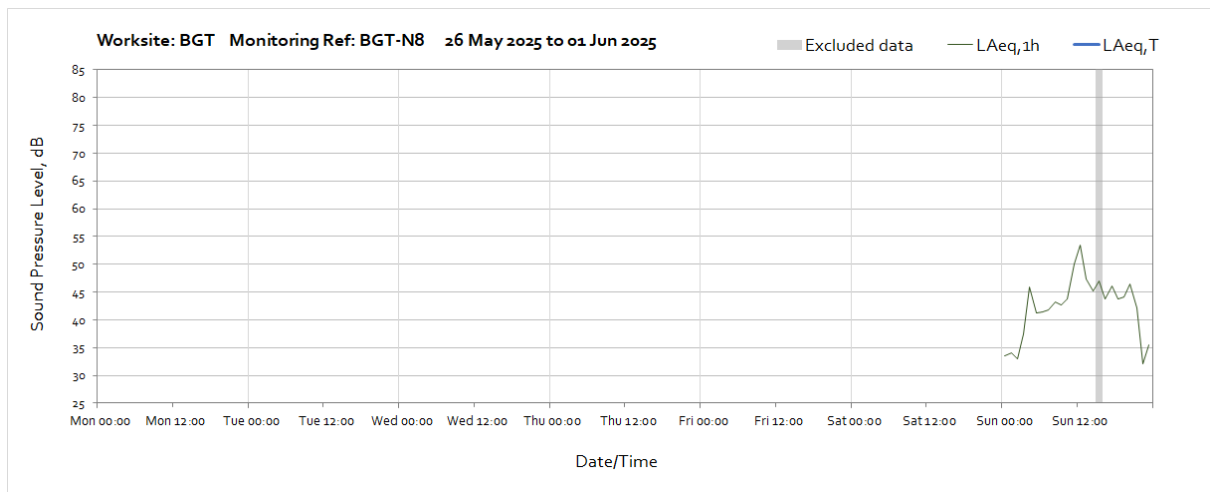


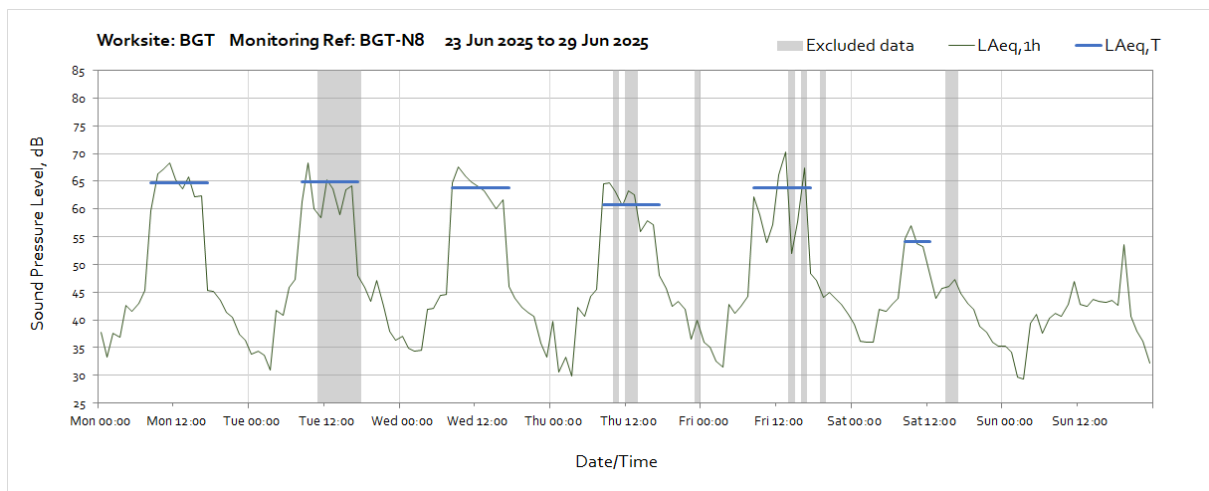
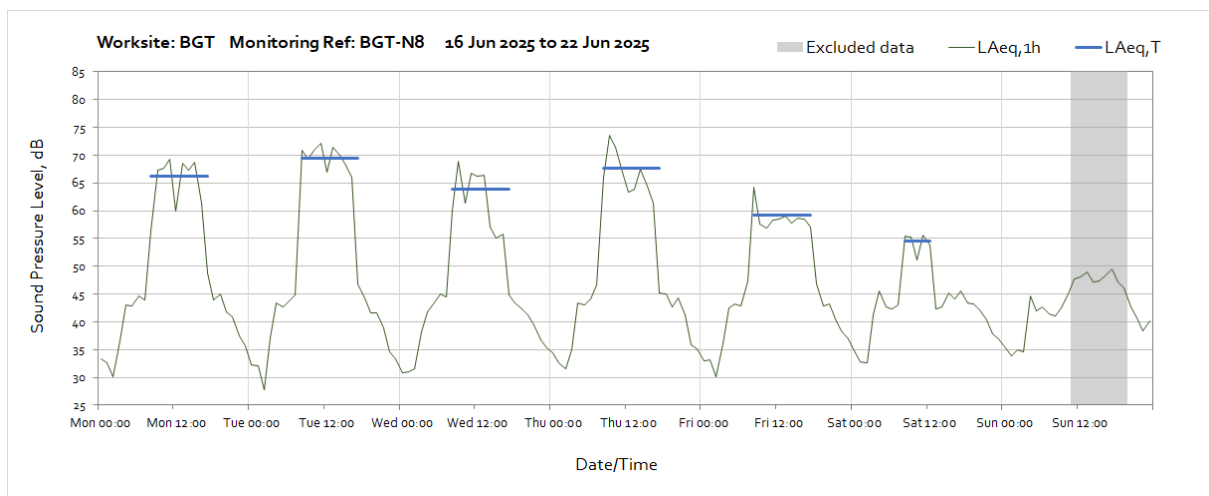
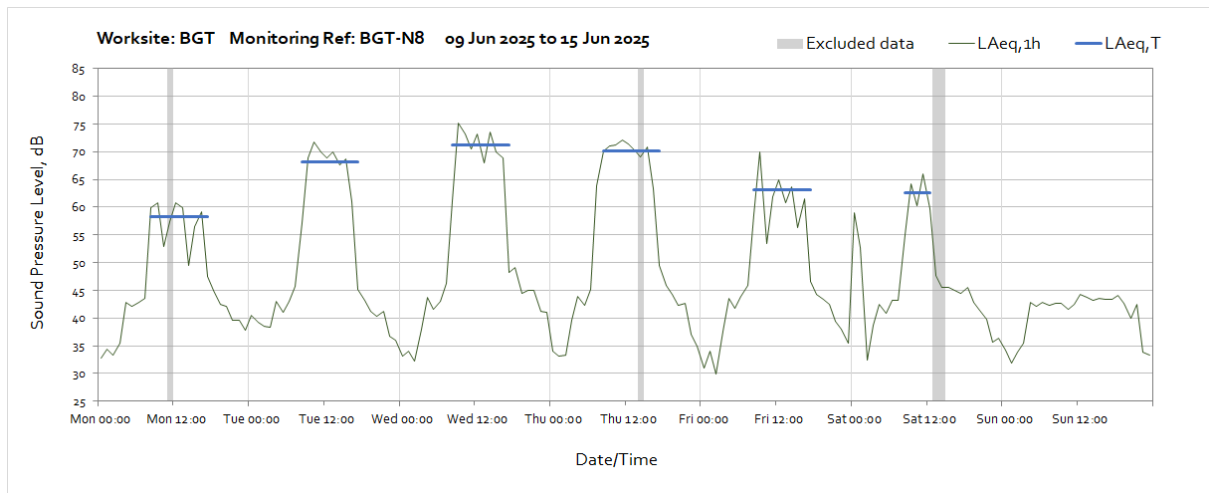


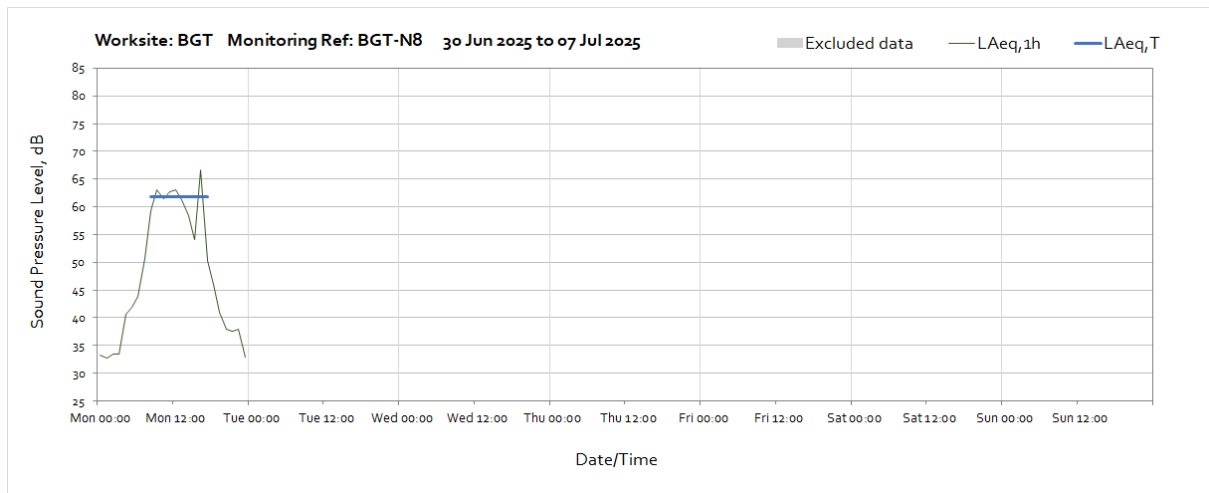




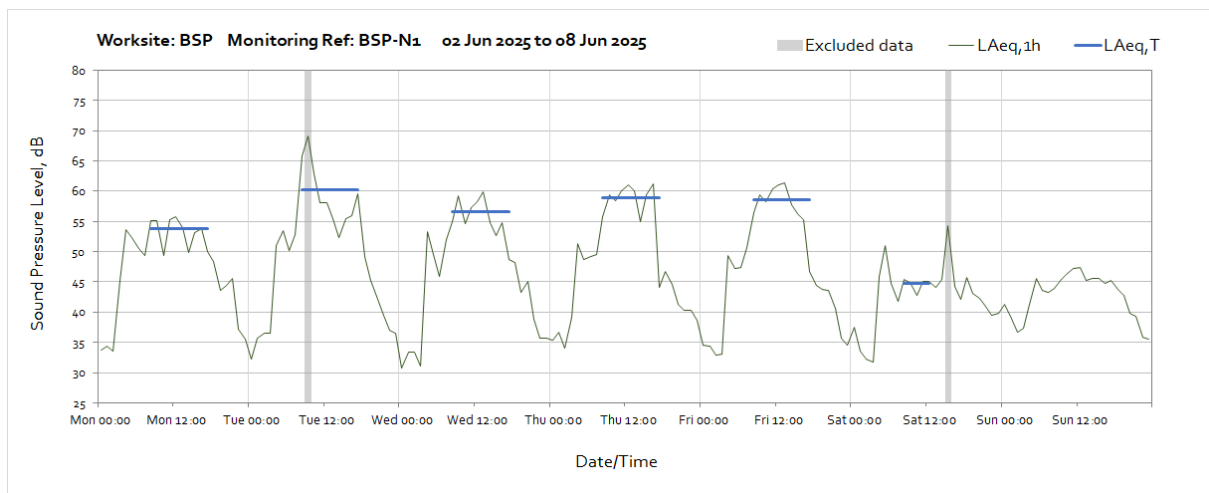
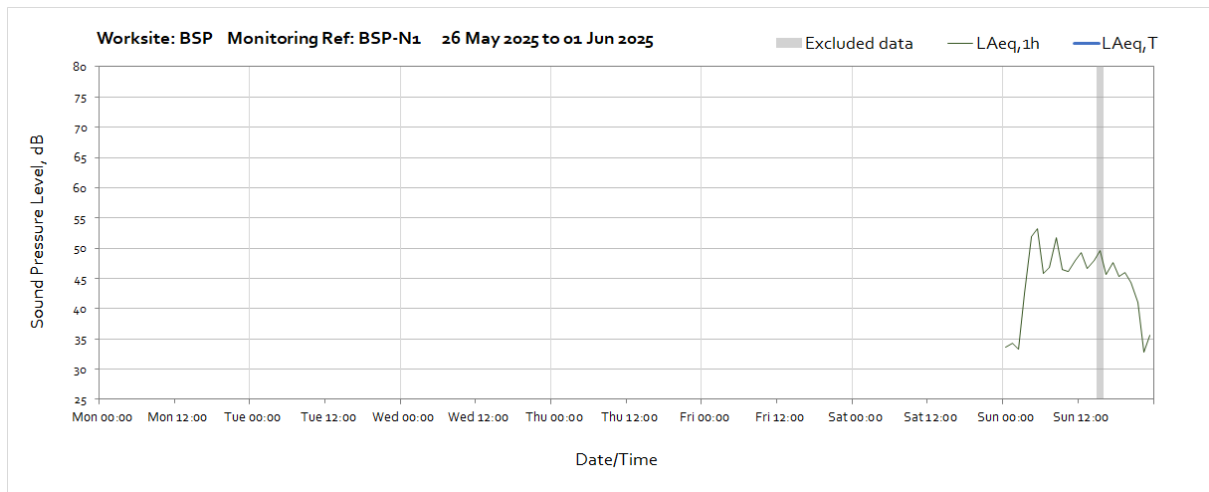
## Worksite: BGT – Monitoring Ref: BGT-N8

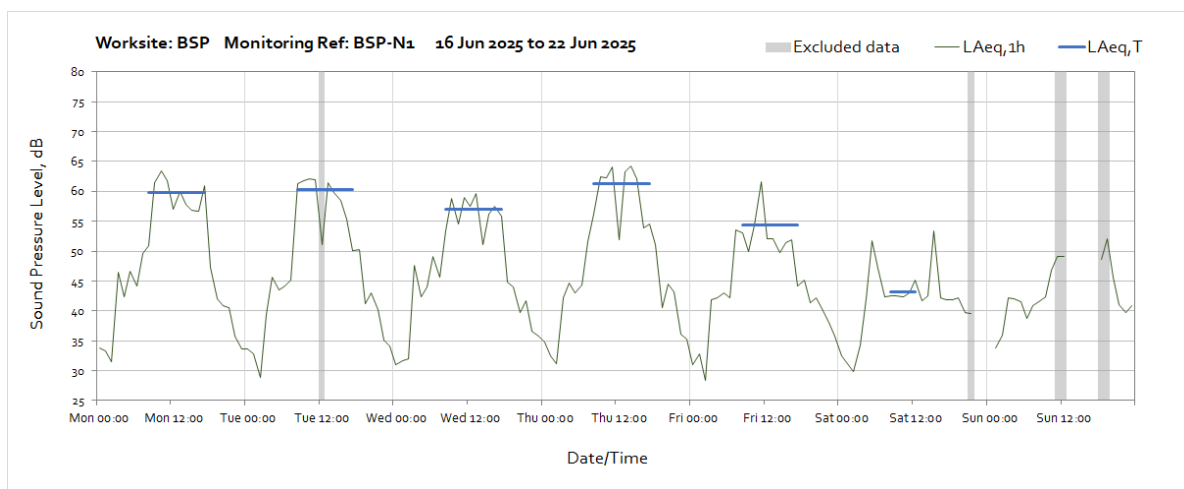
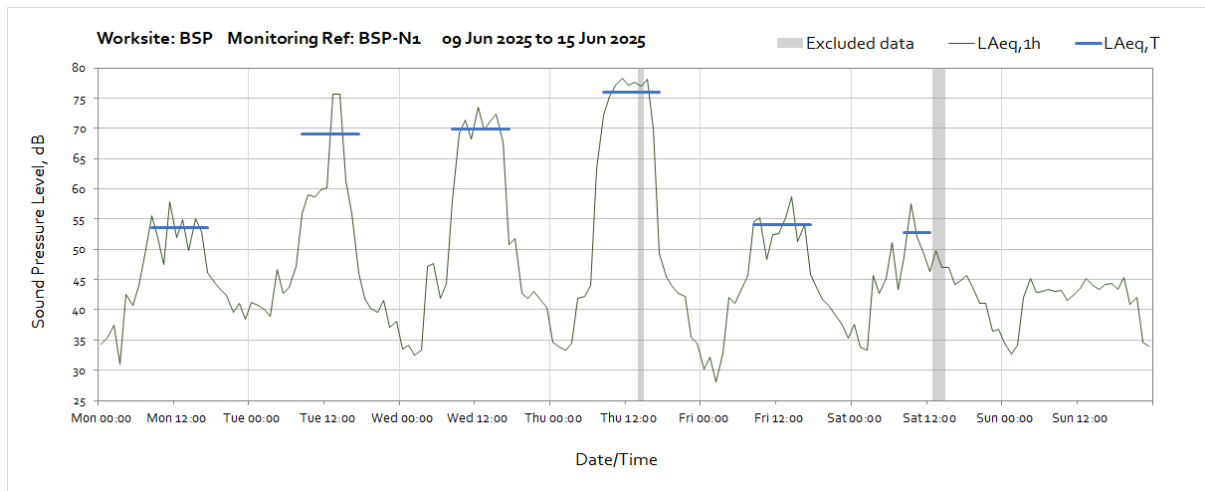




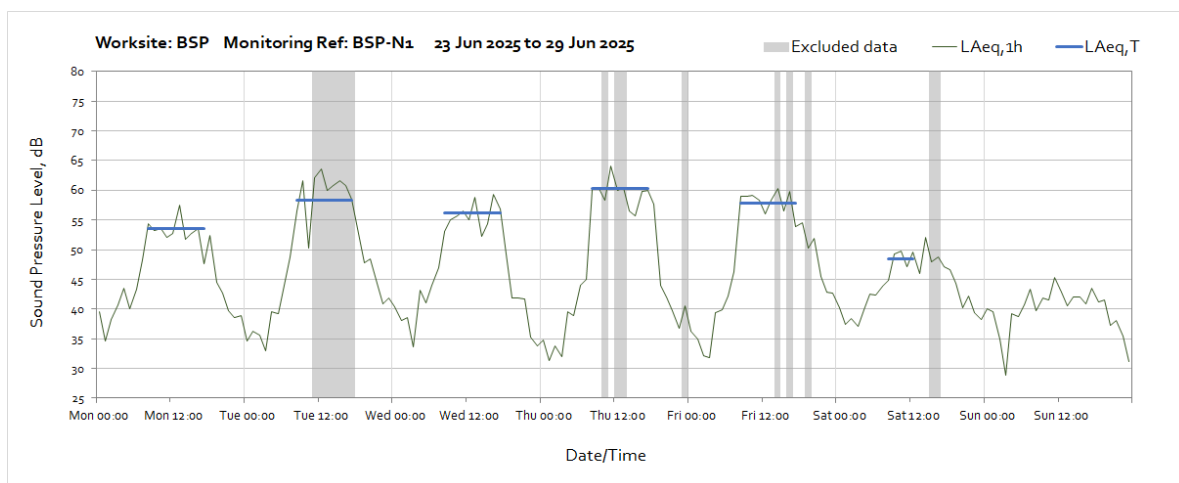


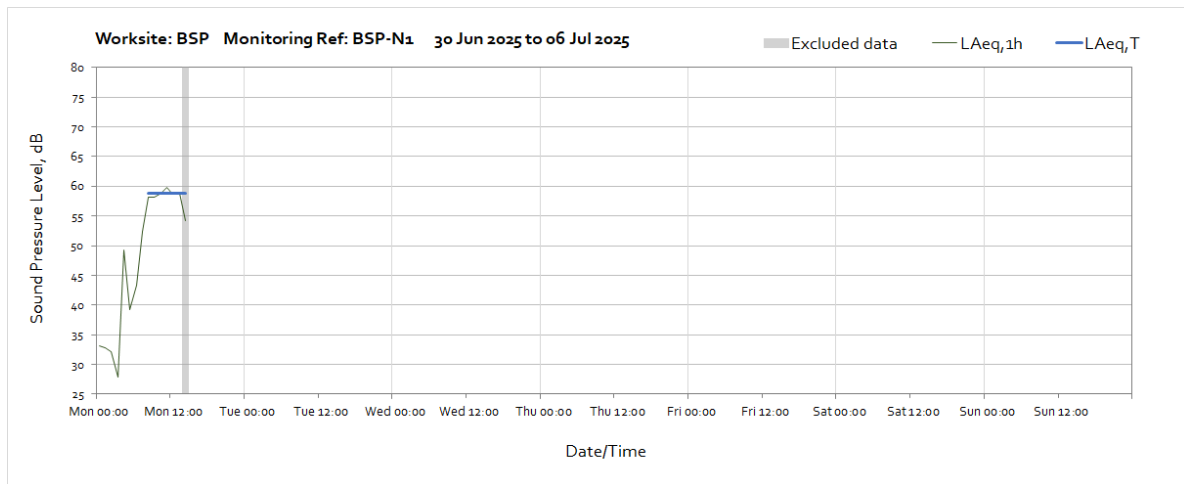
## Worksite: BSP – Monitoring Ref: BSP-N1





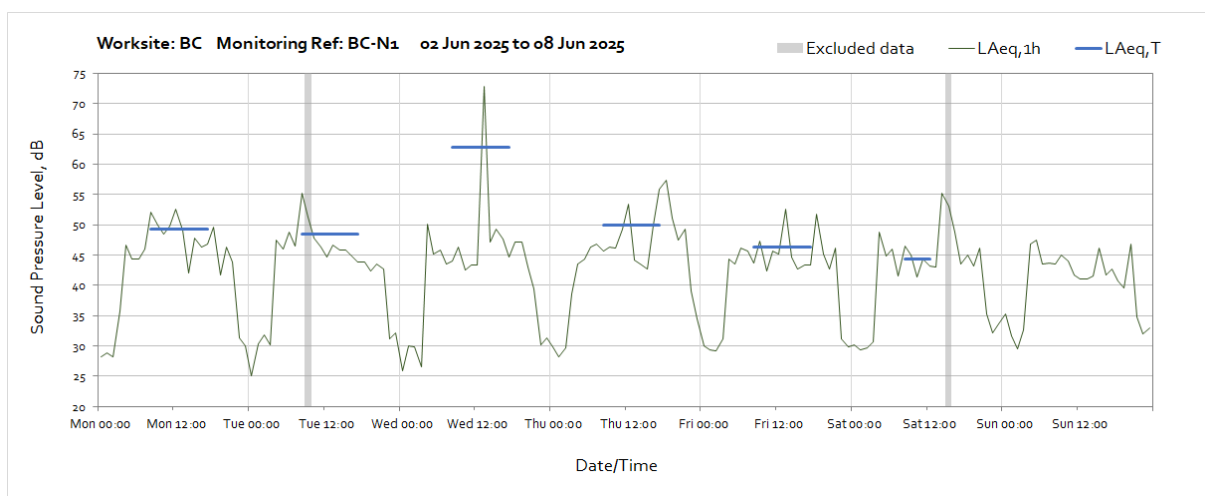
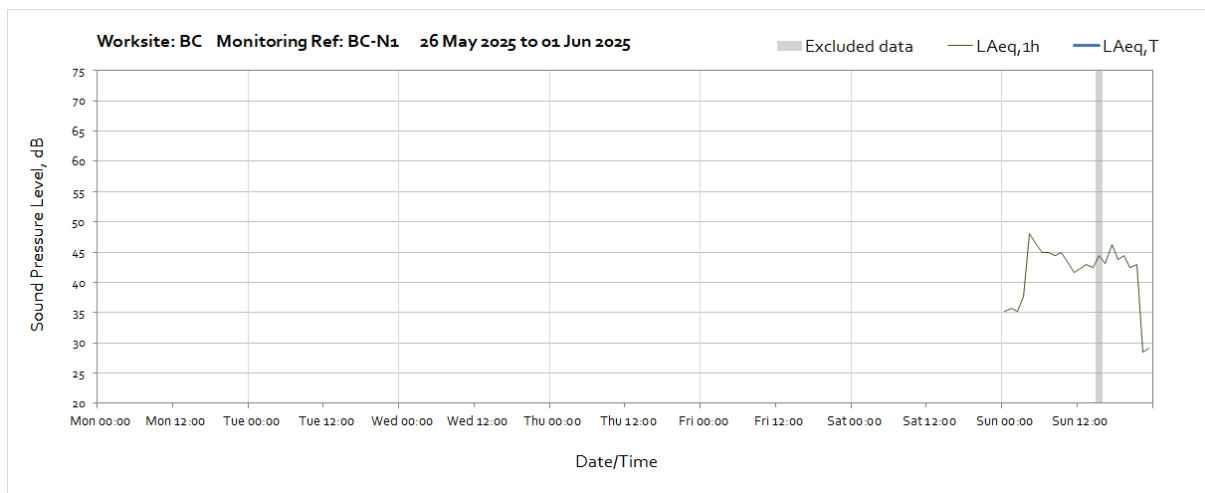
Note: Missing data from 22:00 on Saturday 21<sup>st</sup> June until 01:00 on Sunday 22<sup>nd</sup> June and from 13:00 until 18:00 on Sunday 22<sup>nd</sup> June was due to a failed restart of the monitoring station.

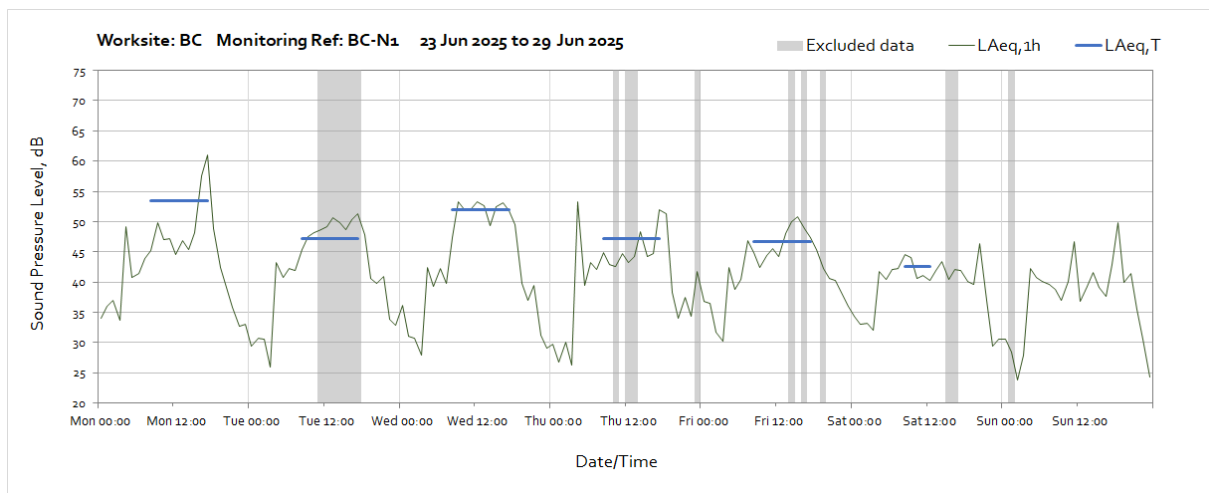
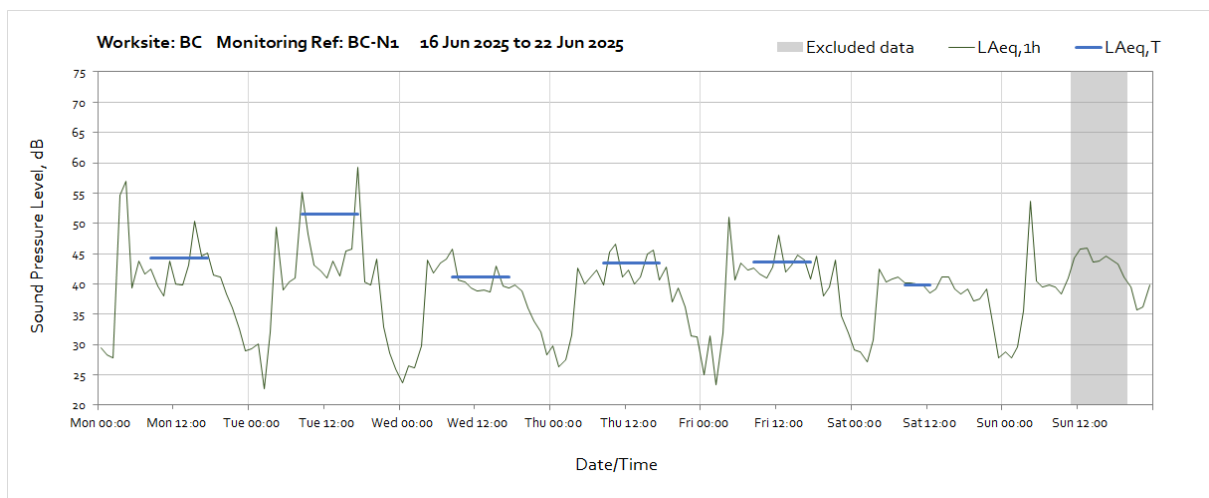
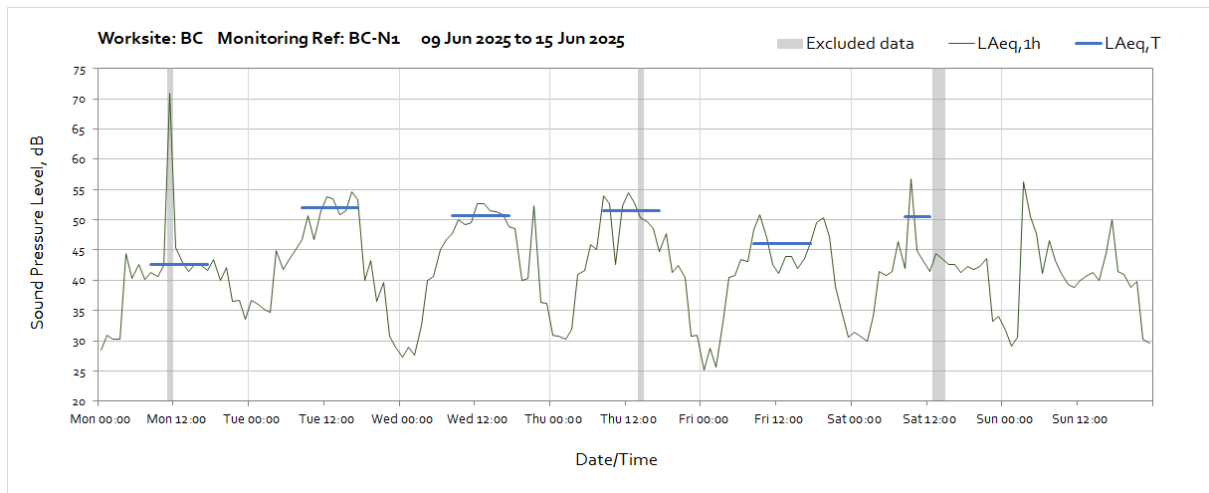


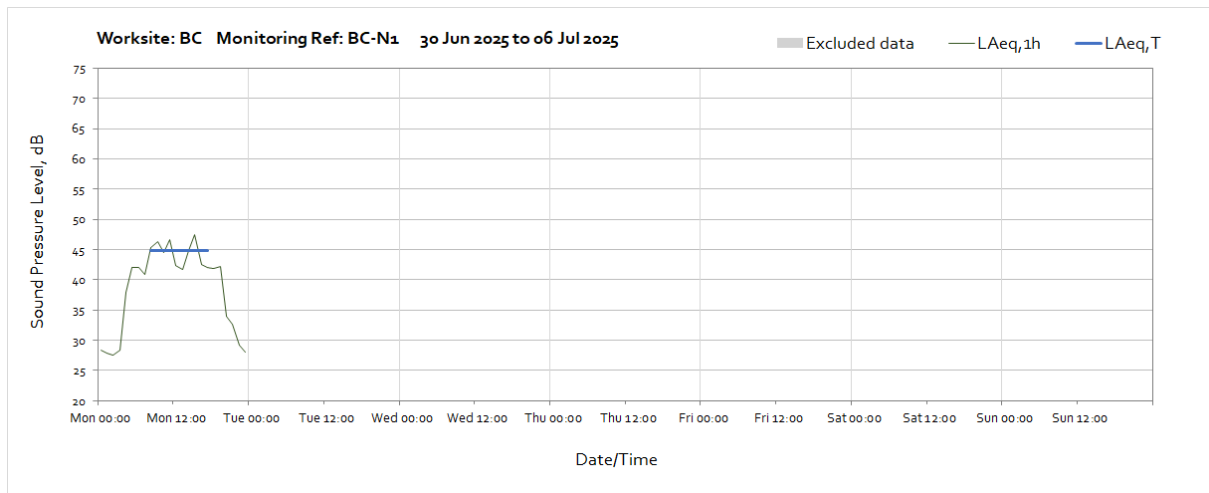


Note: Missing data from 15:00 on Monday 30<sup>th</sup> June until the end of the month was due to a failed restart of the monitoring station.

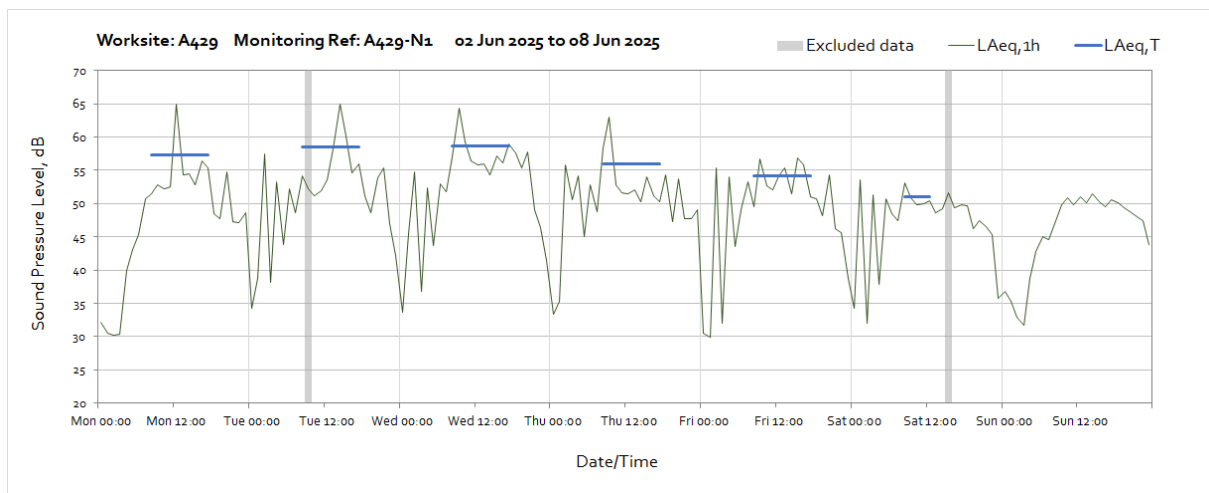
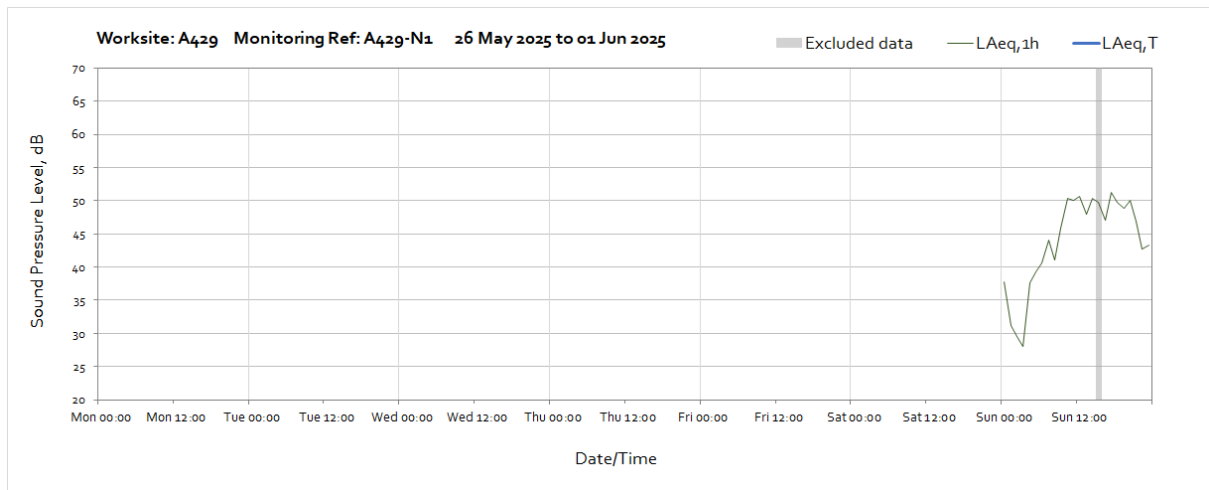
## Worksite: BC – Monitoring Ref: BC-N1



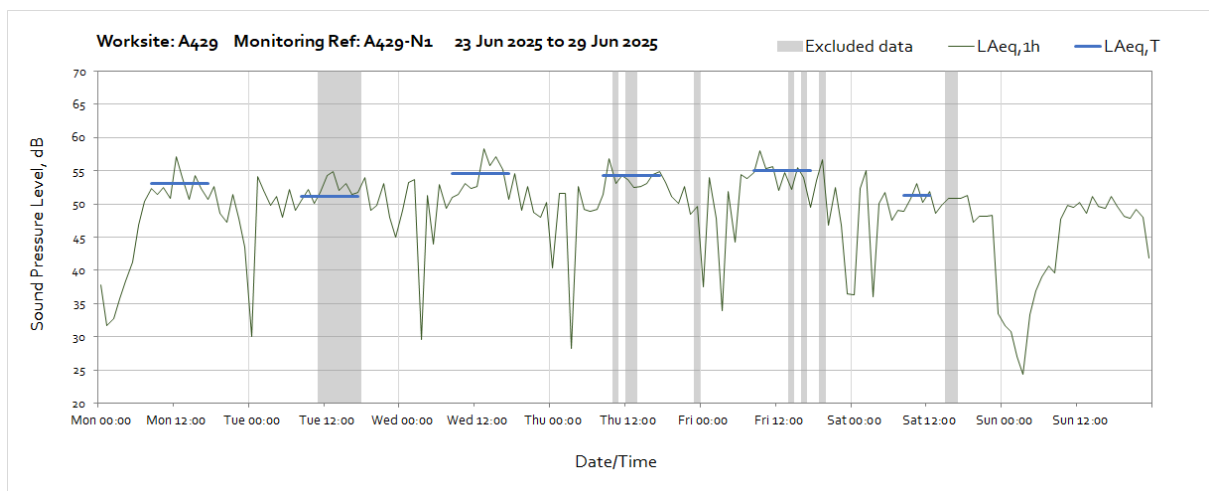
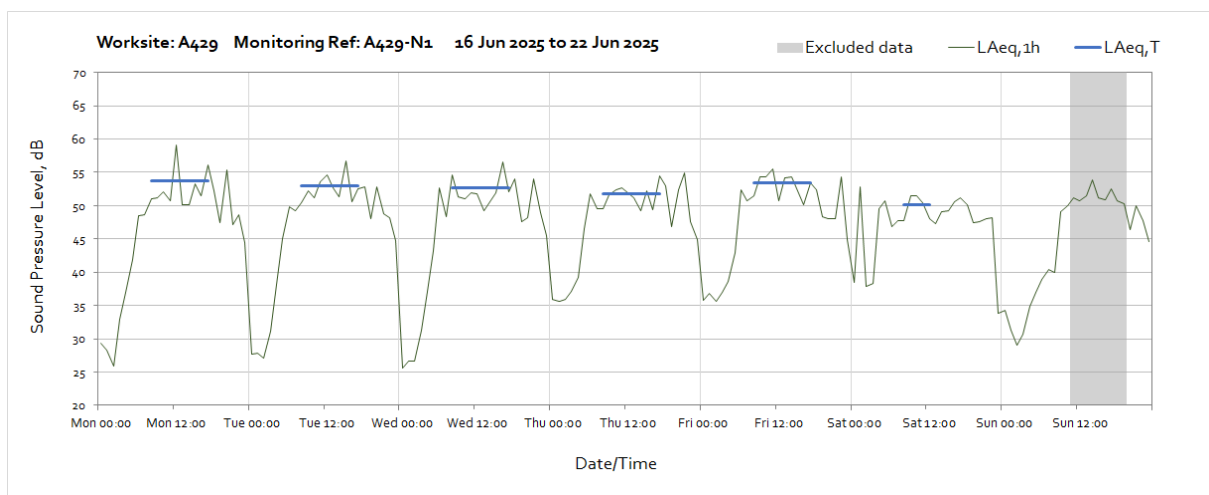
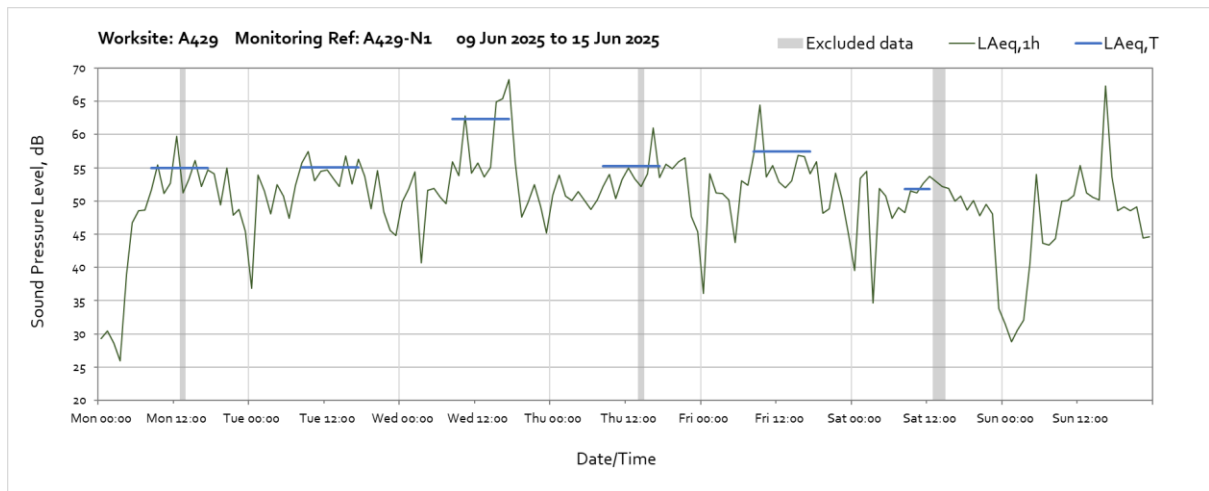


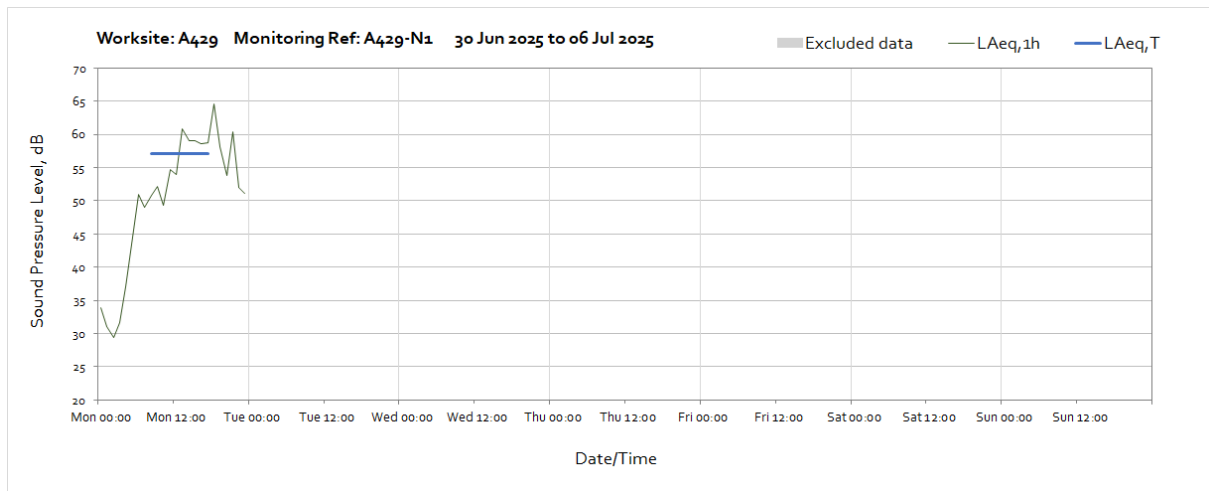


## Worksite: A429 – Monitoring Ref: A429-N1

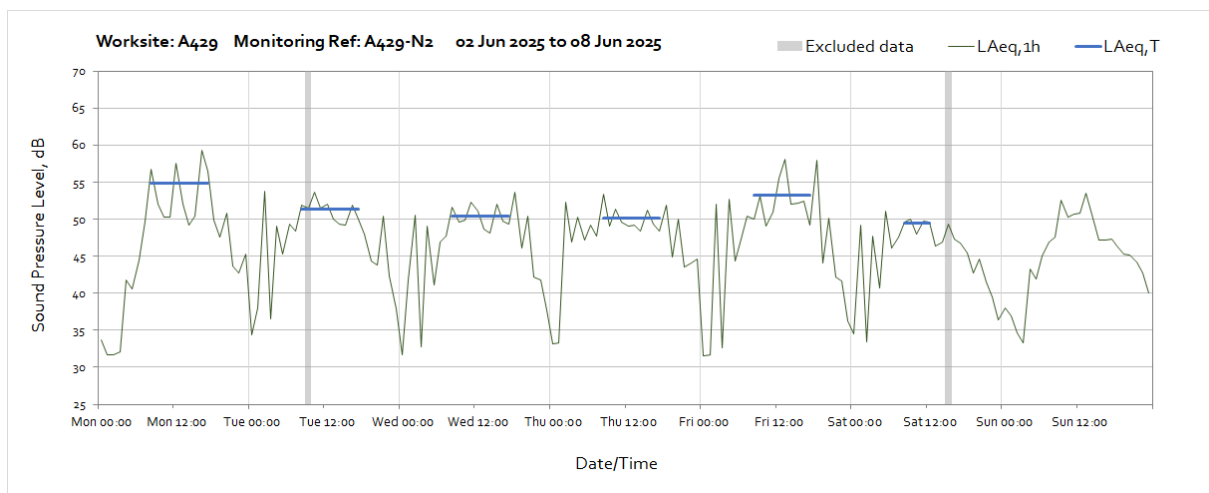
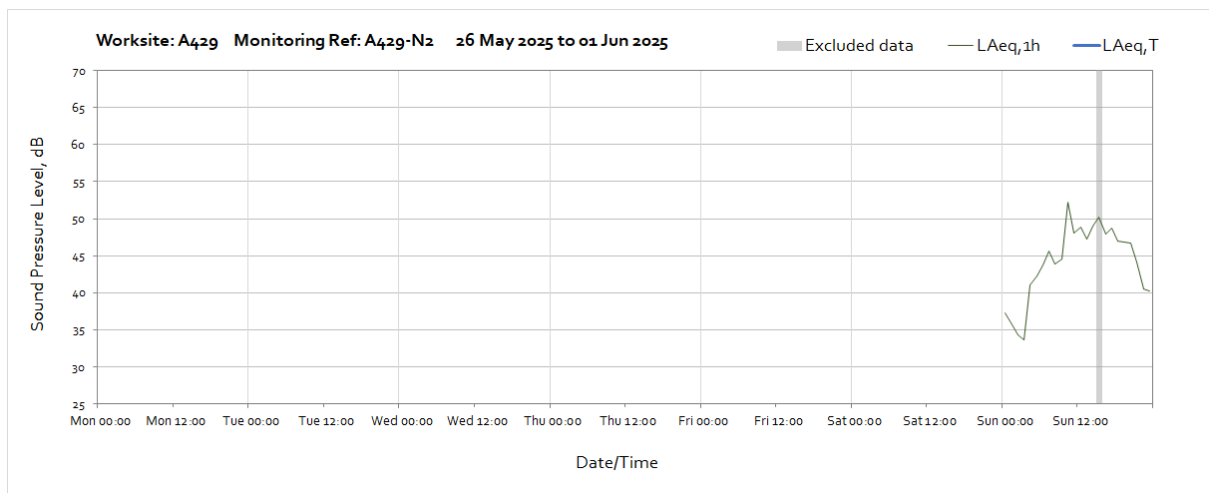


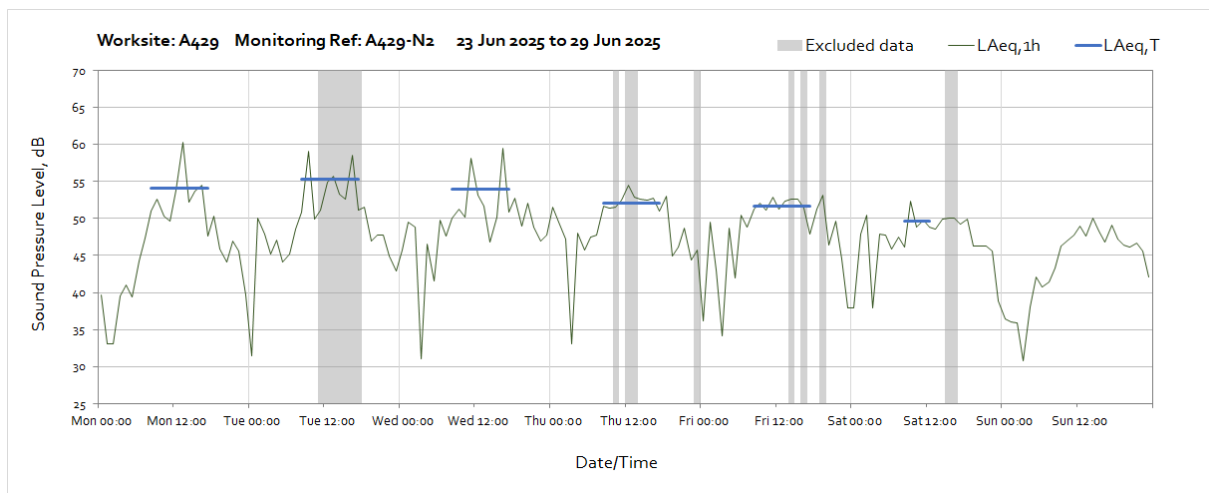
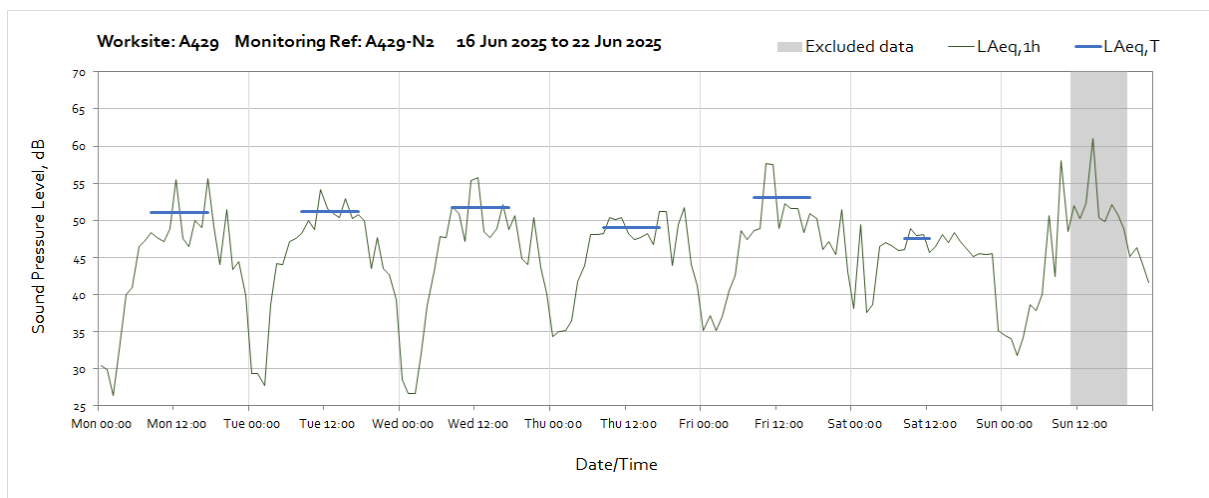
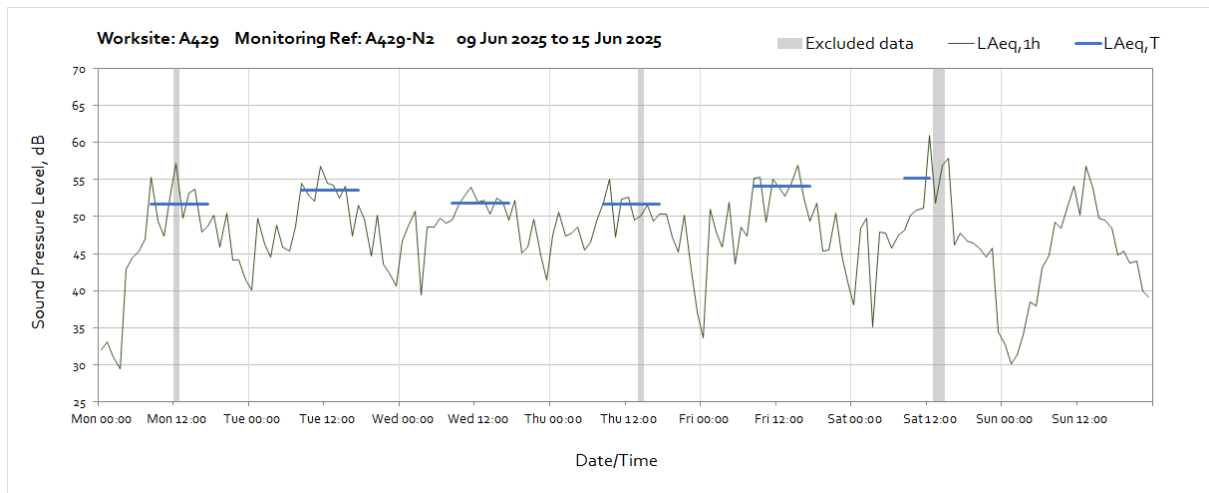


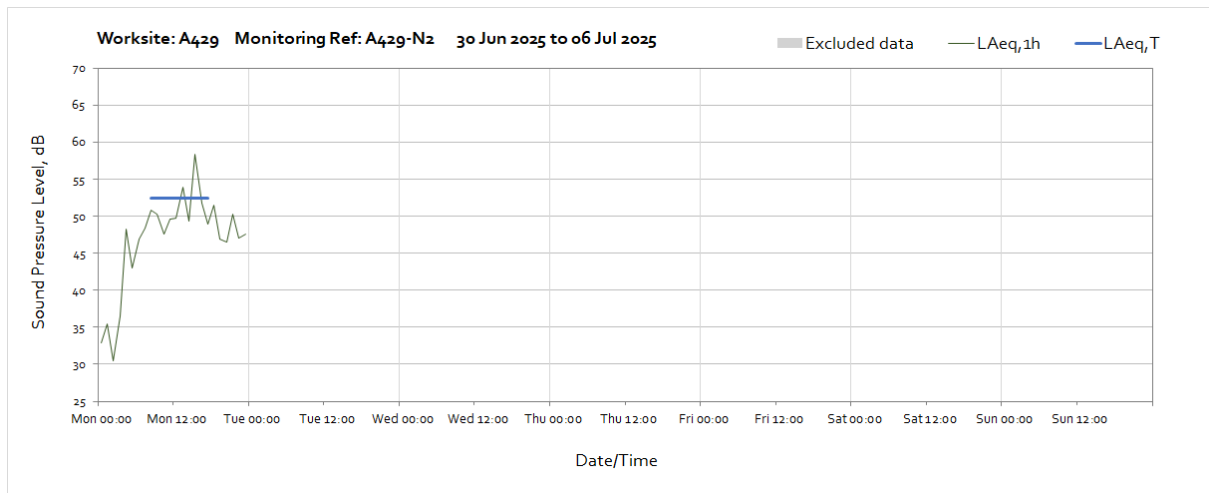




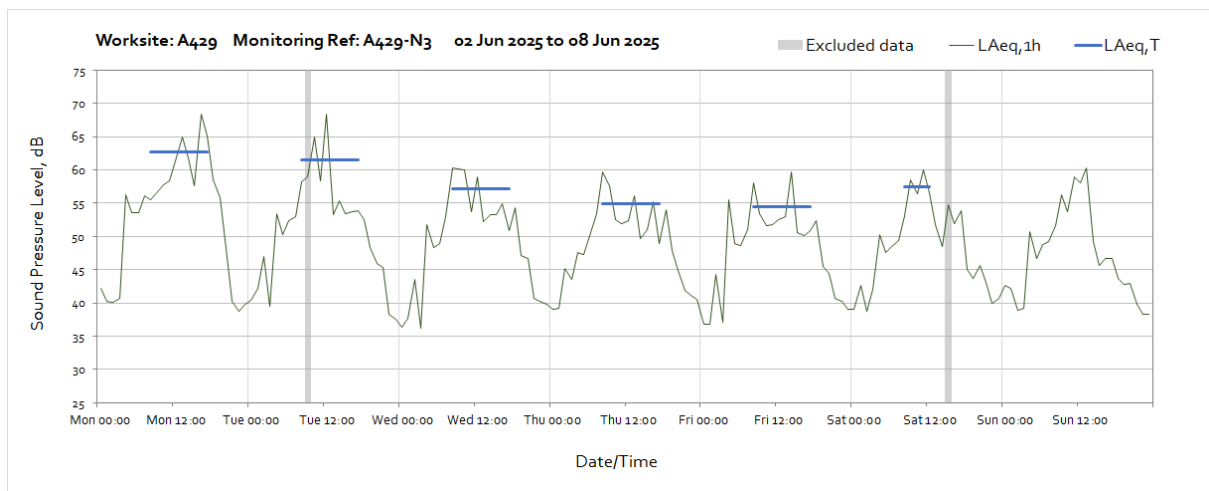
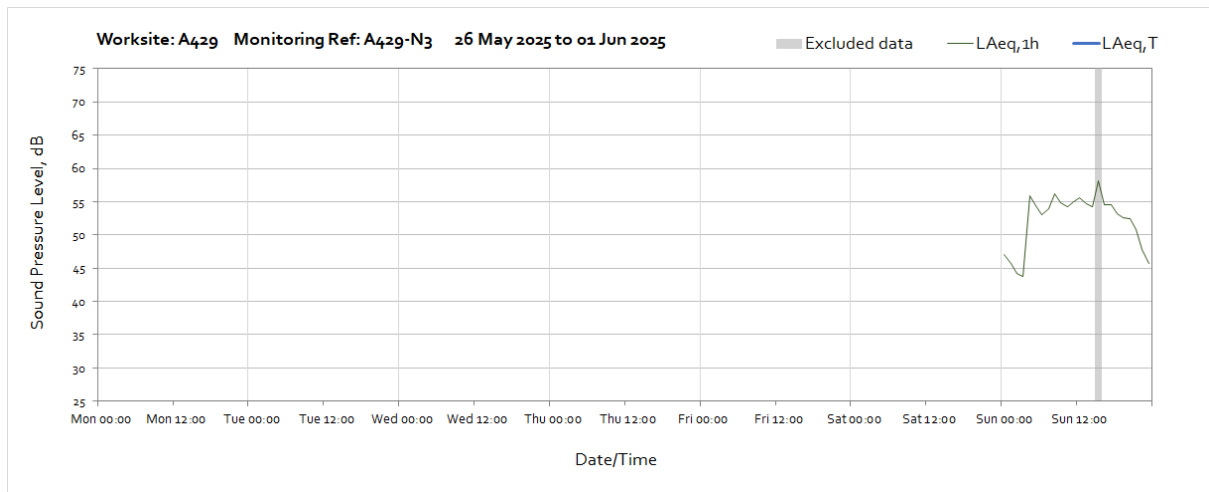
## Worksite: A429 – Monitoring Ref: A429-N2

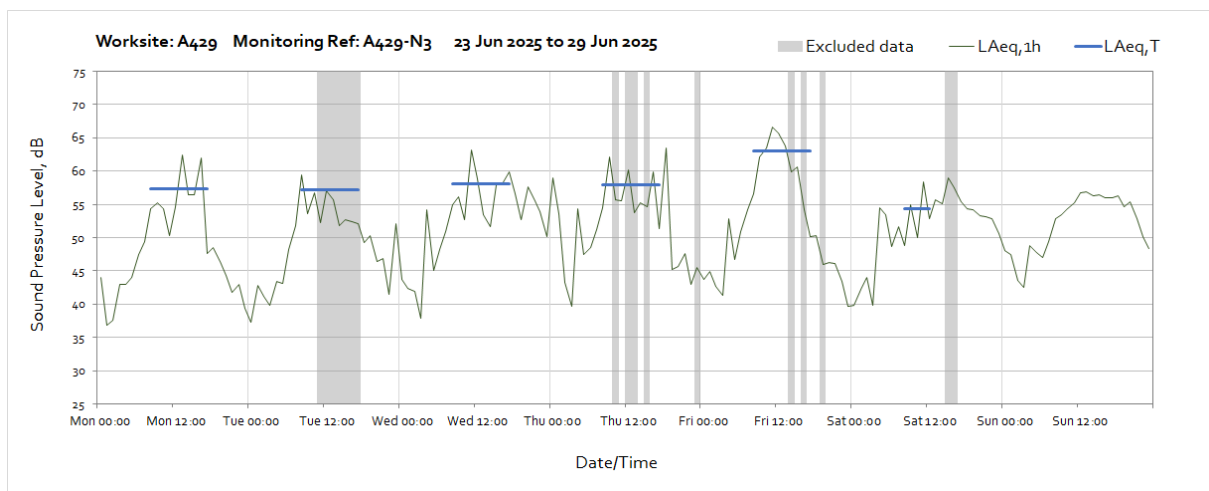
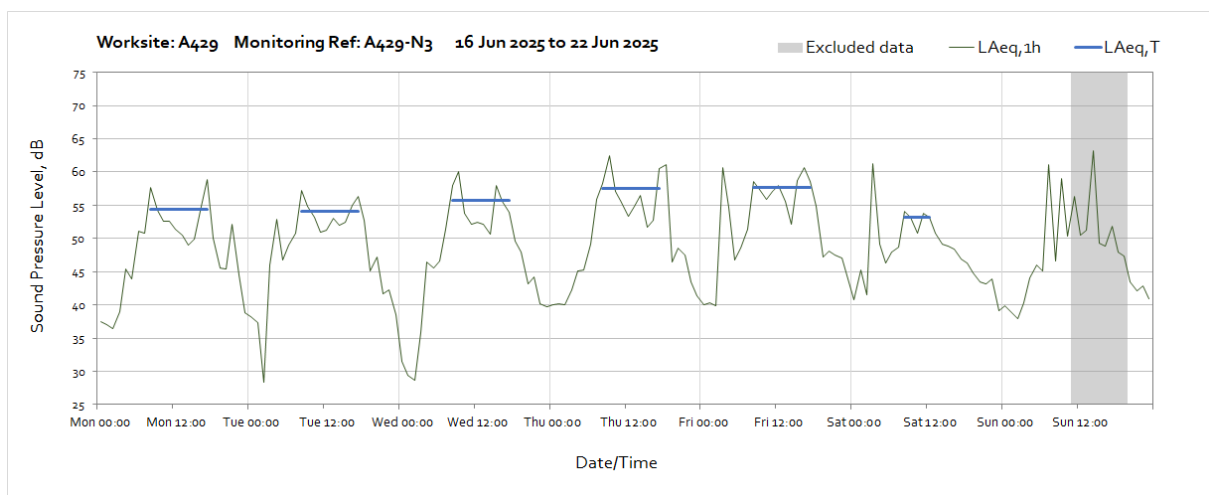
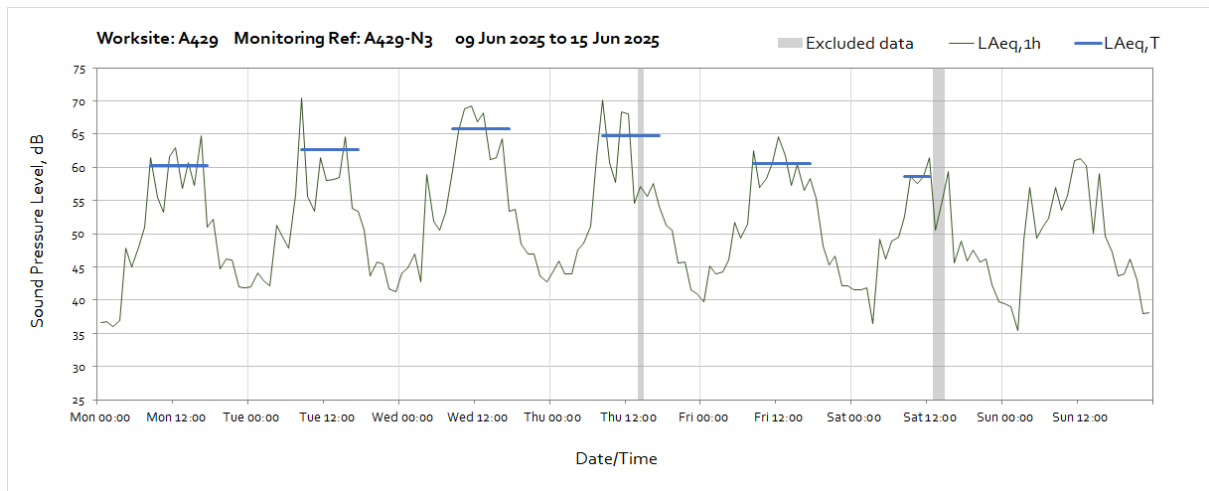


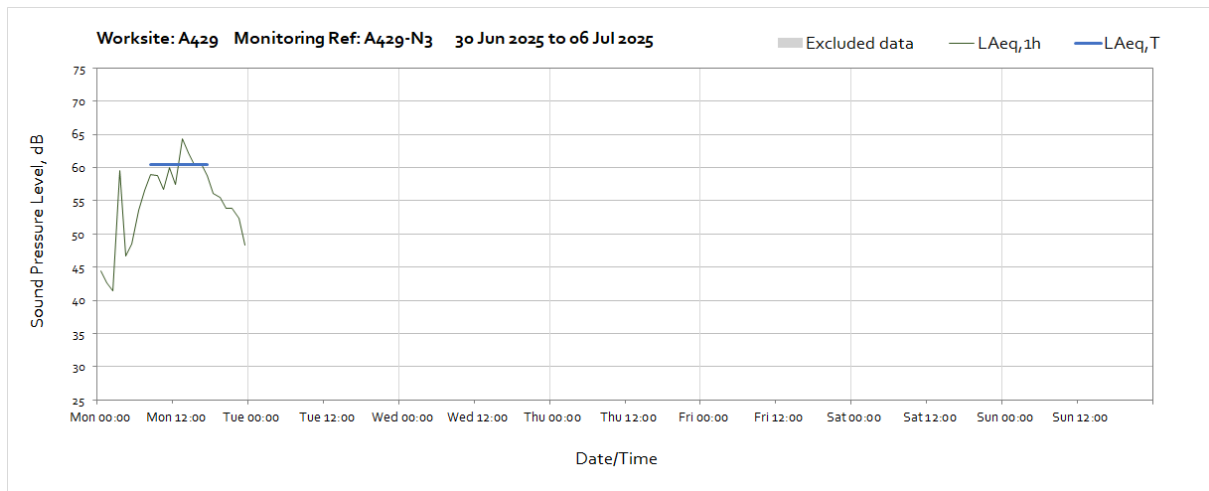




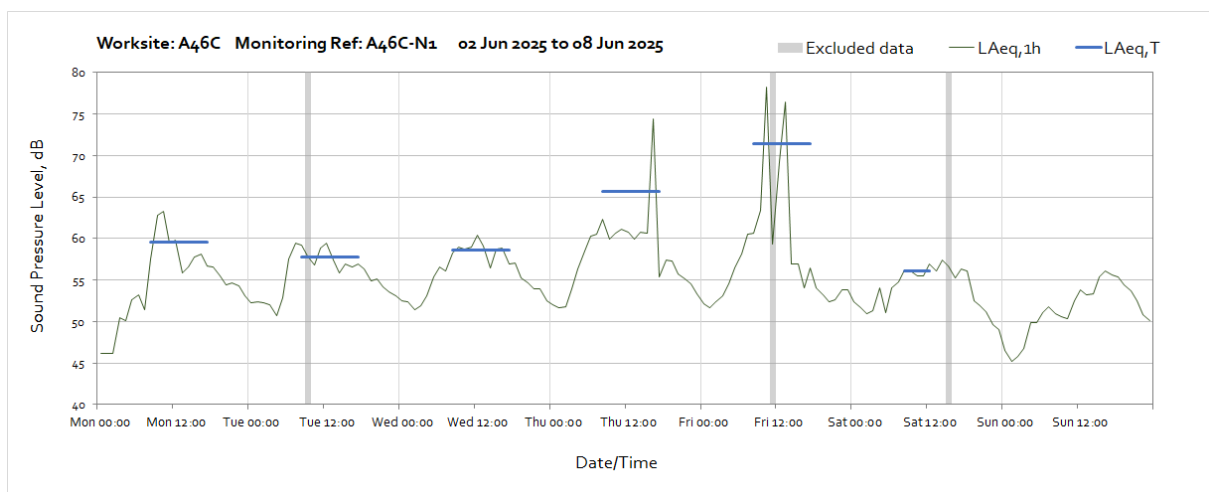
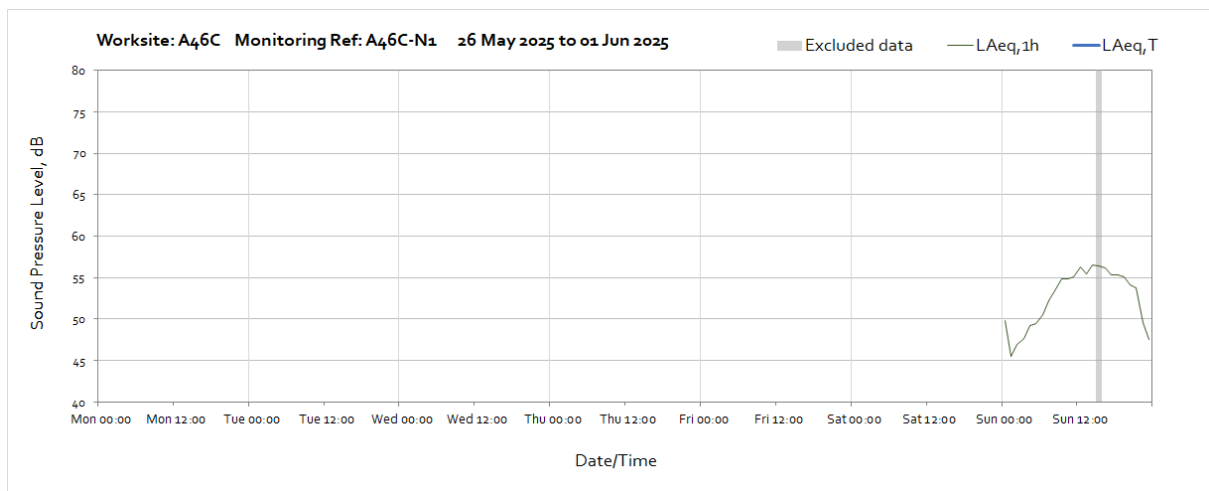
## Worksite: A429 – Monitoring Ref: A429-N3

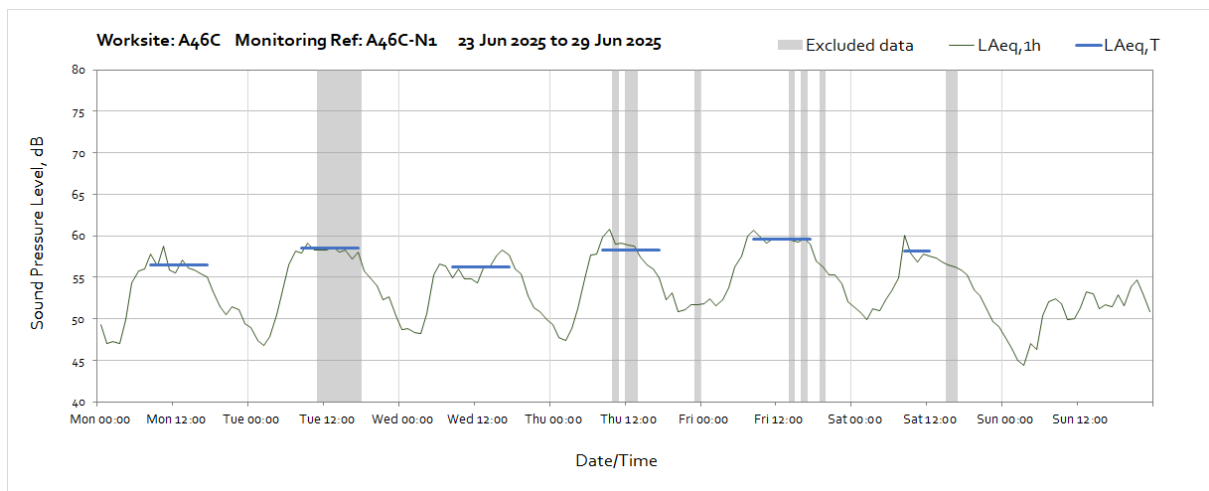
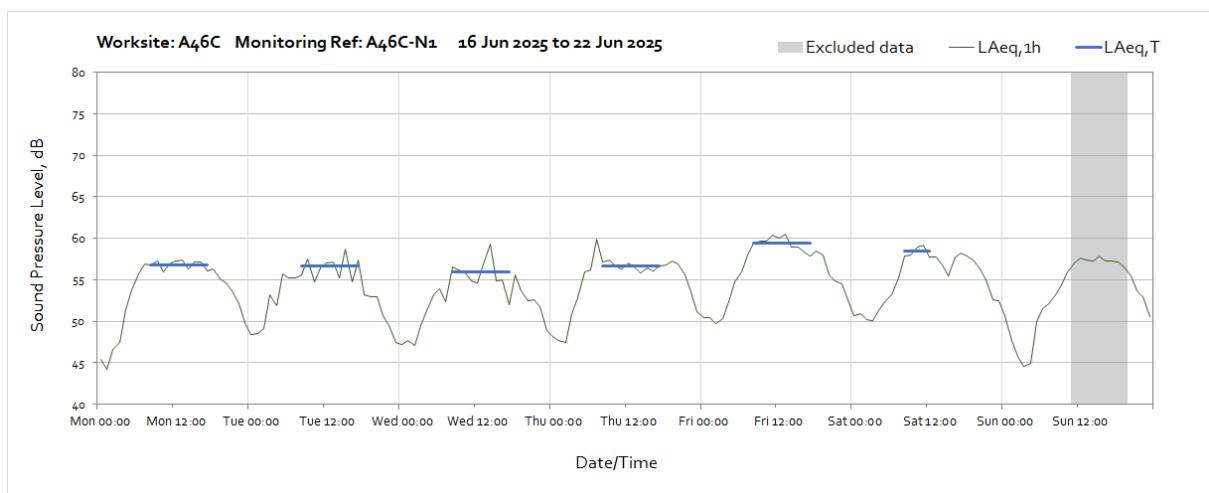
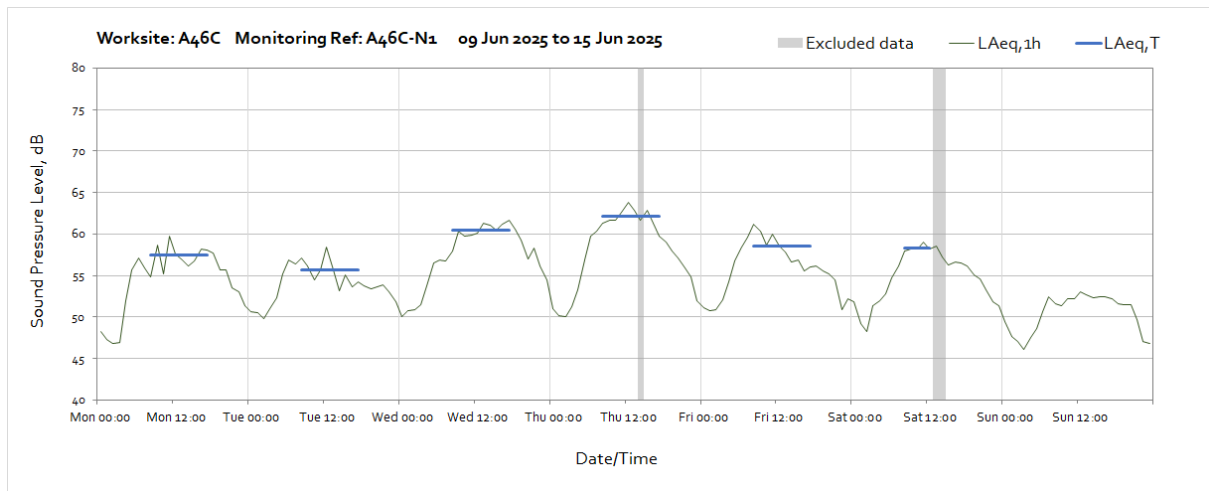


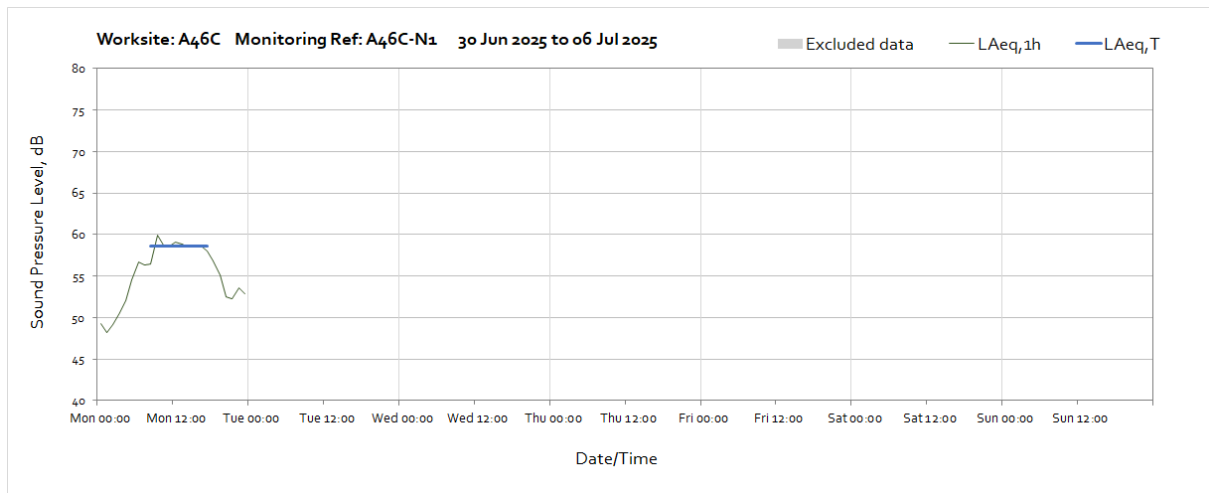




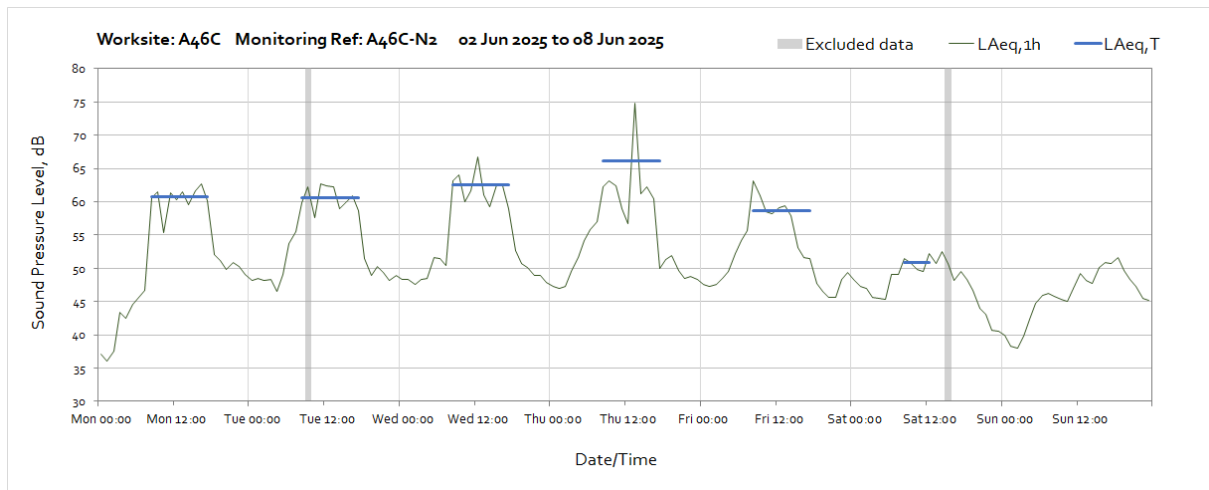
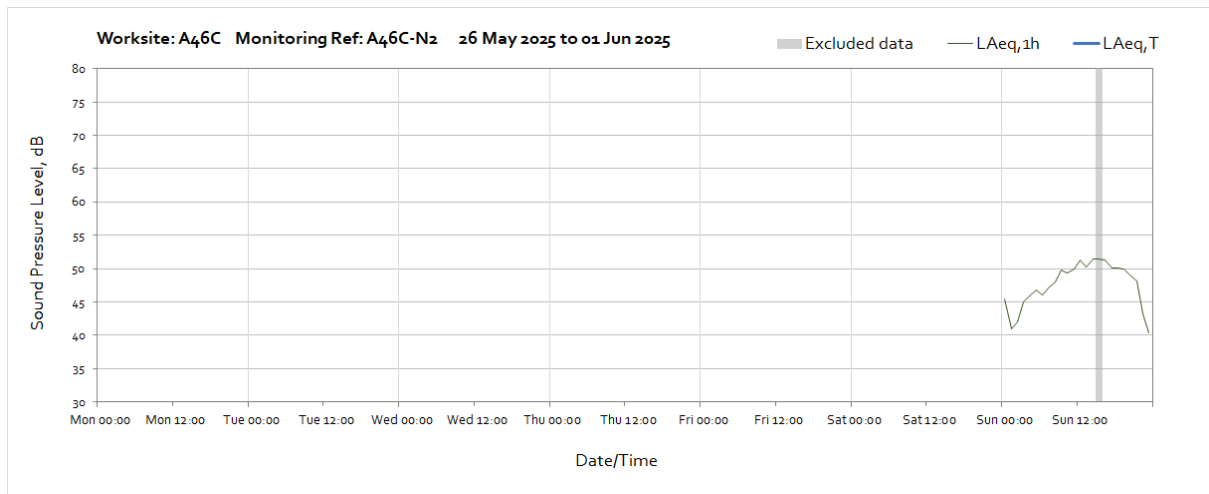
## Worksite: A46C – Monitoring Ref: A46C-N1



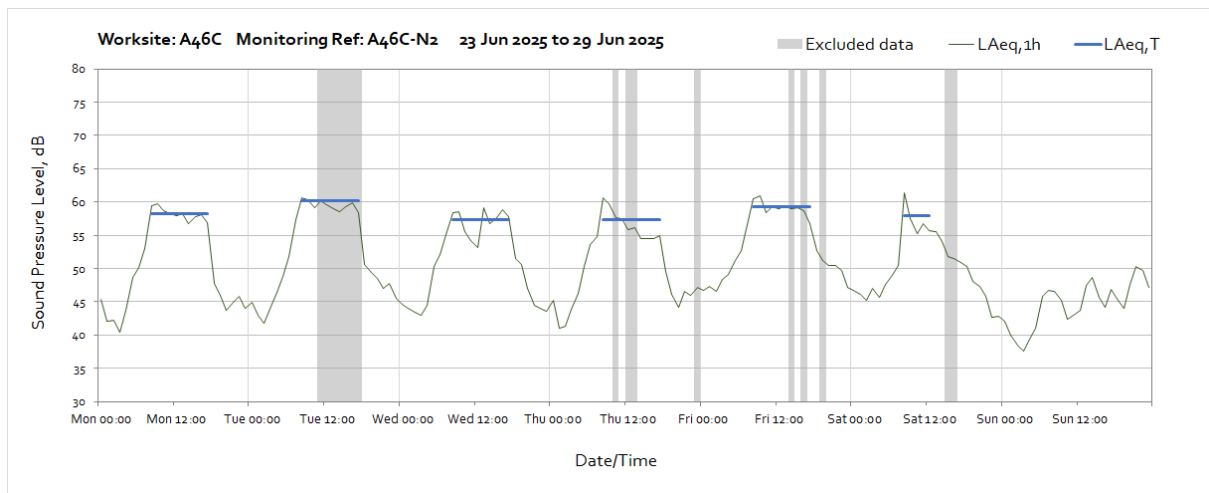
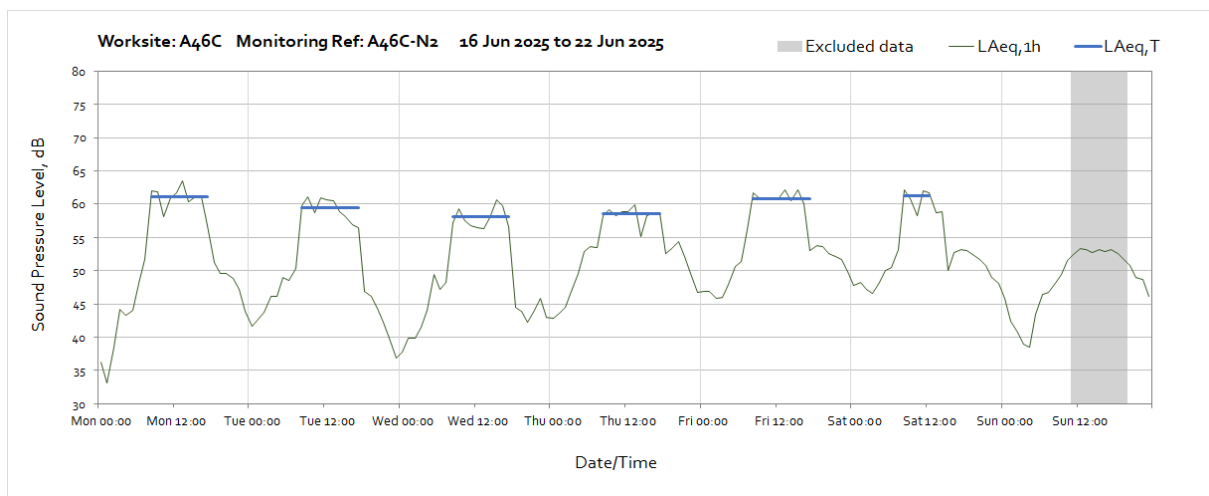
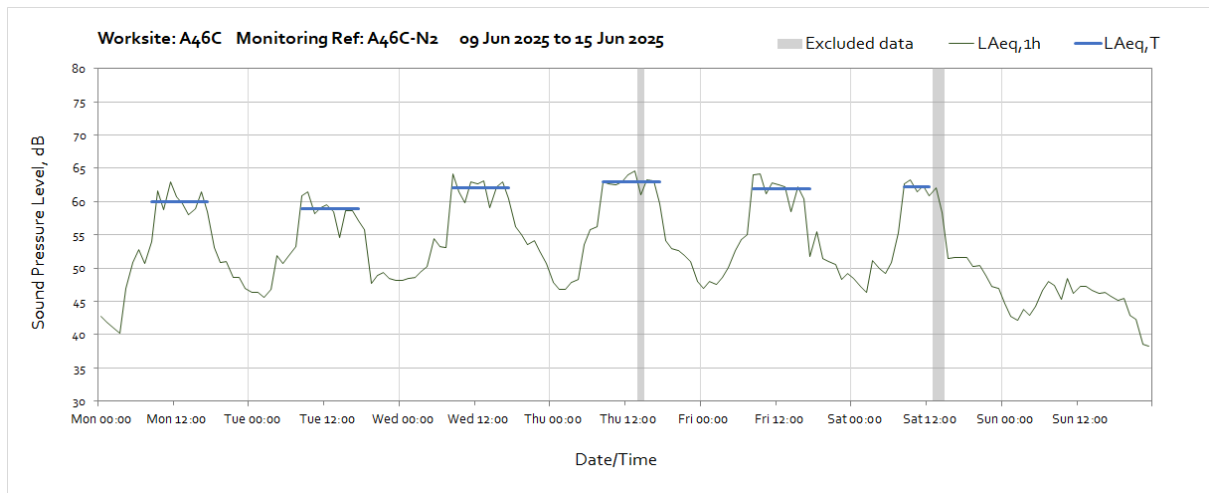


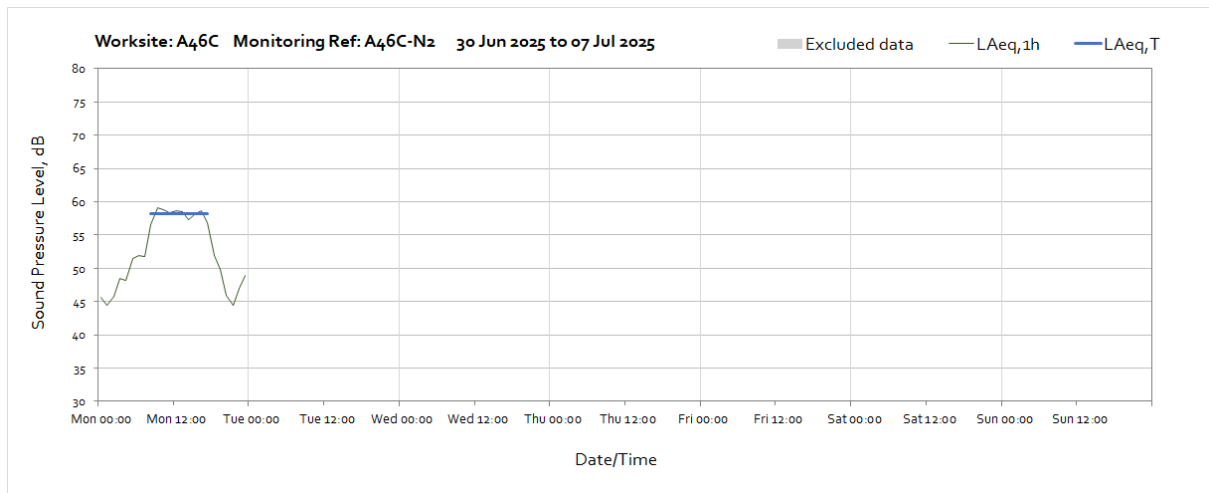


## Worksite: A46C – Monitoring Ref: A46C-N2

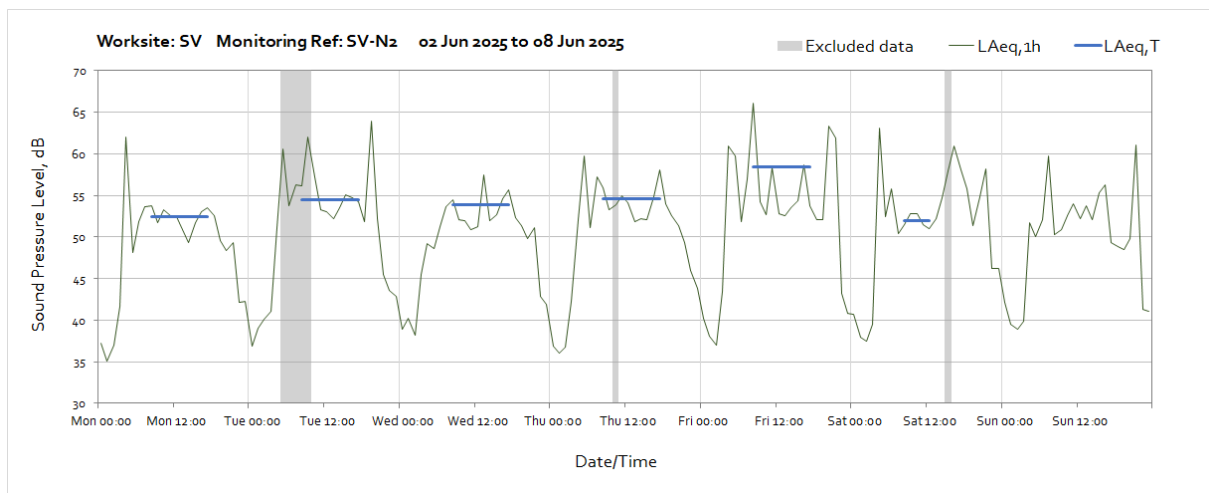
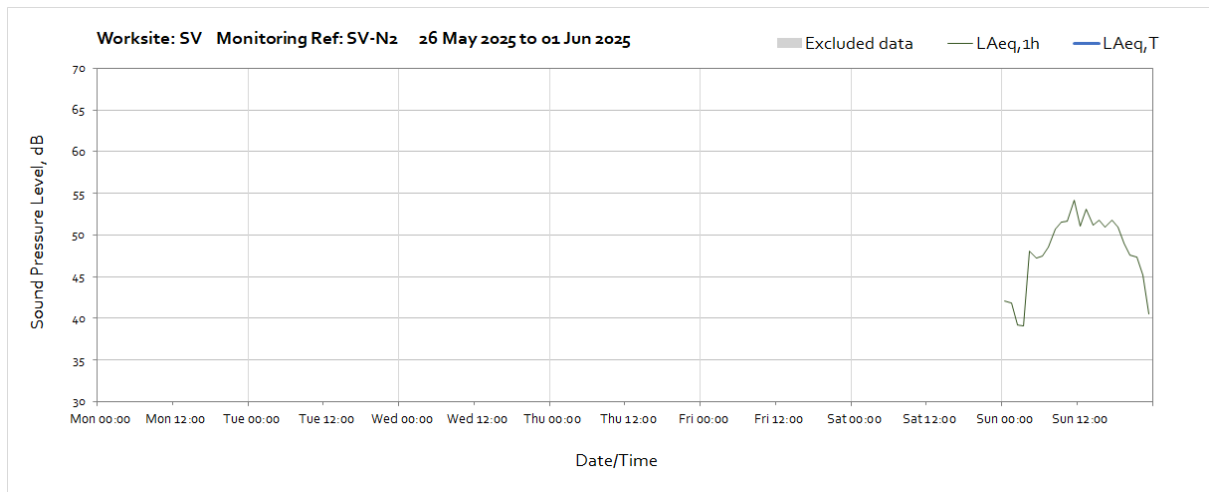


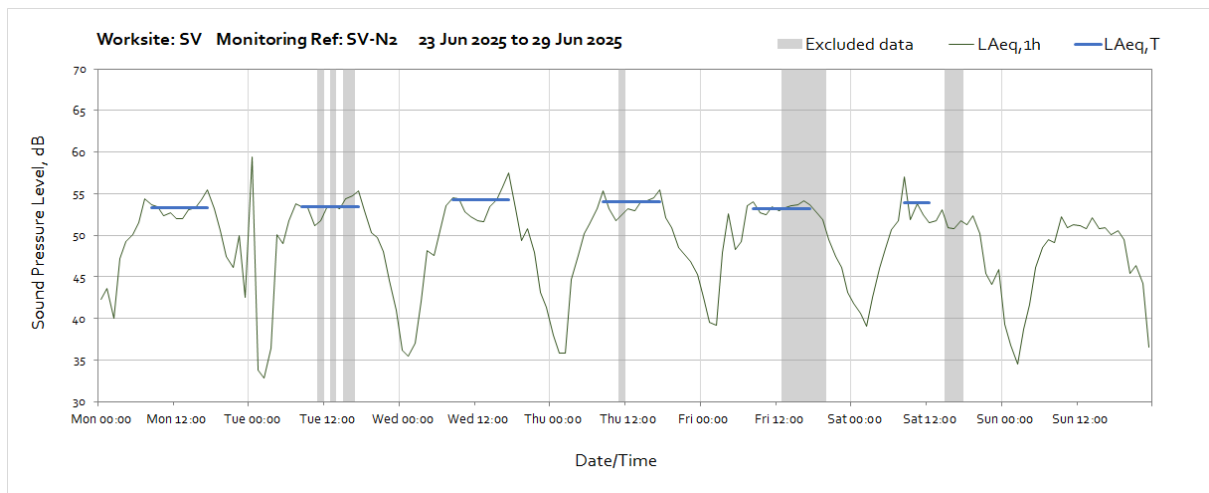
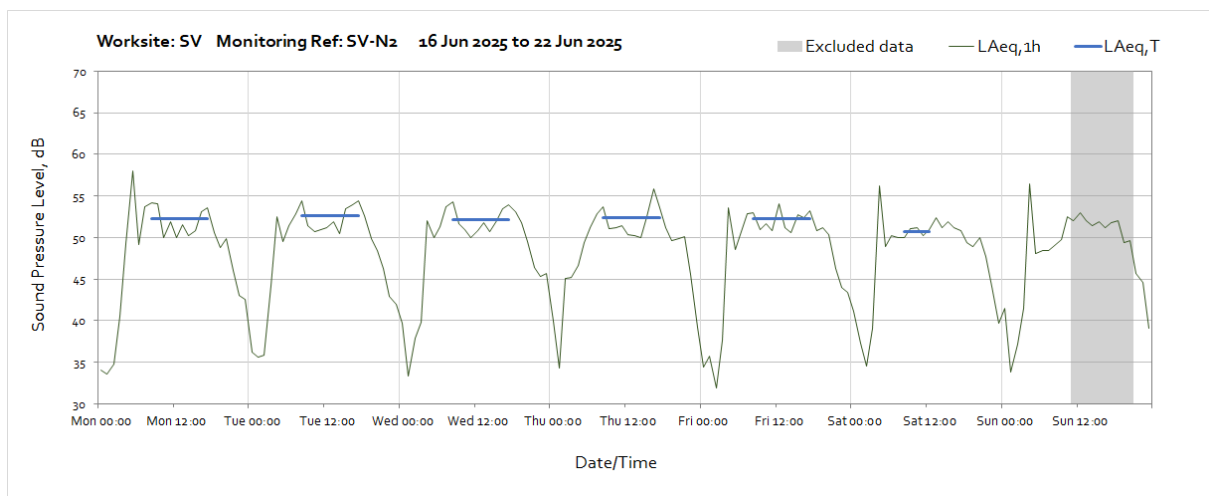
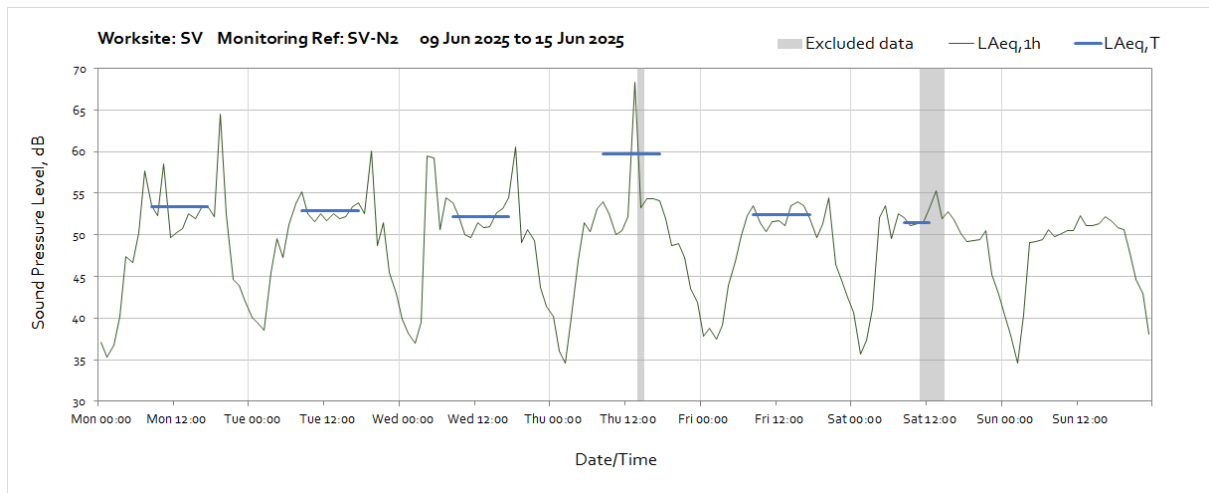


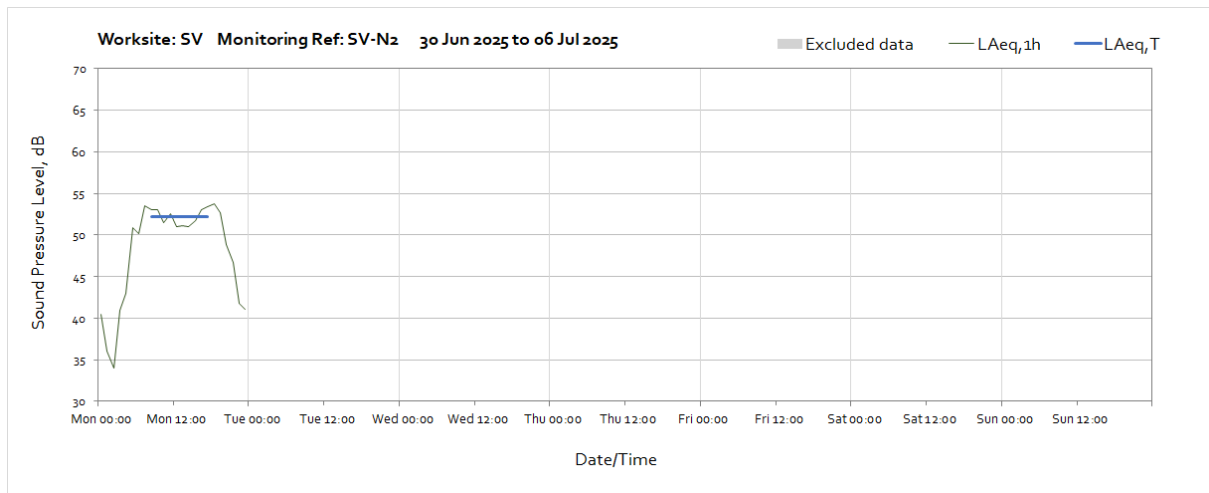




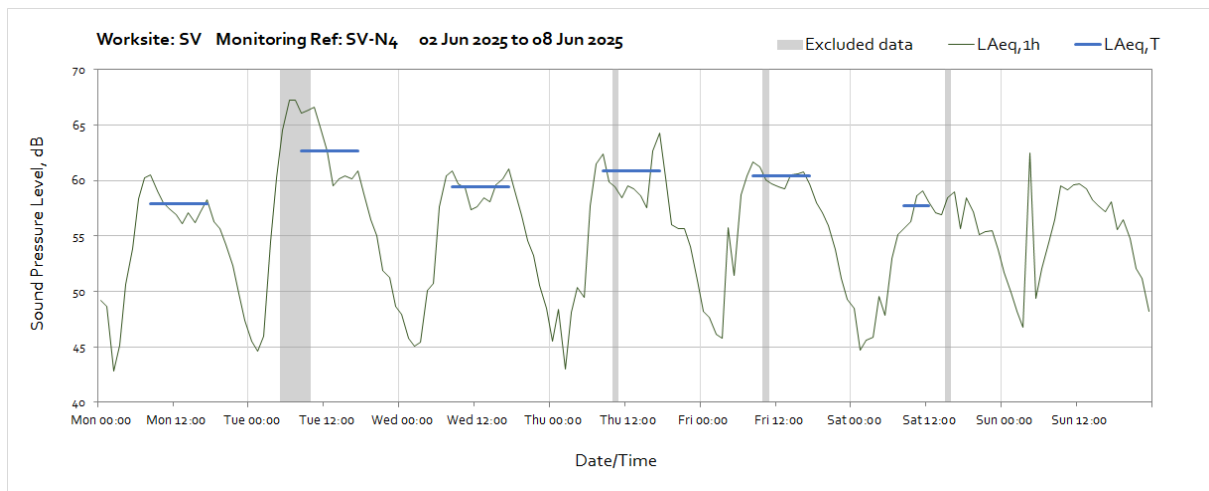
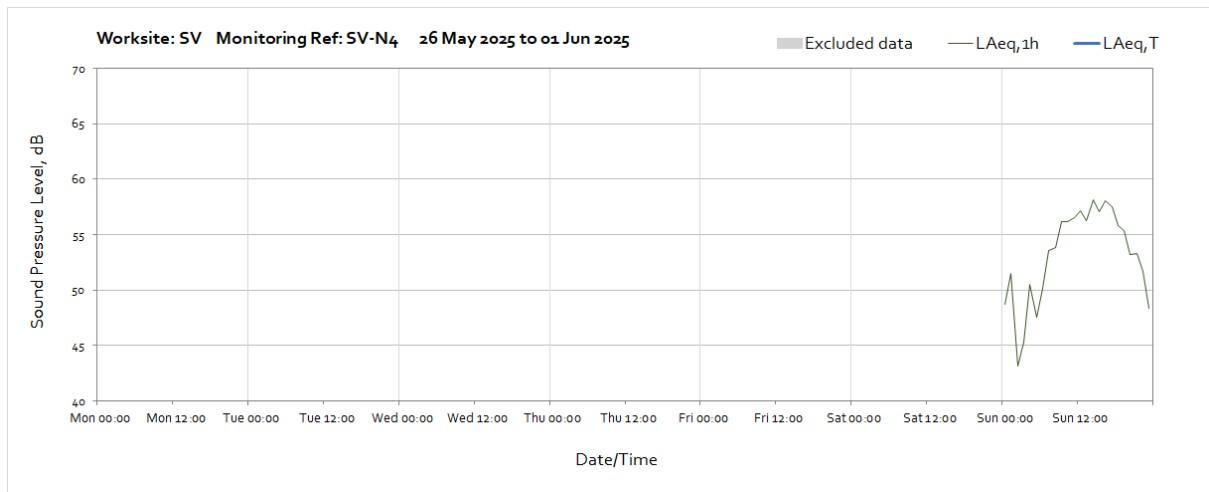
## Worksite: SV – Monitoring Ref: SV-N2

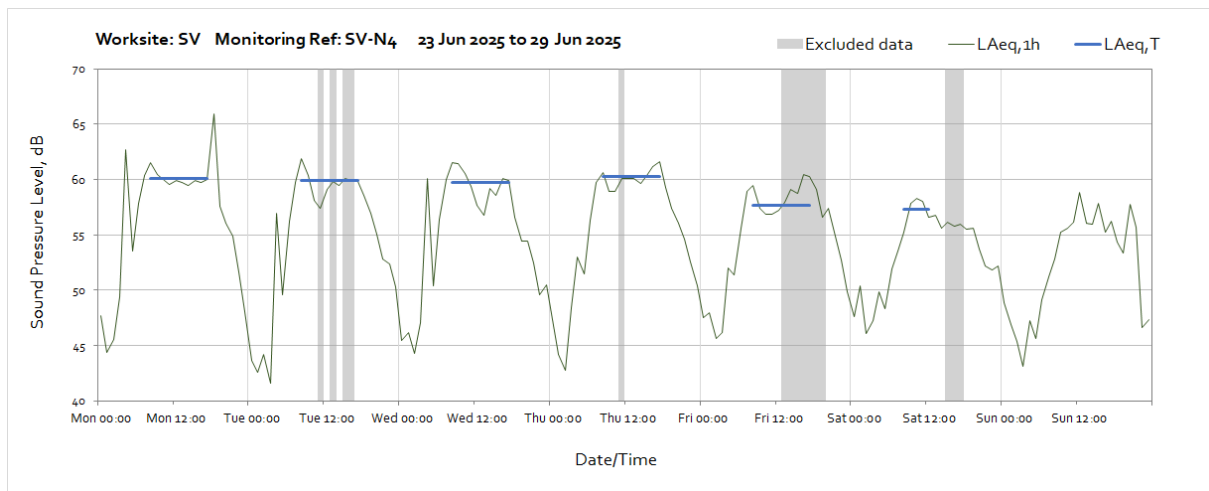
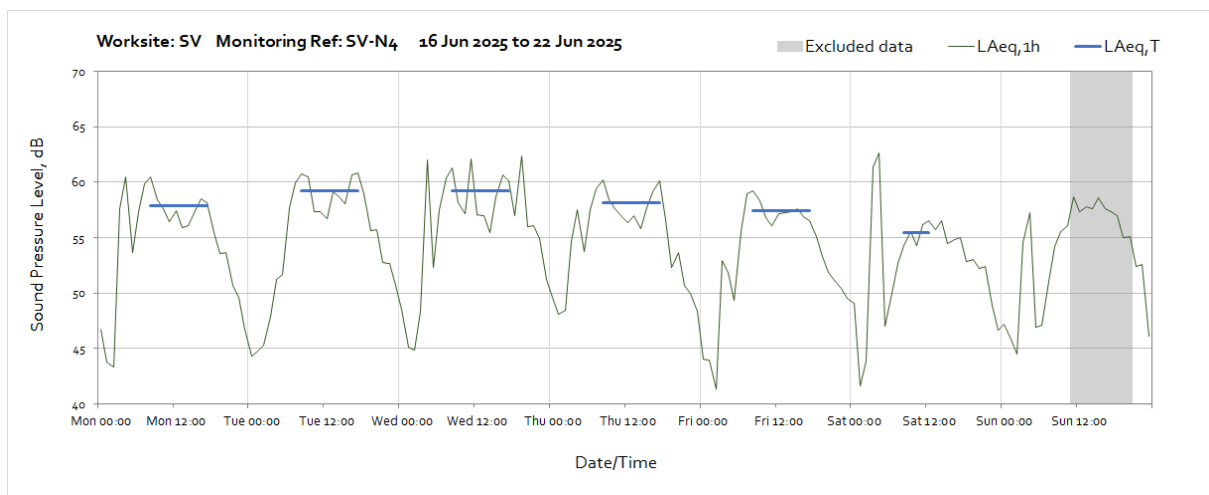
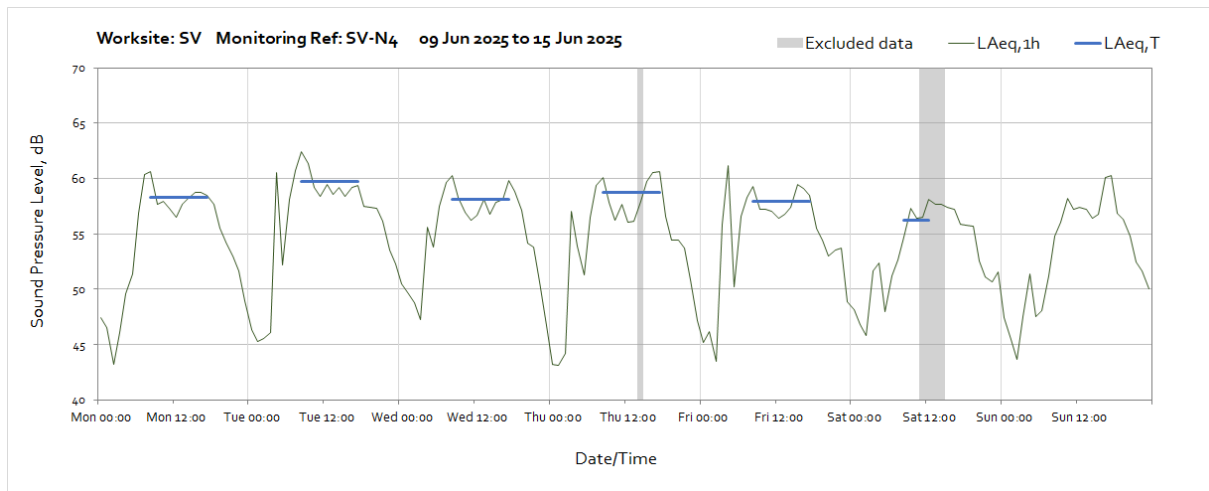


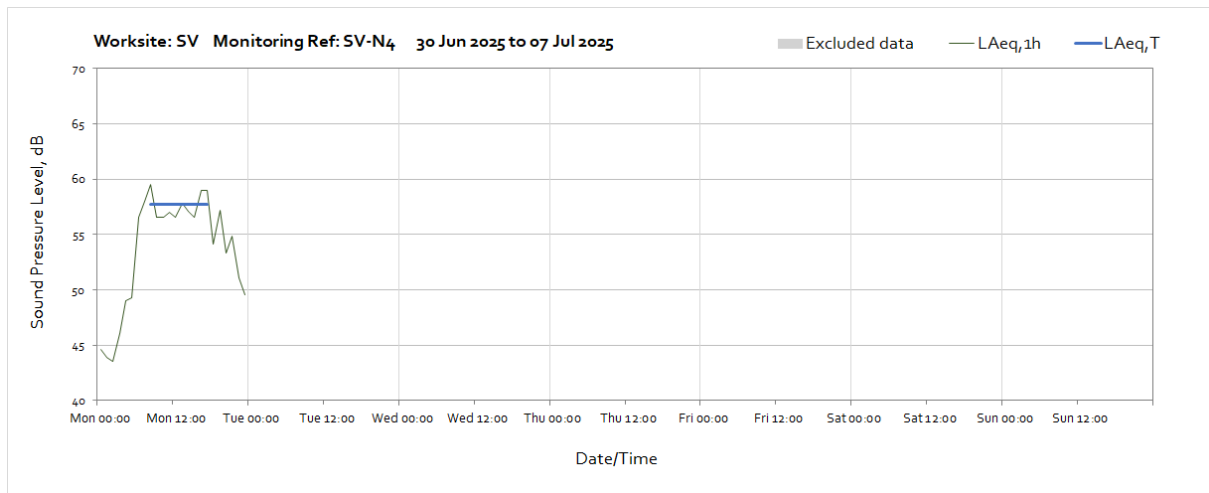




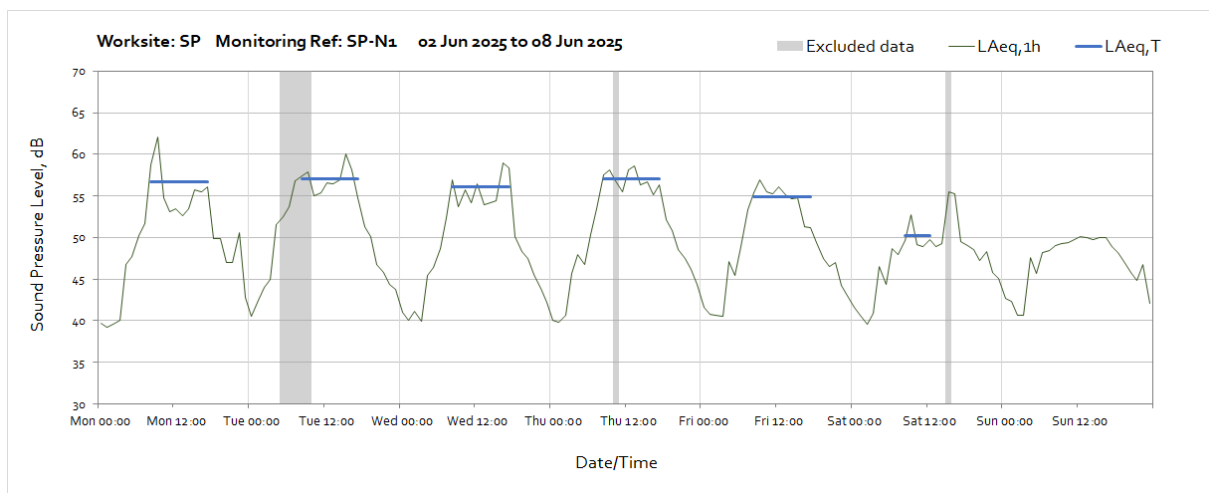
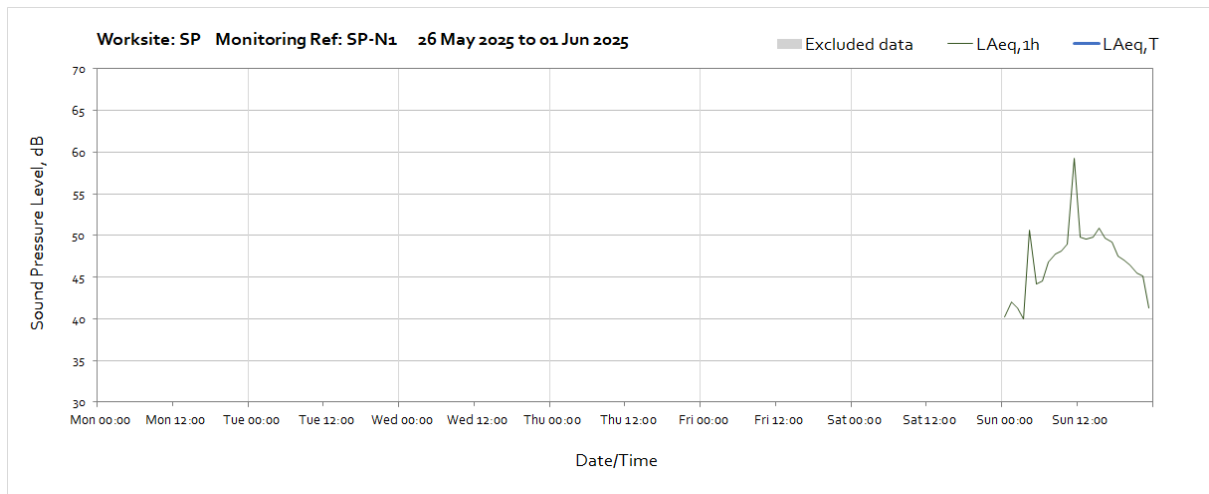
## Worksite: SV – Monitoring Ref: SV-N4

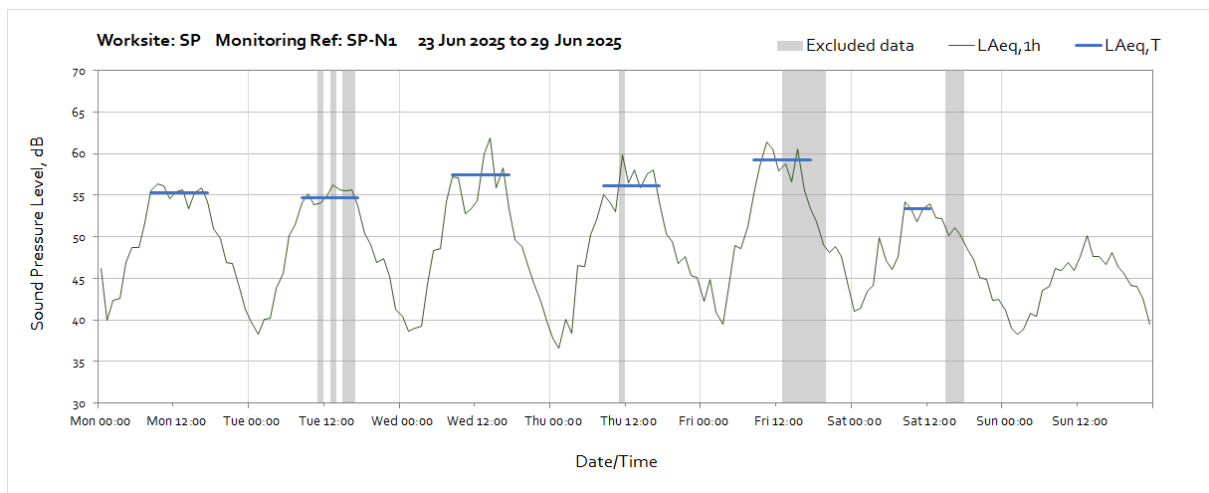
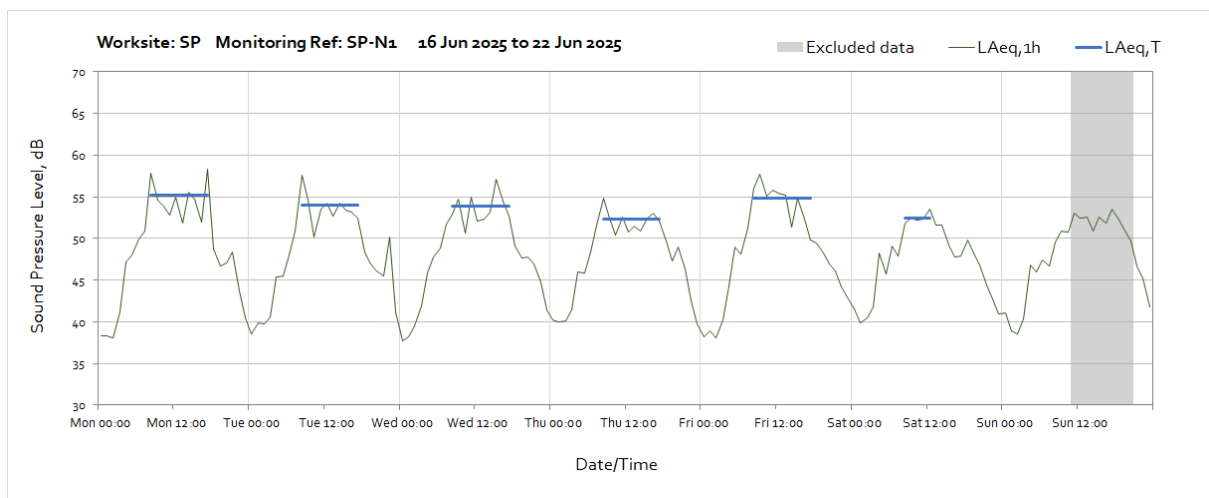
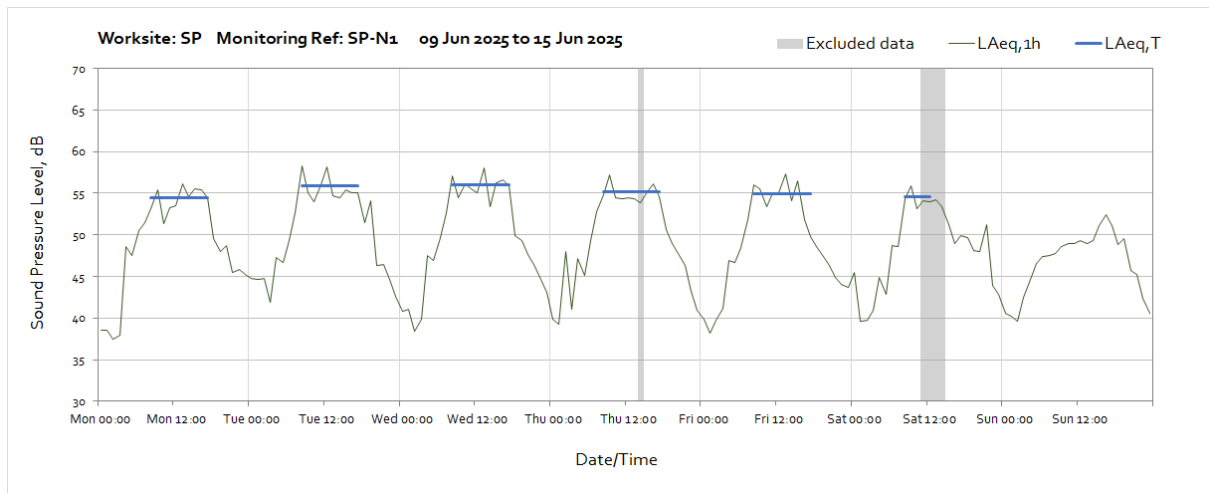


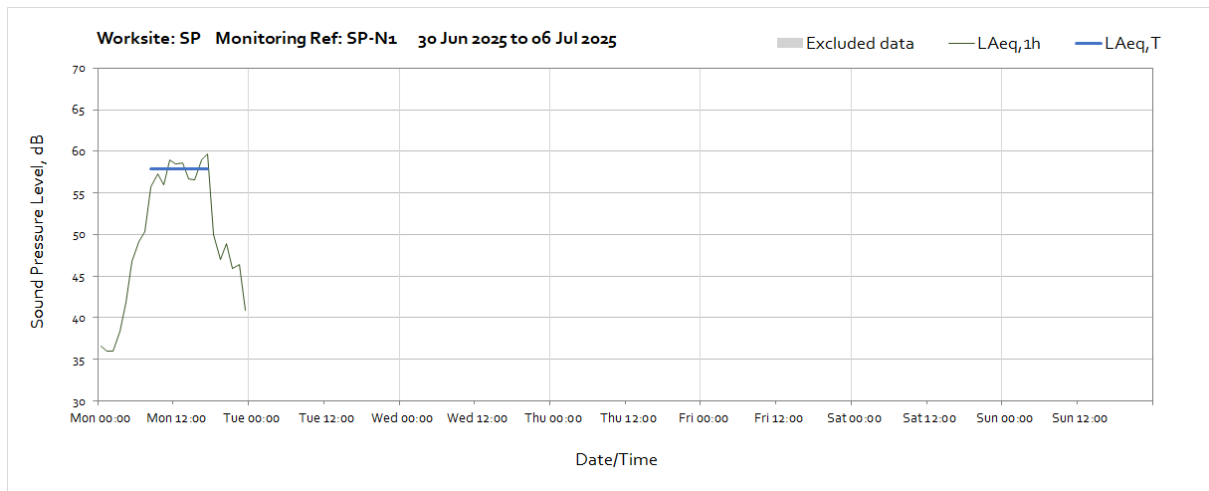




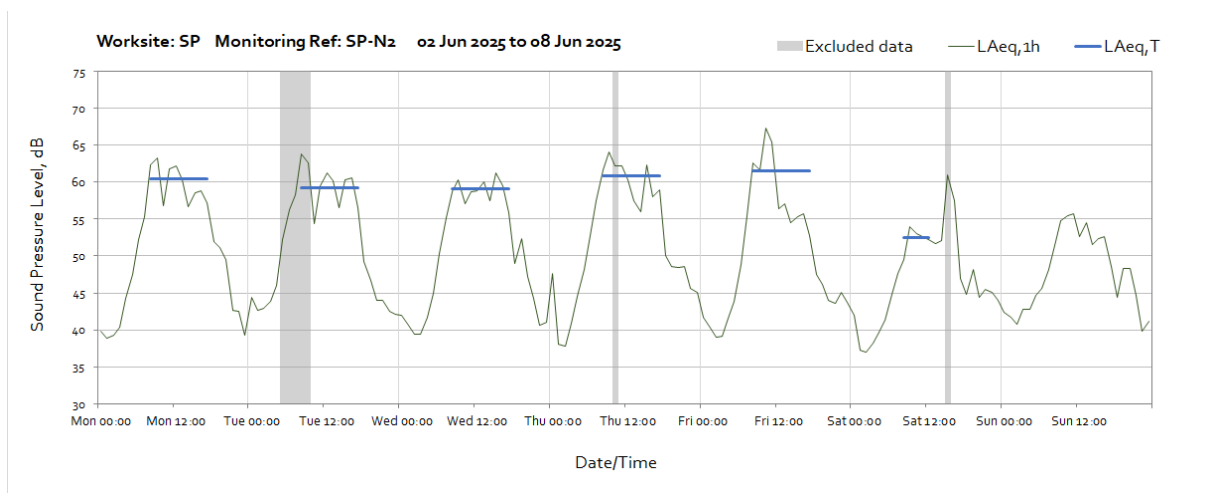
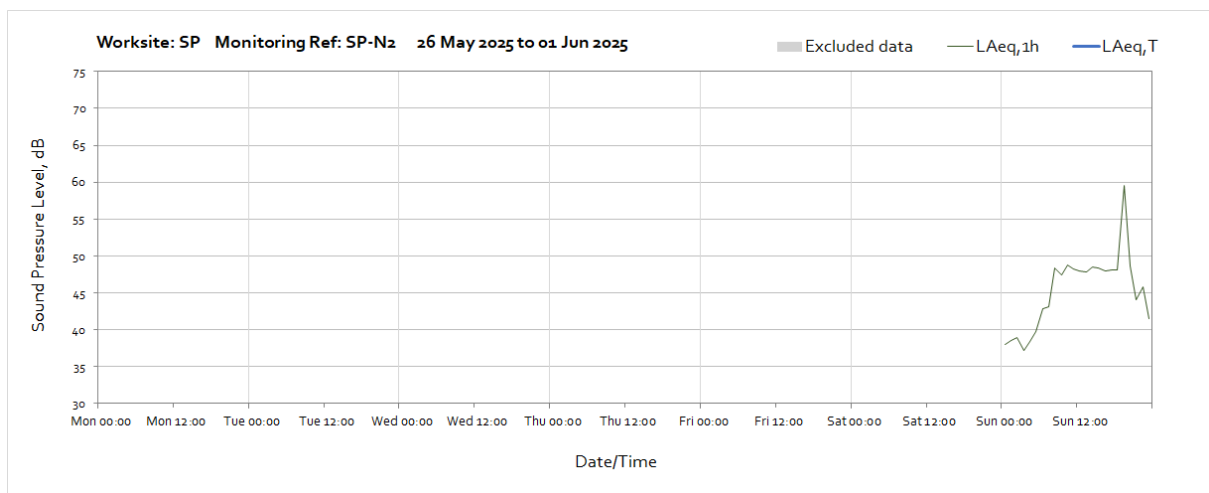
## Worksite: SP – Monitoring Ref: SP-N1



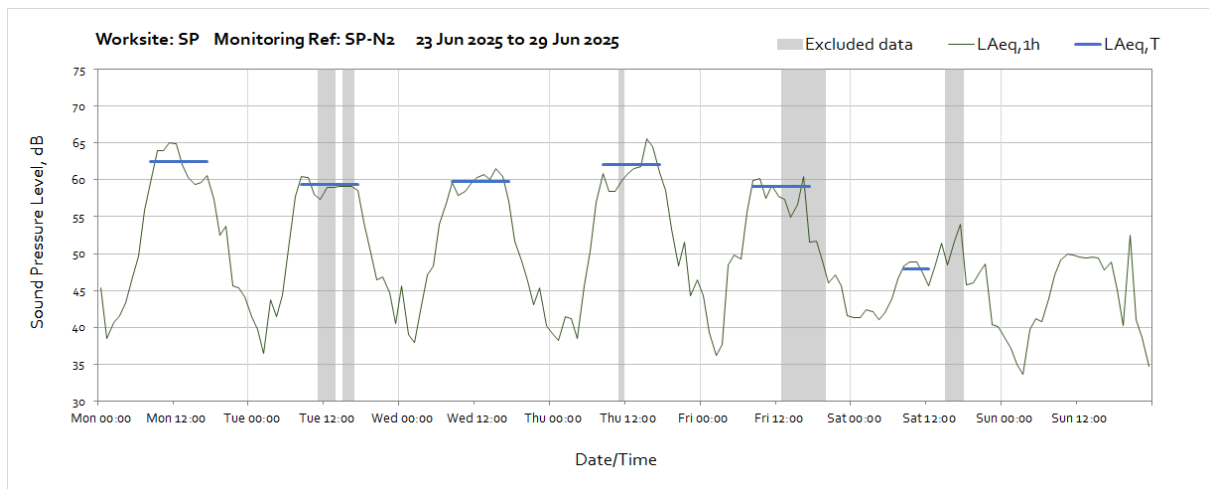
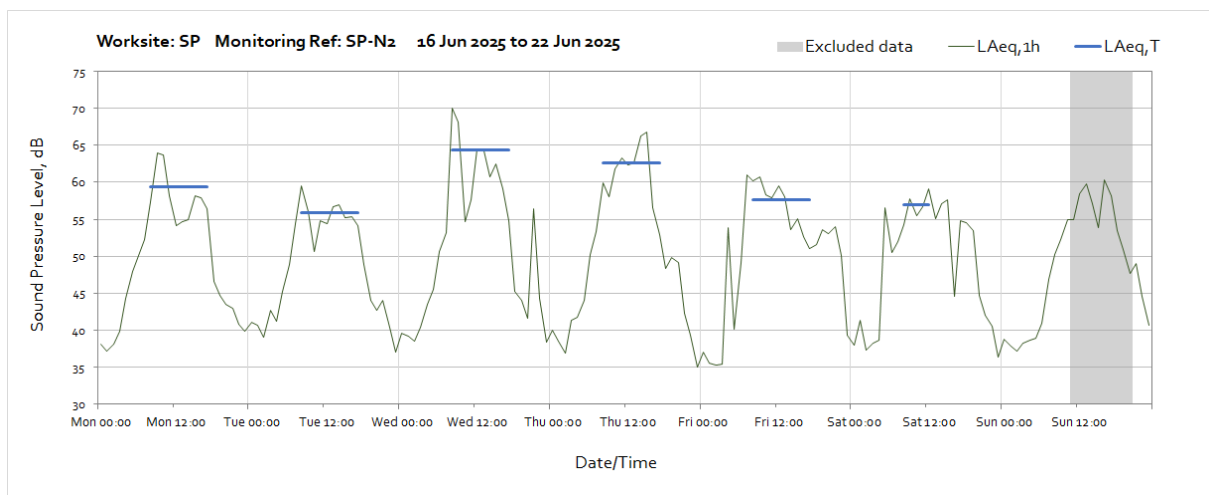
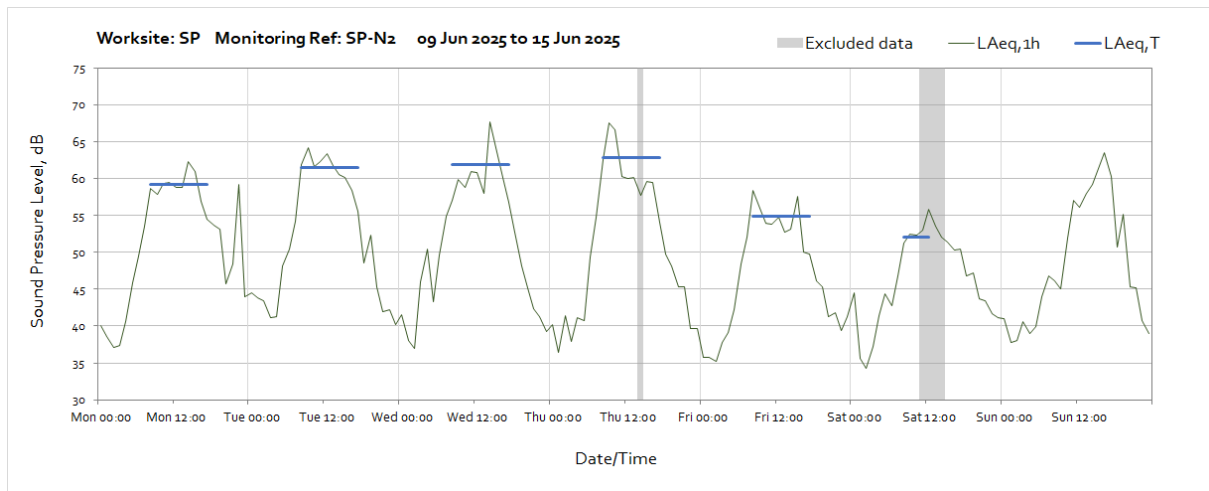


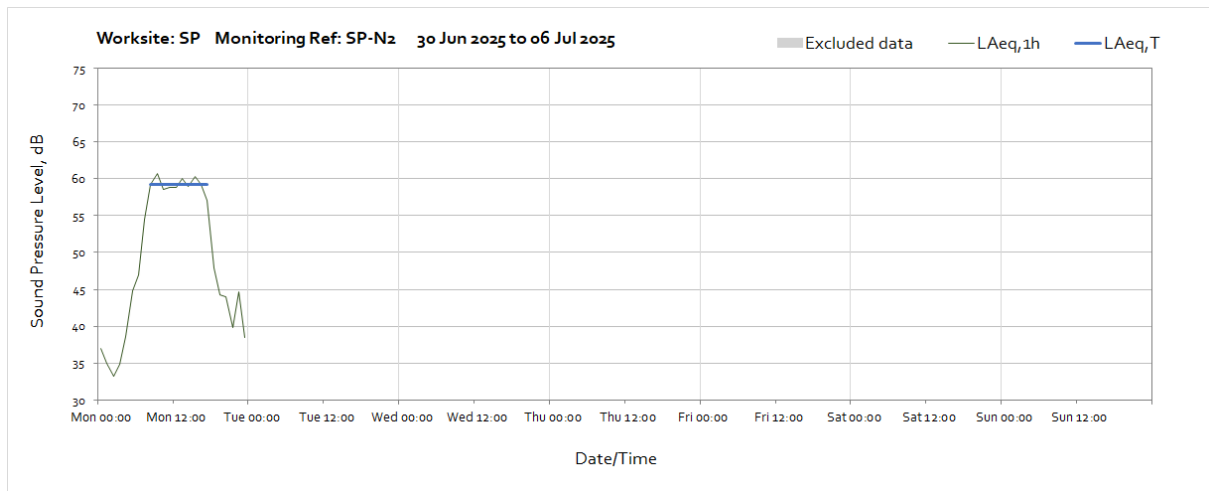


## Worksite: SP – Monitoring Ref: SP-N2

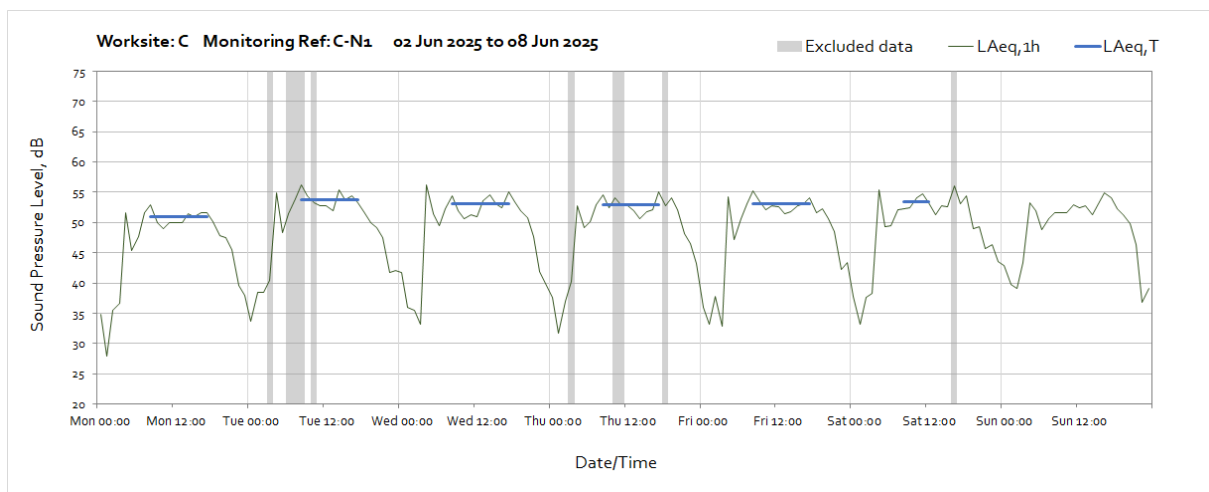
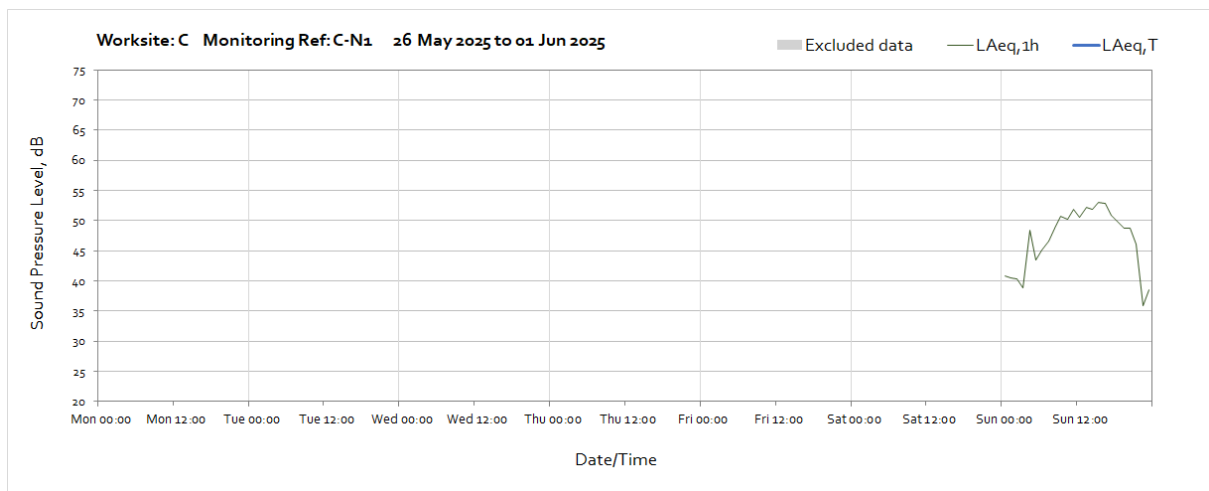


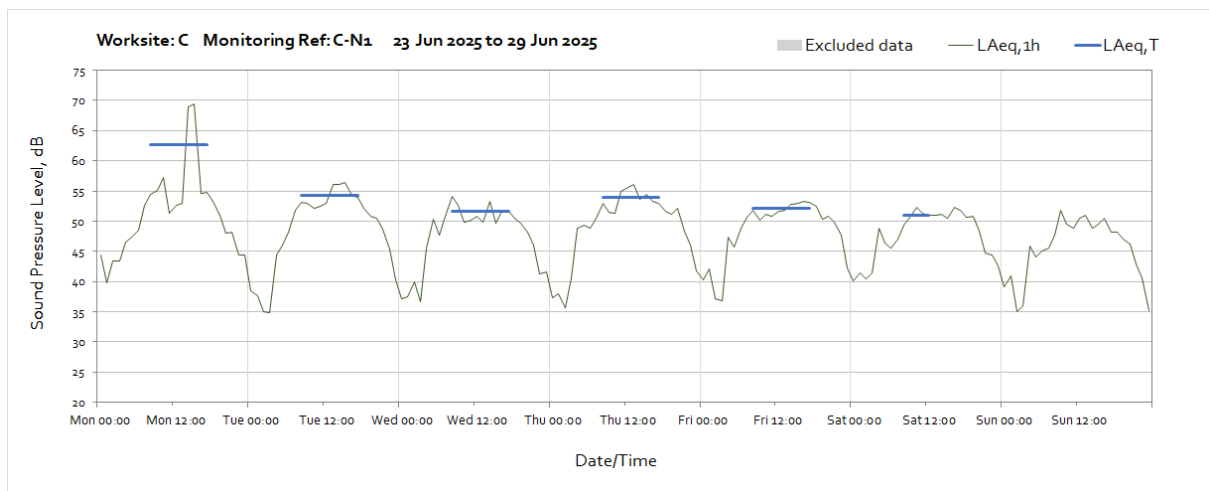
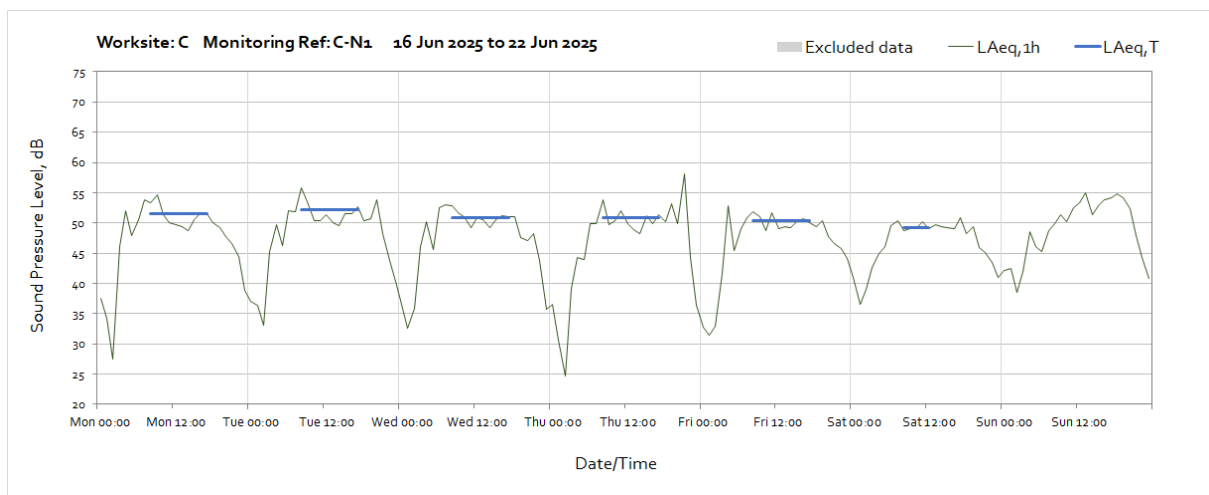
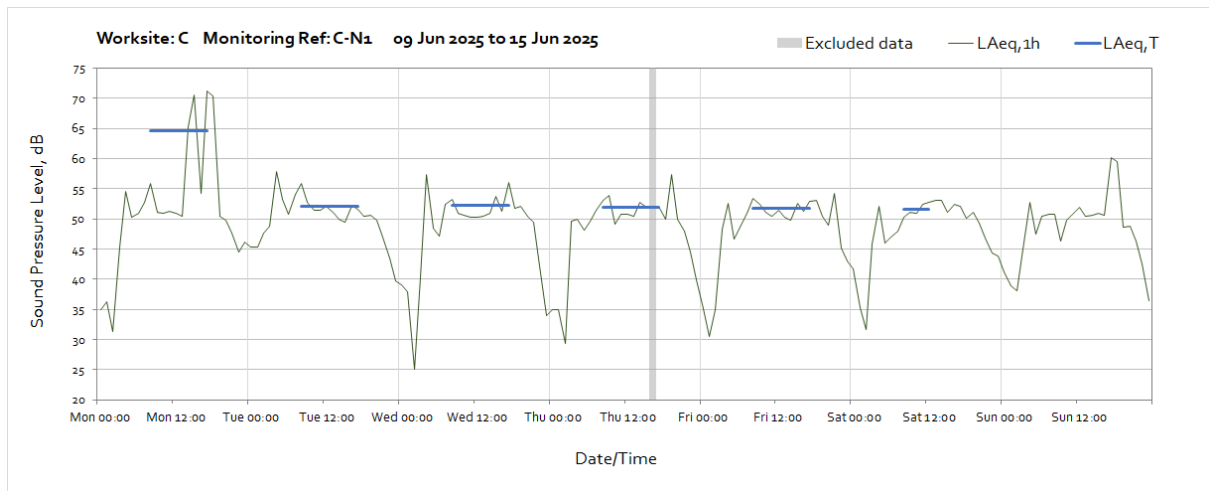


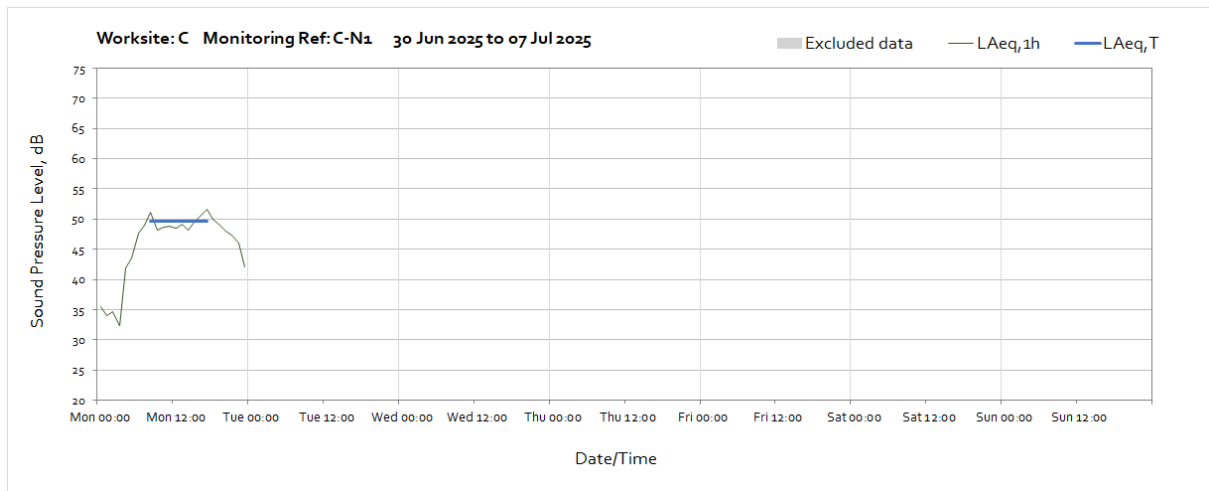




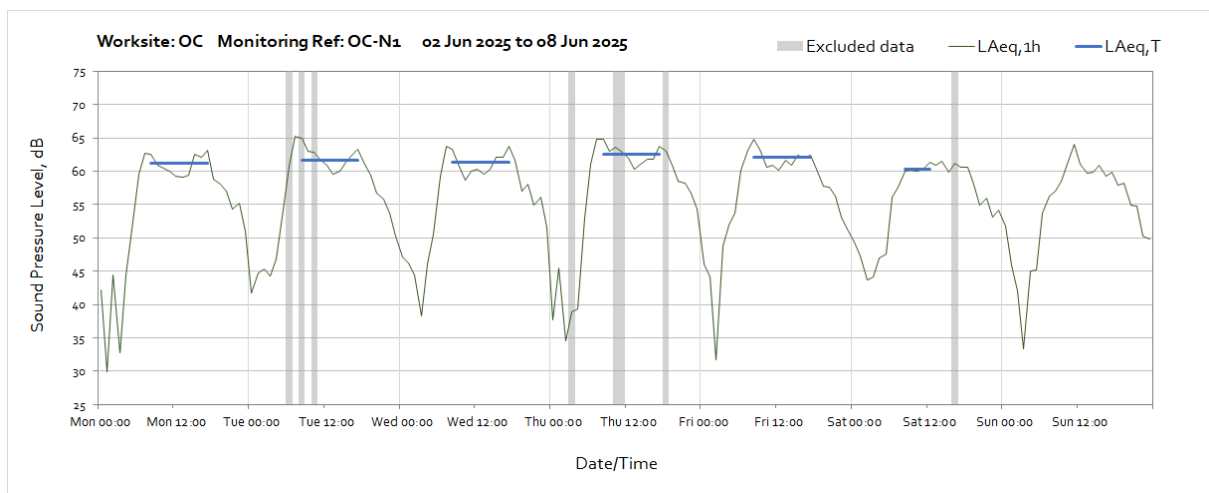
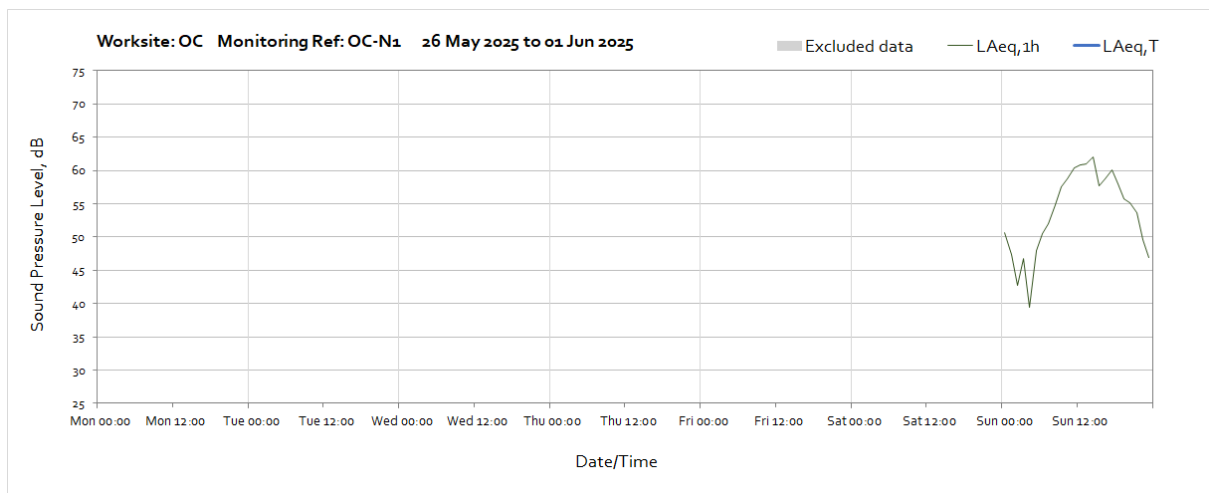
## Worksite: C – Monitoring Ref: C-N1

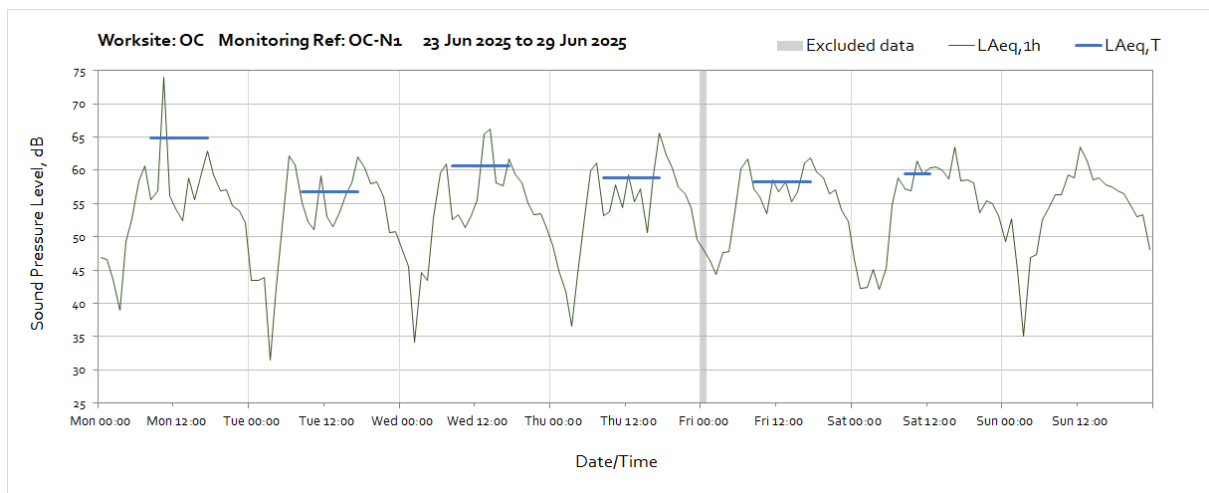
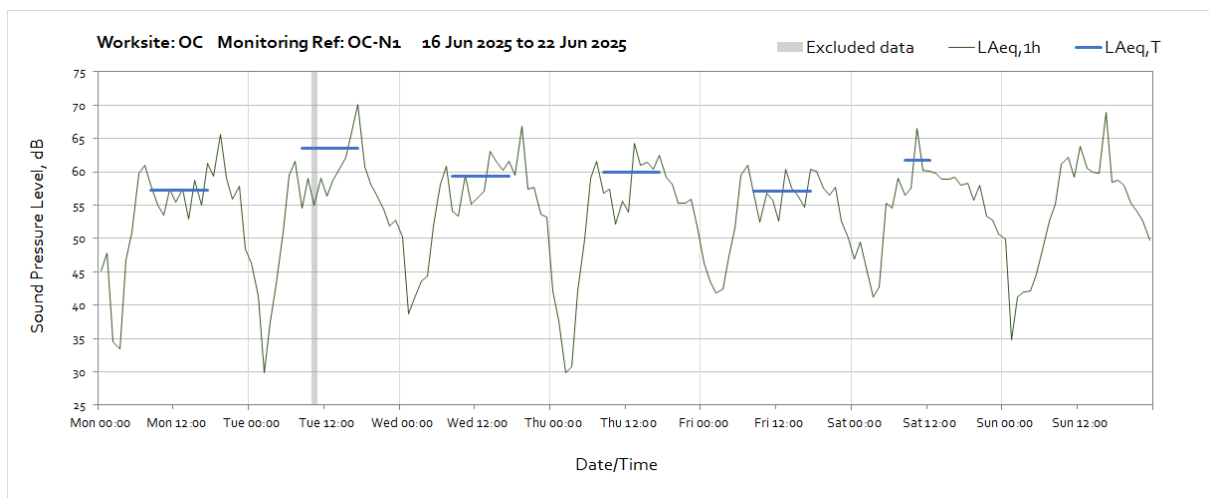
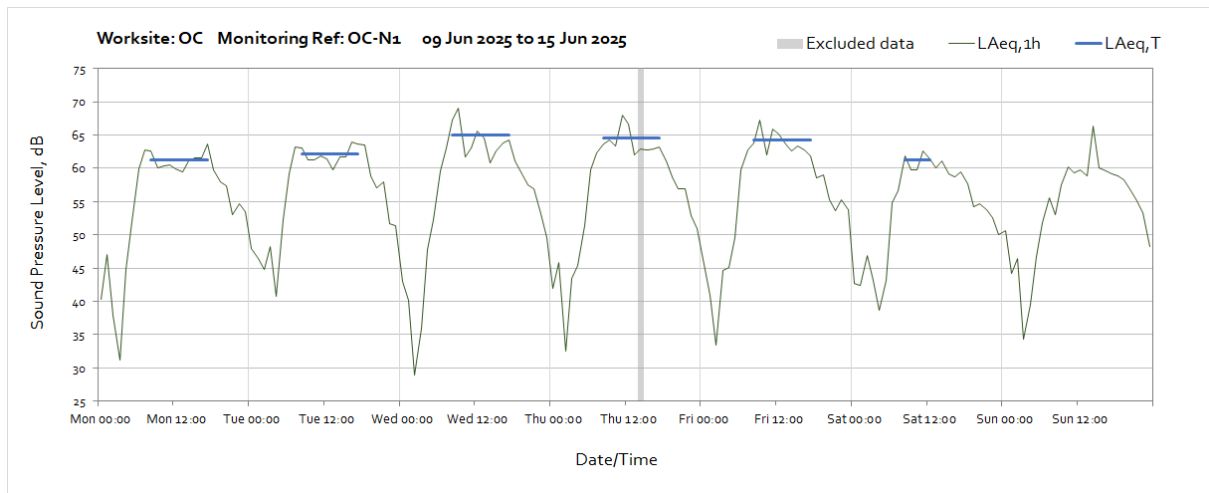


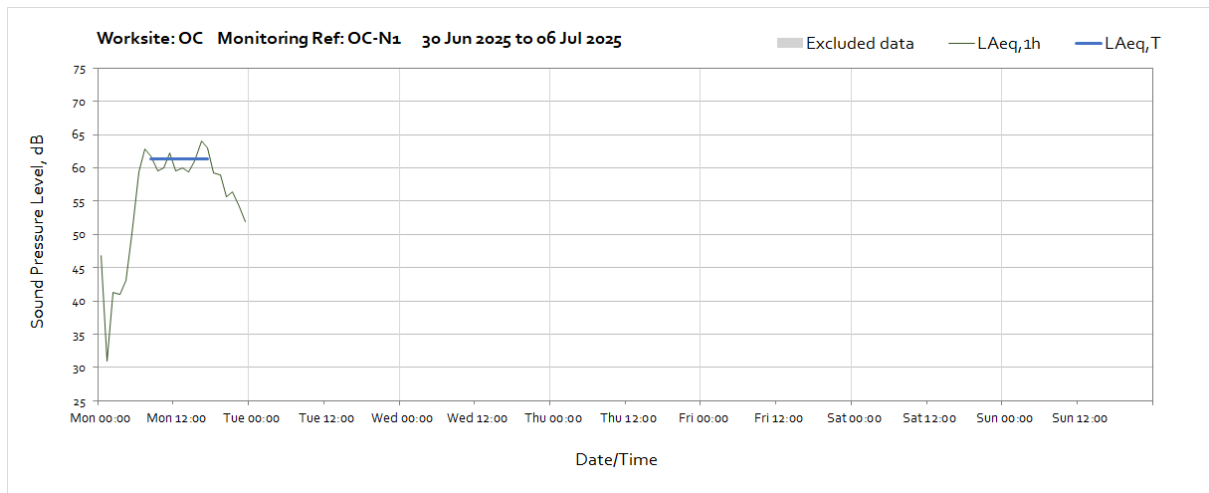




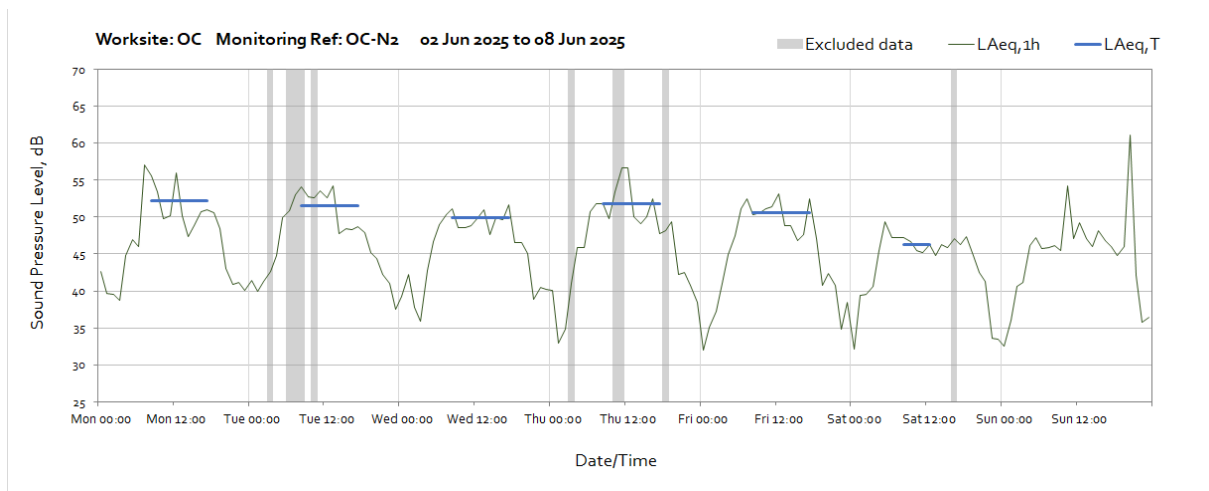
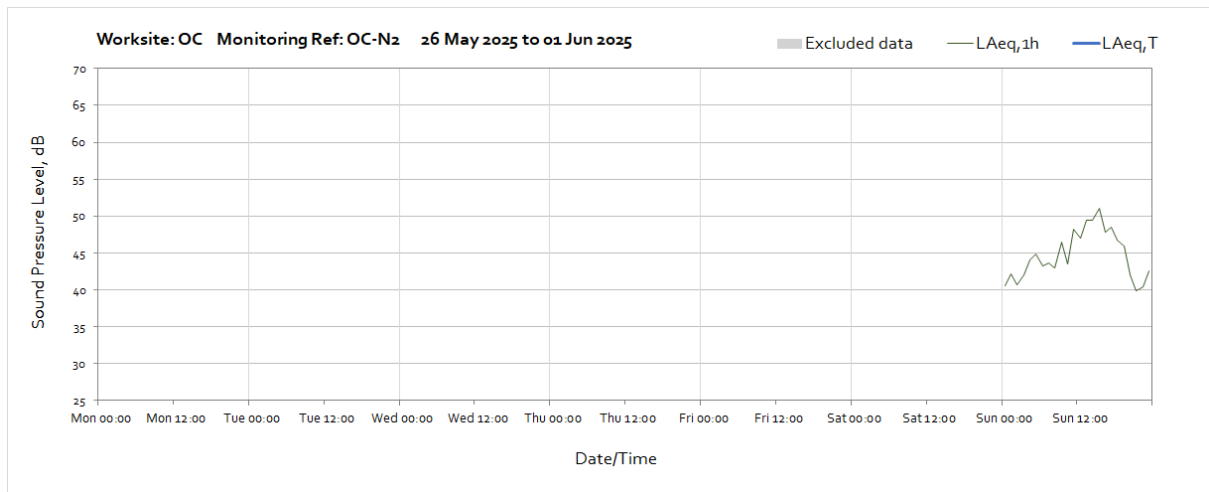
## Worksite: OC – Monitoring Ref: OC-N1

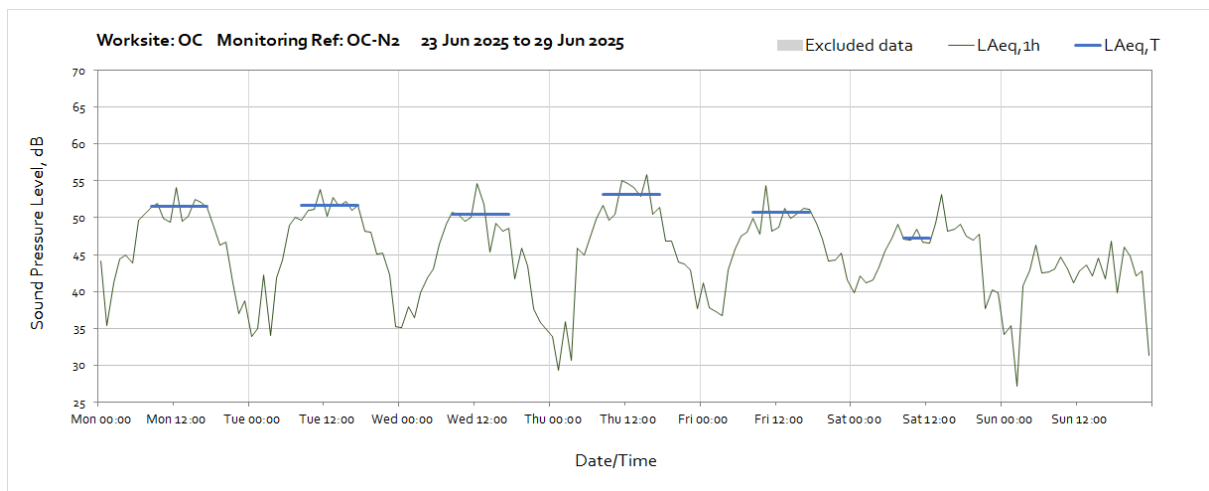
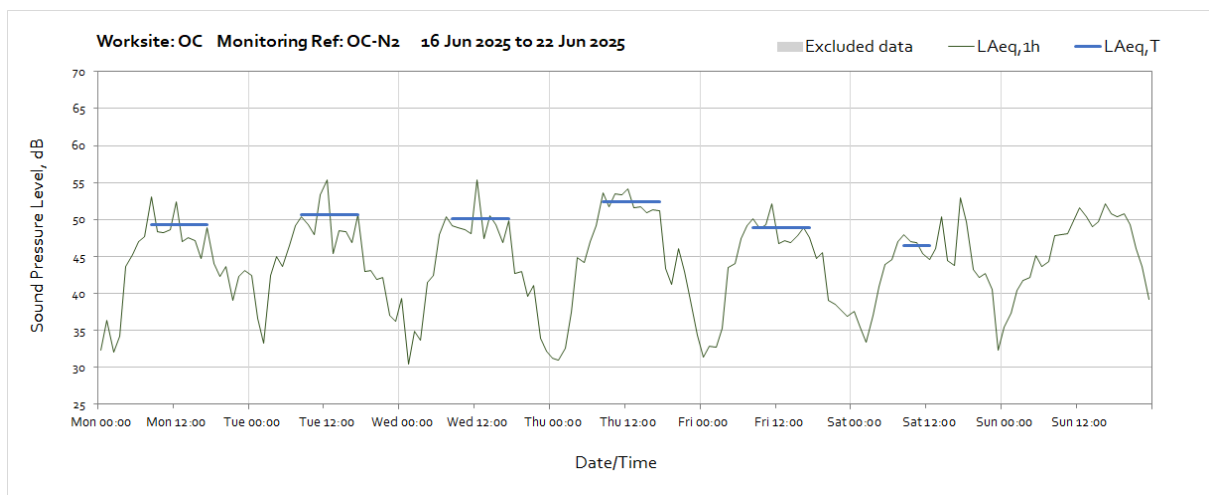
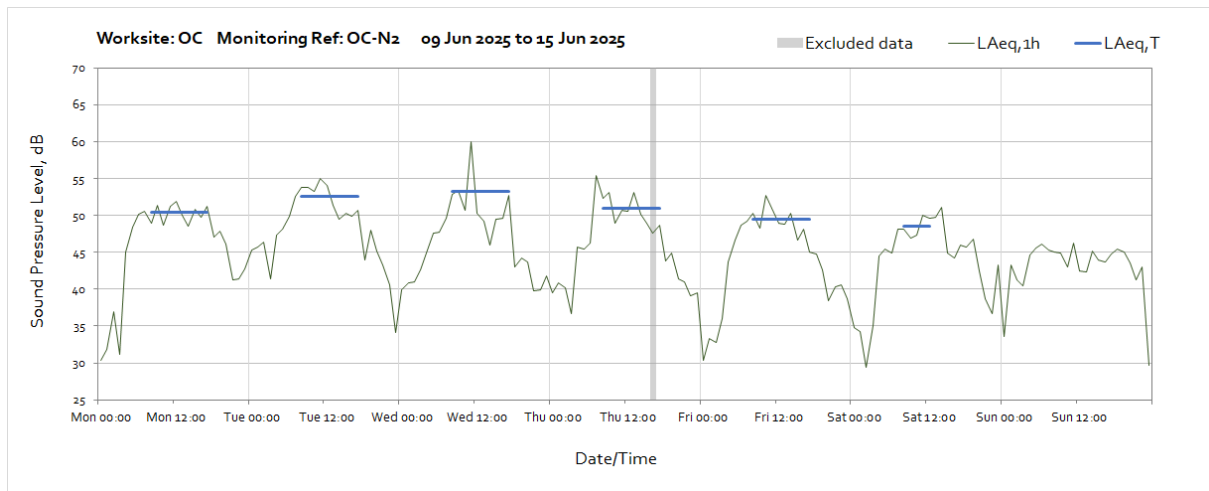


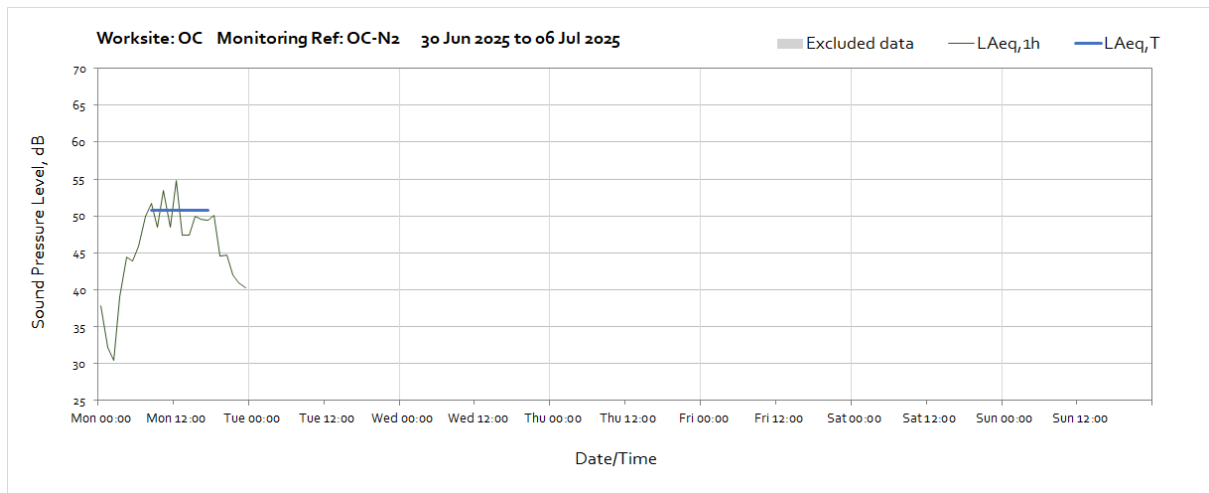




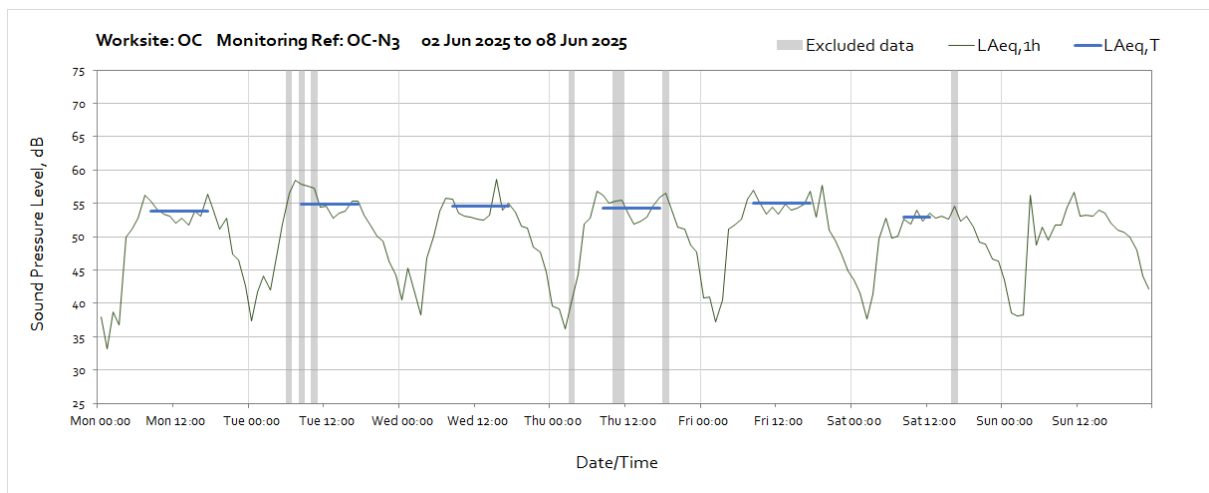
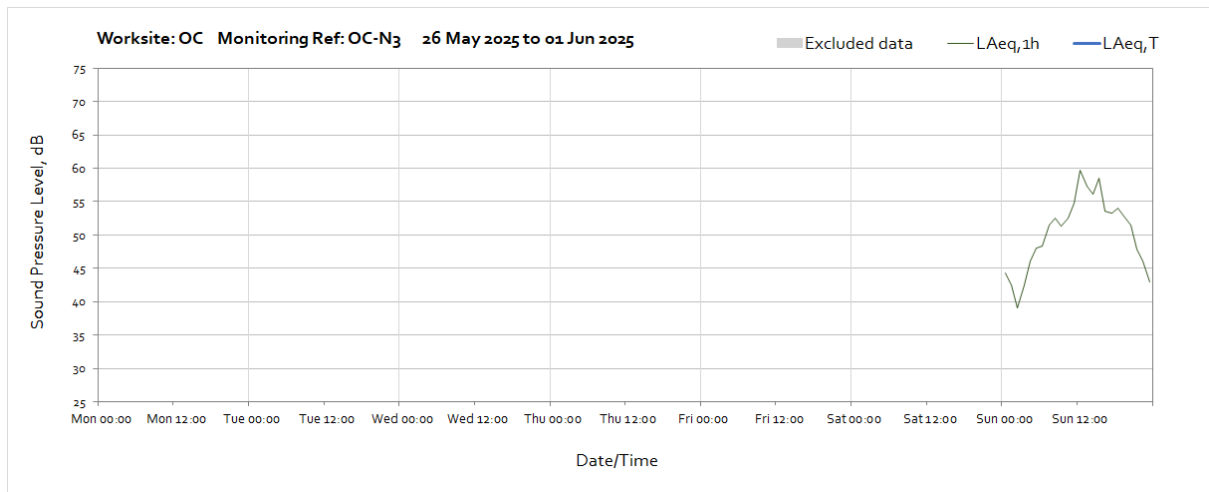
## Worksite: OC – Monitoring Ref: OC-N2



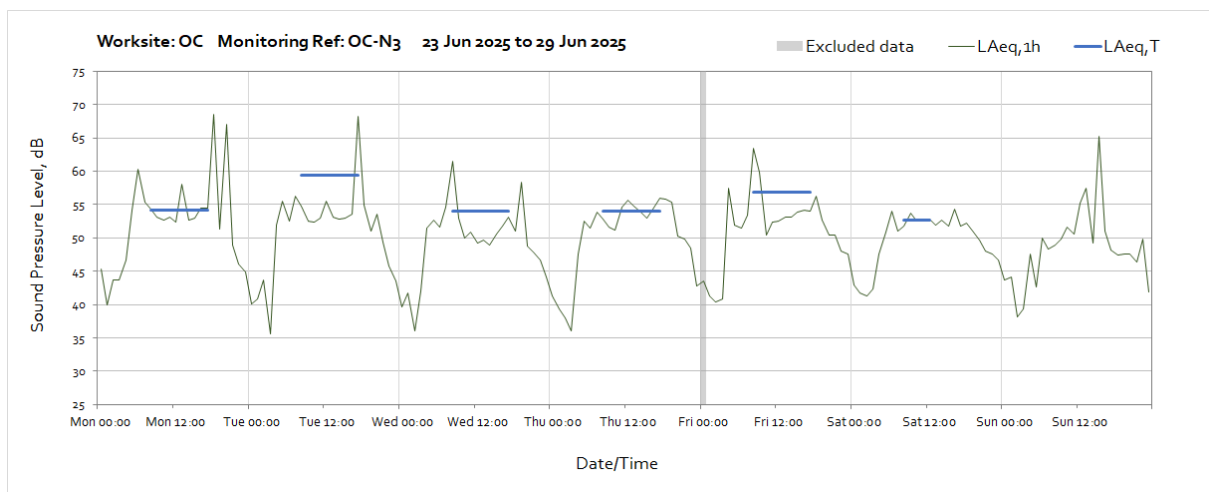
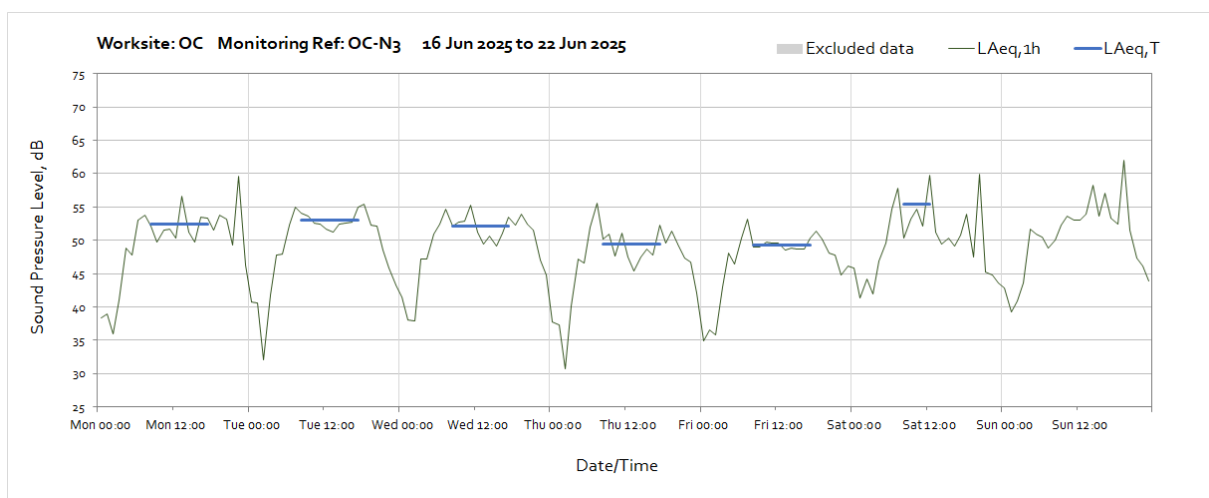
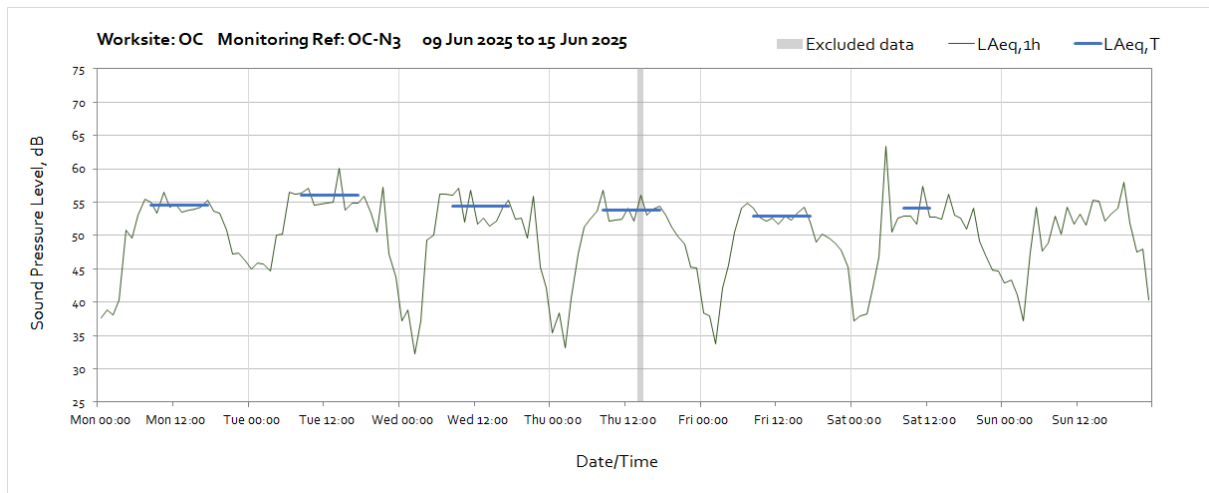


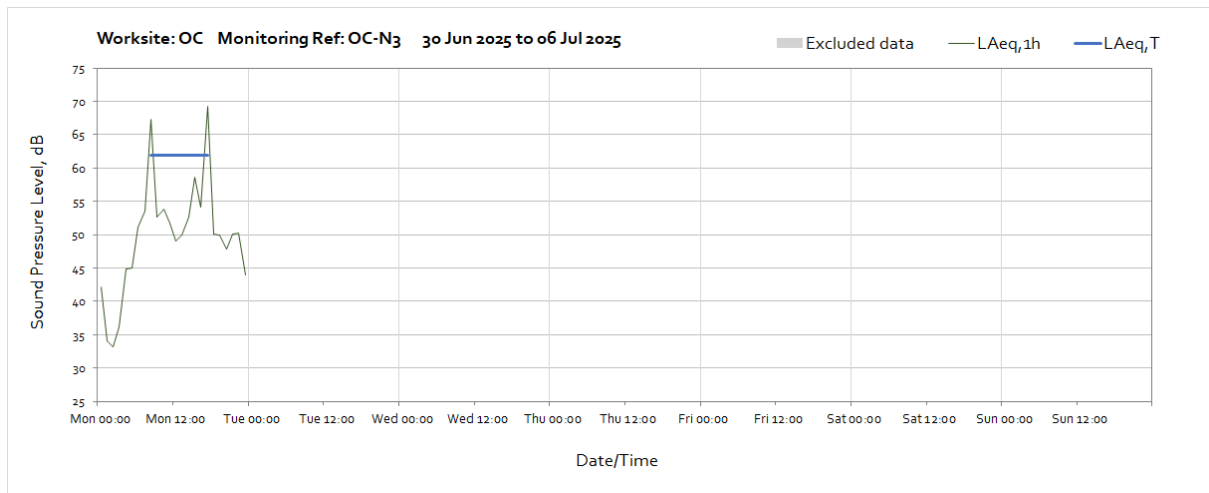


## Worksite: OC – Monitoring Ref: OC-N3

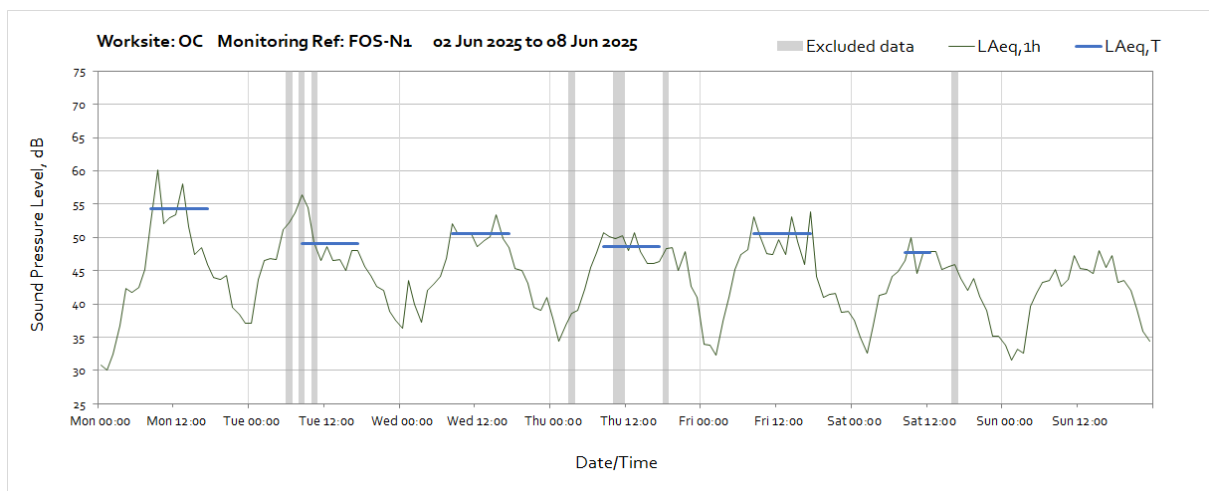
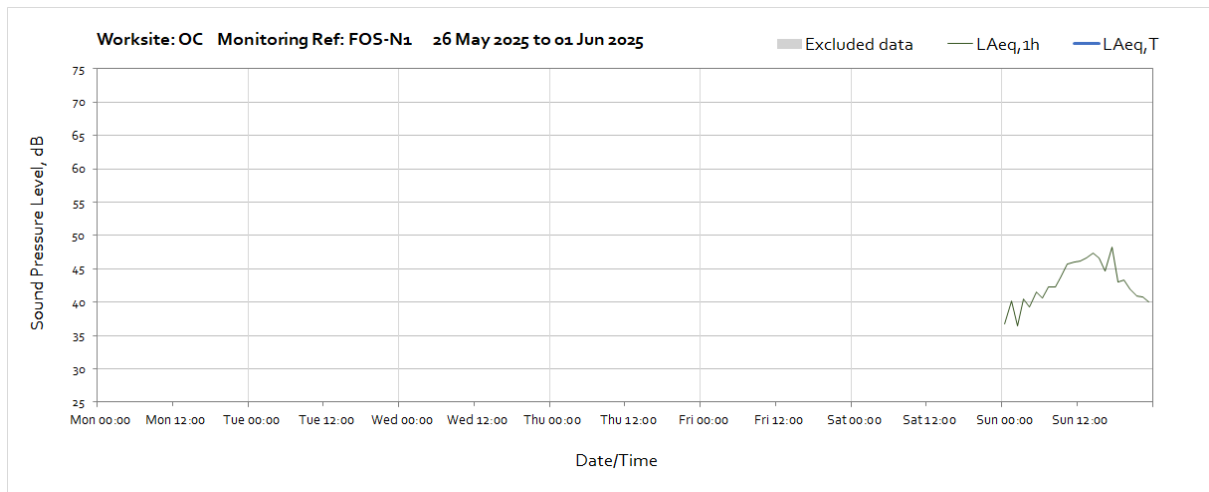


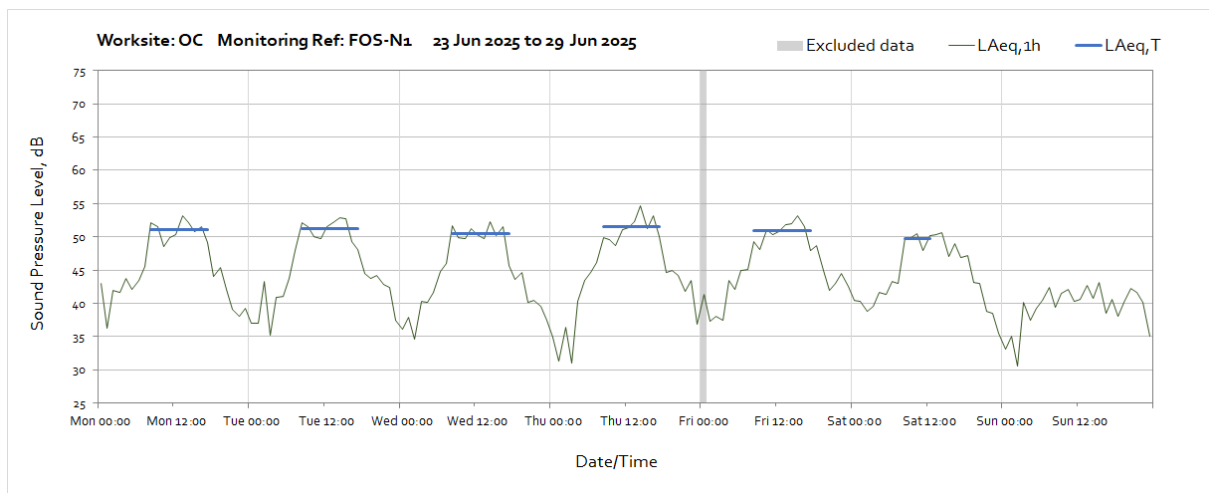
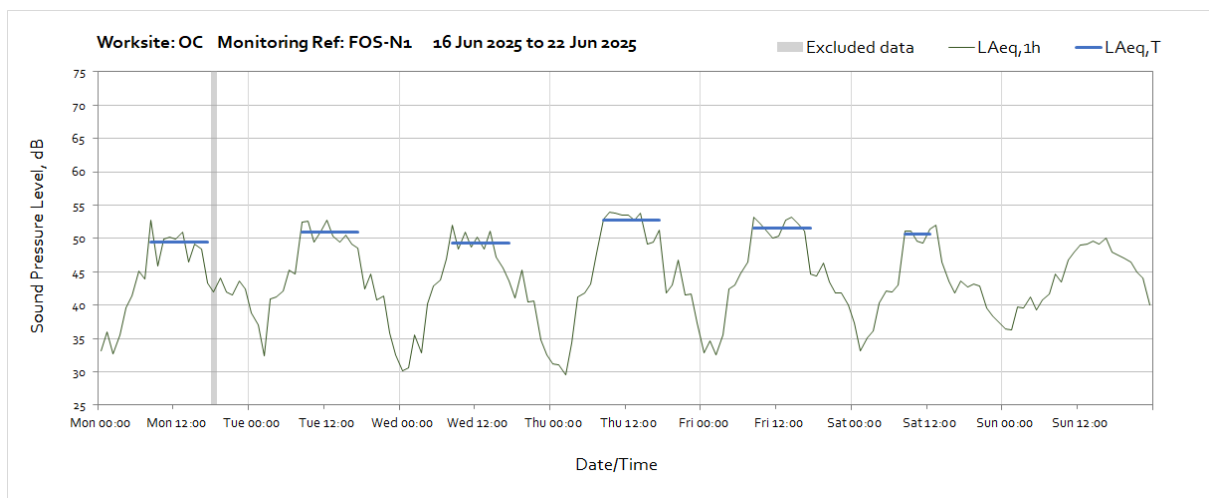
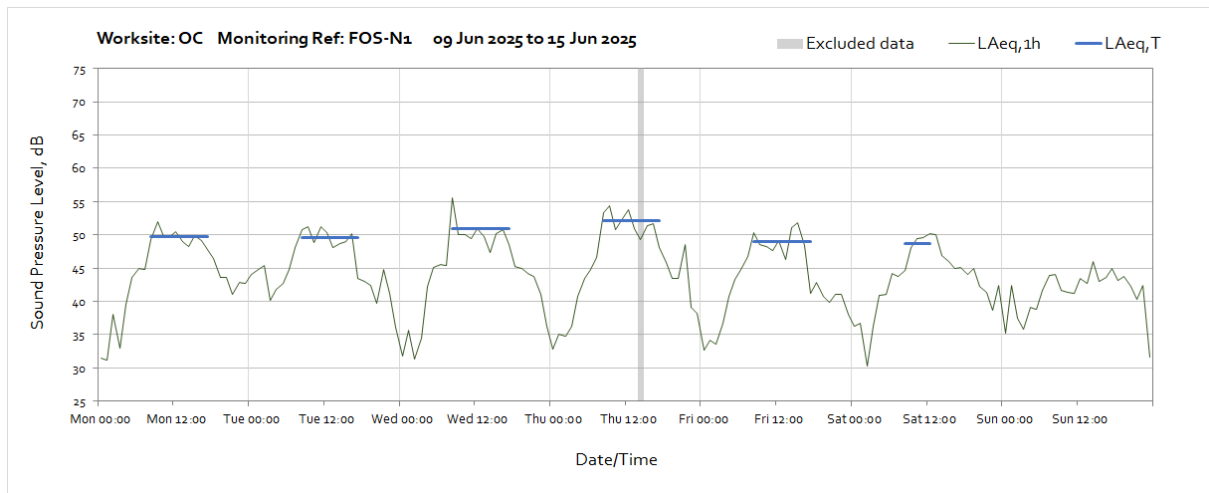


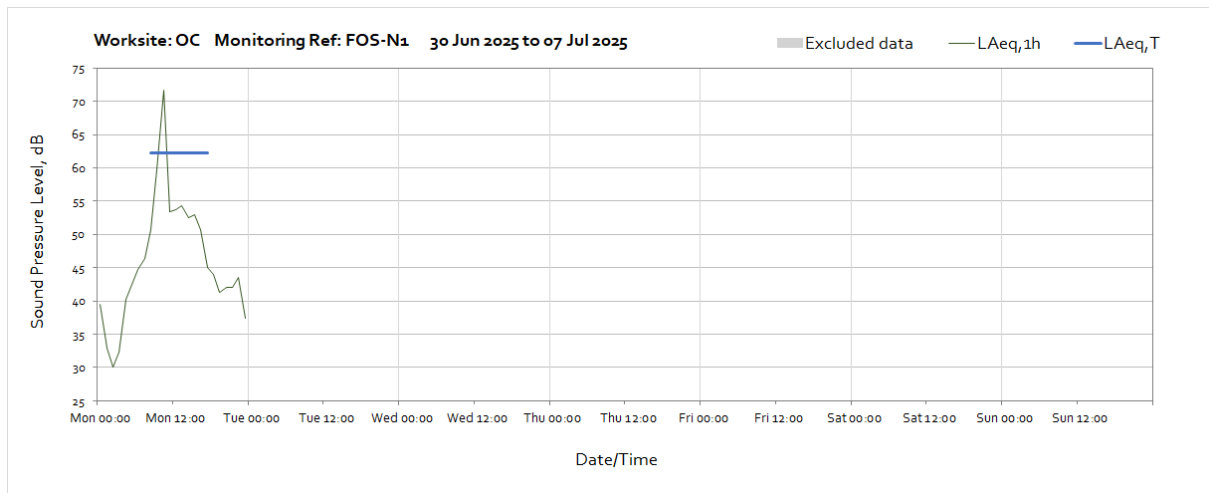




## Worksite: OC – Monitoring Ref: FOS-N1



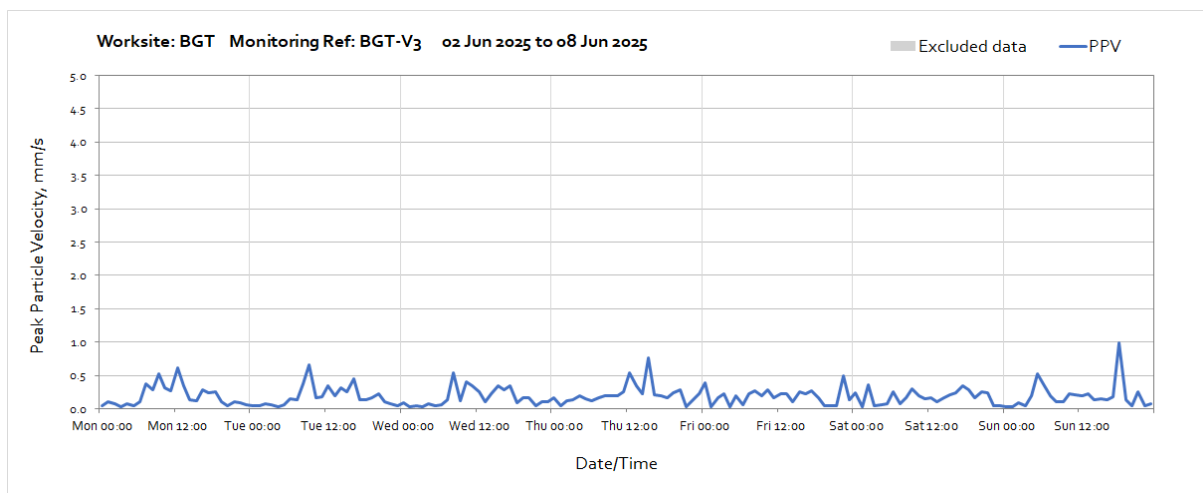
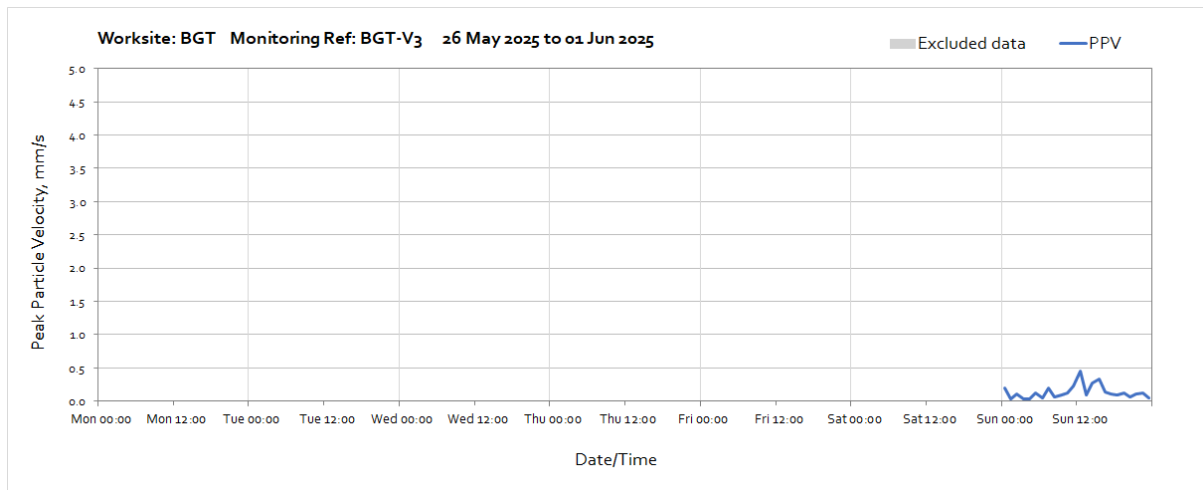


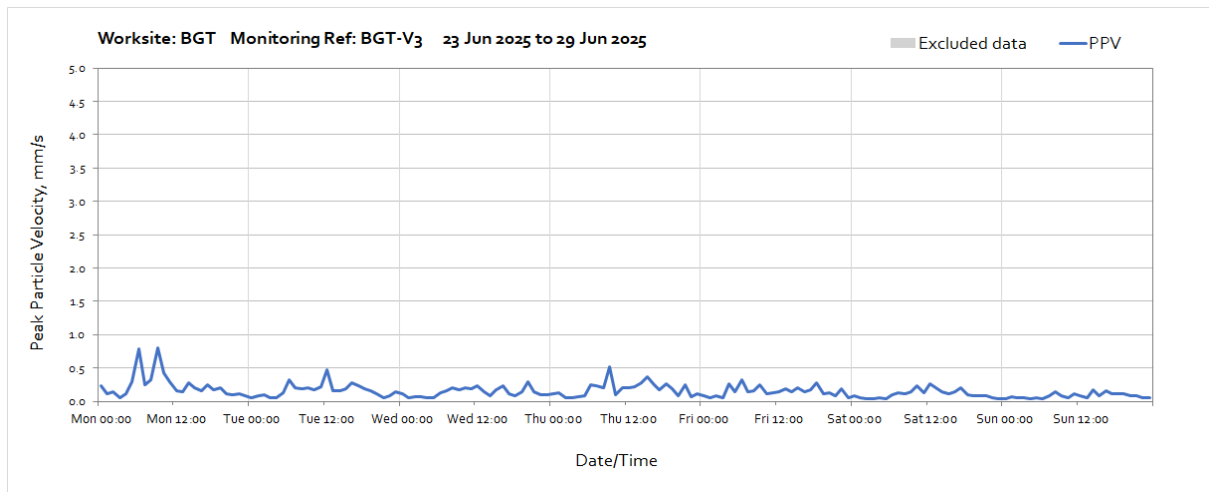
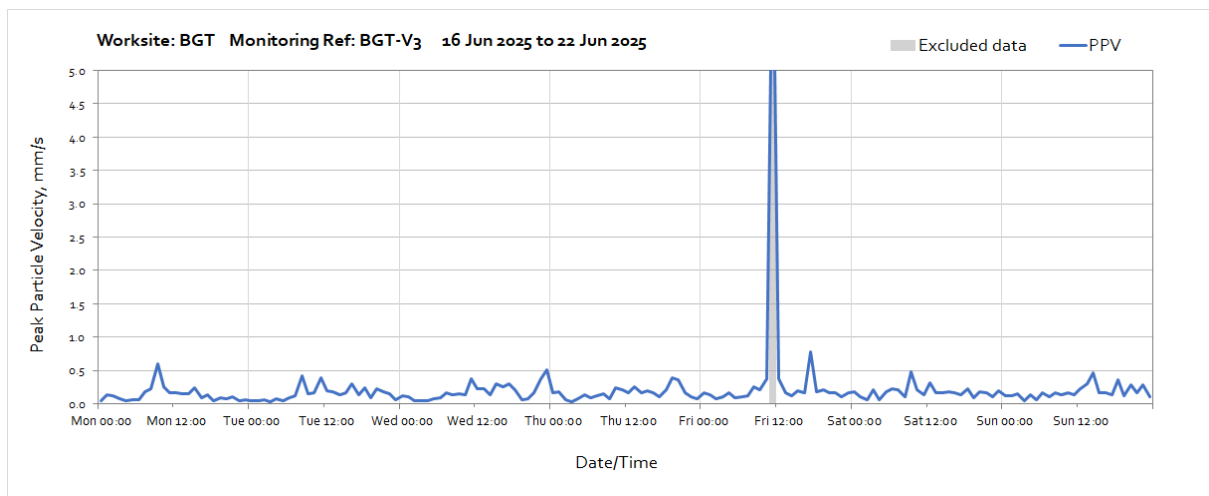
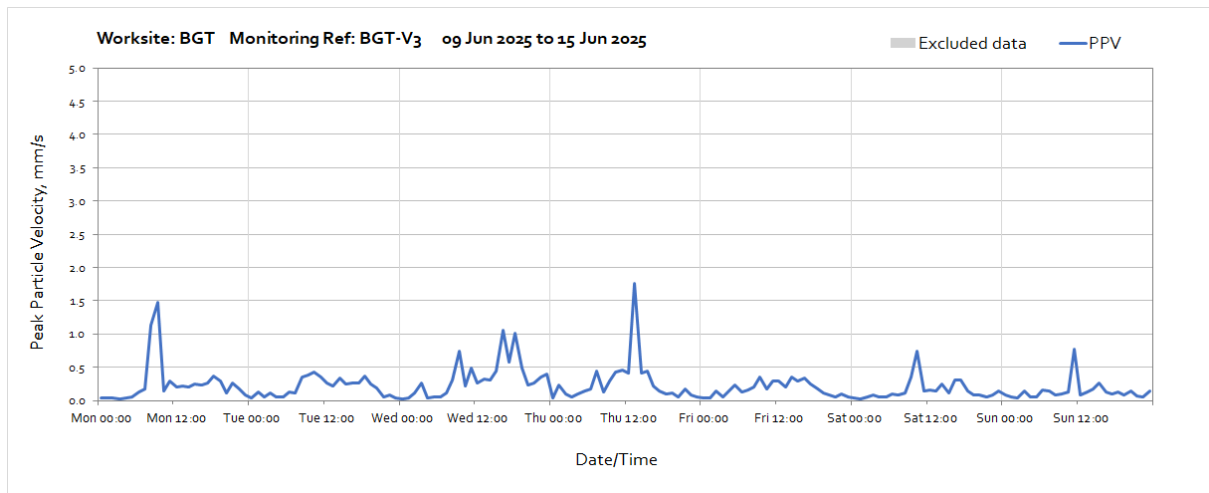


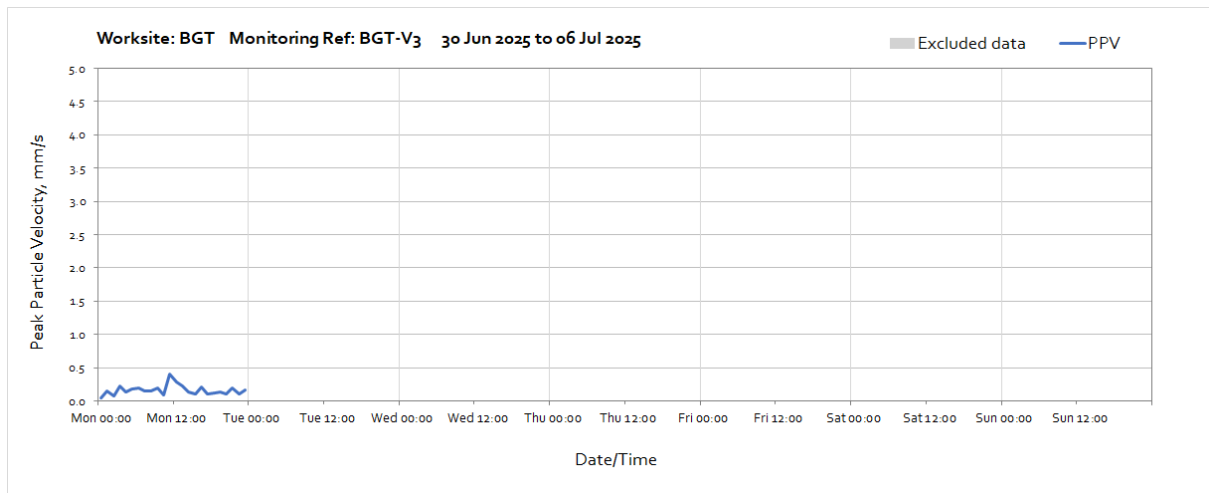
## Vibration

The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the highest PPV of the three orthogonal axes x, y and z. Periods where PPV values have been affected by local interference with the vibration monitor or only measured for part of the period, which are not representative of HS2 construction works, have been greyed out and excluded when calculating values in Table 4 of the main report.

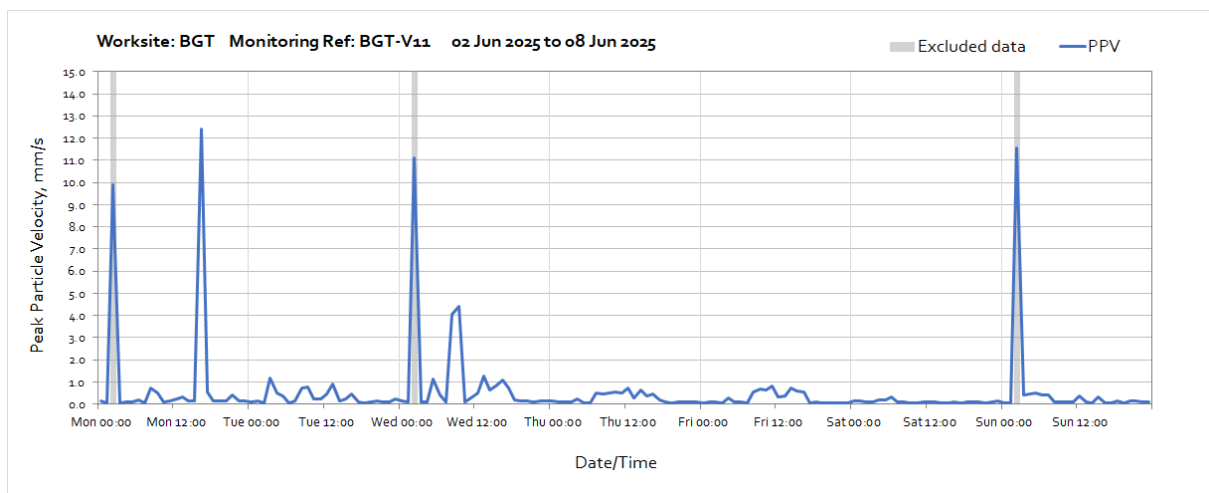
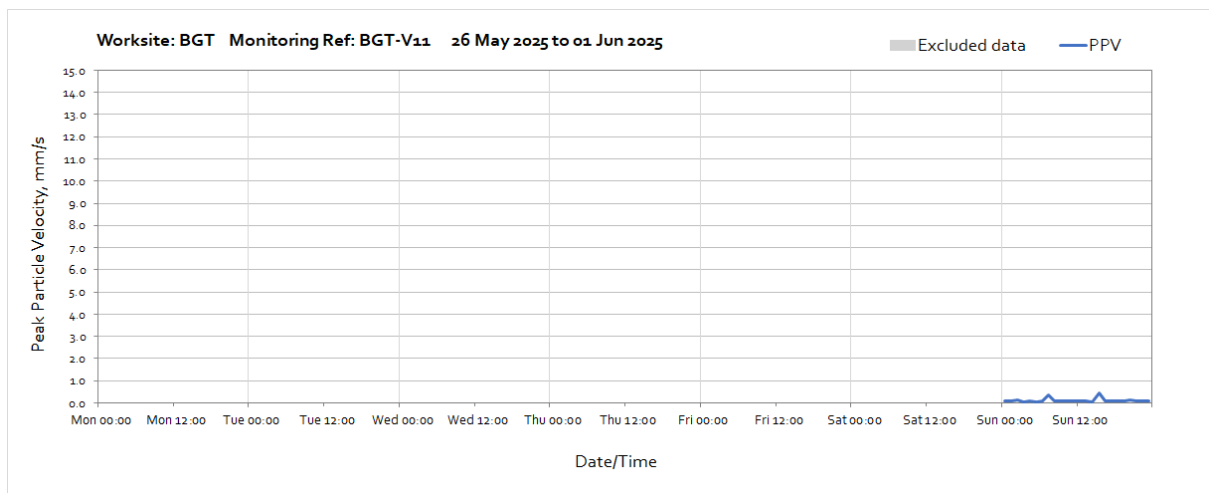
### Worksite: BGT – Monitoring Ref: BGT-V3

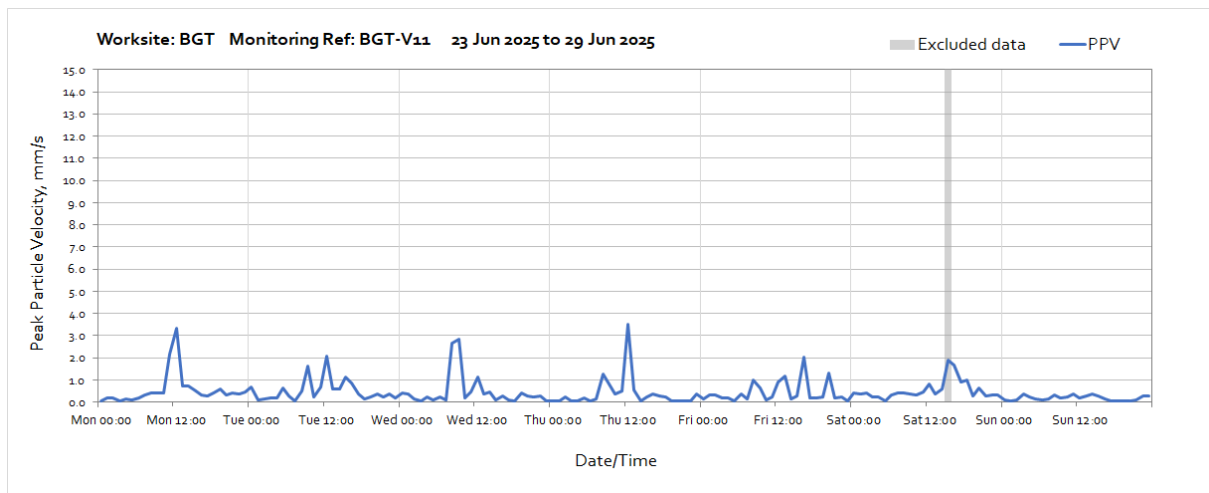
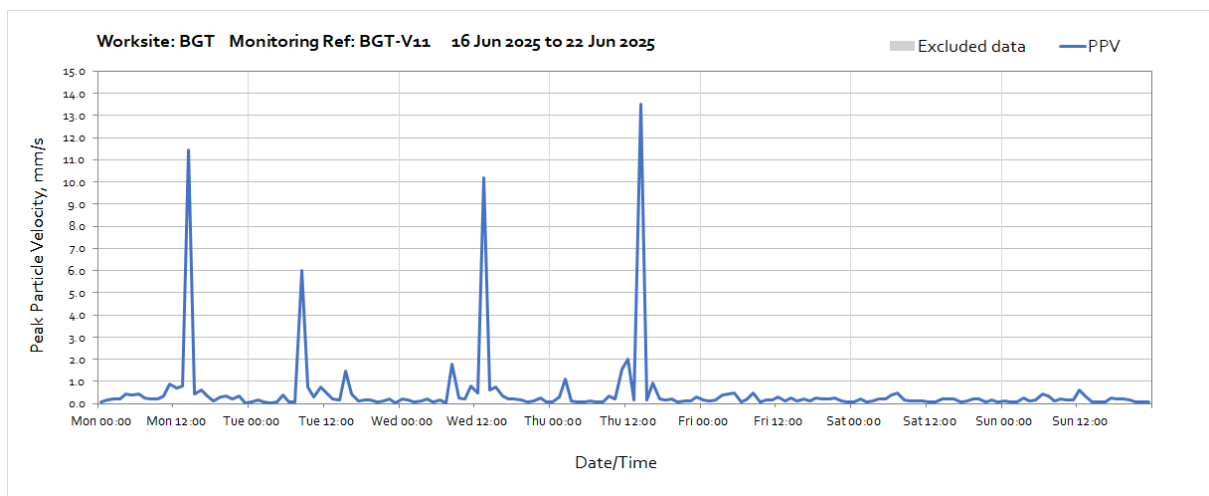
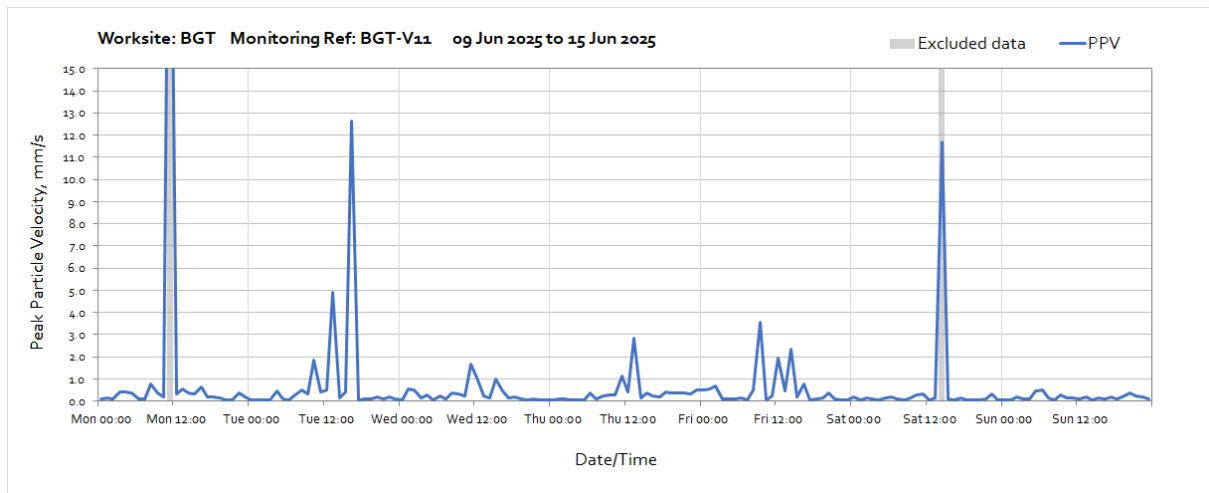




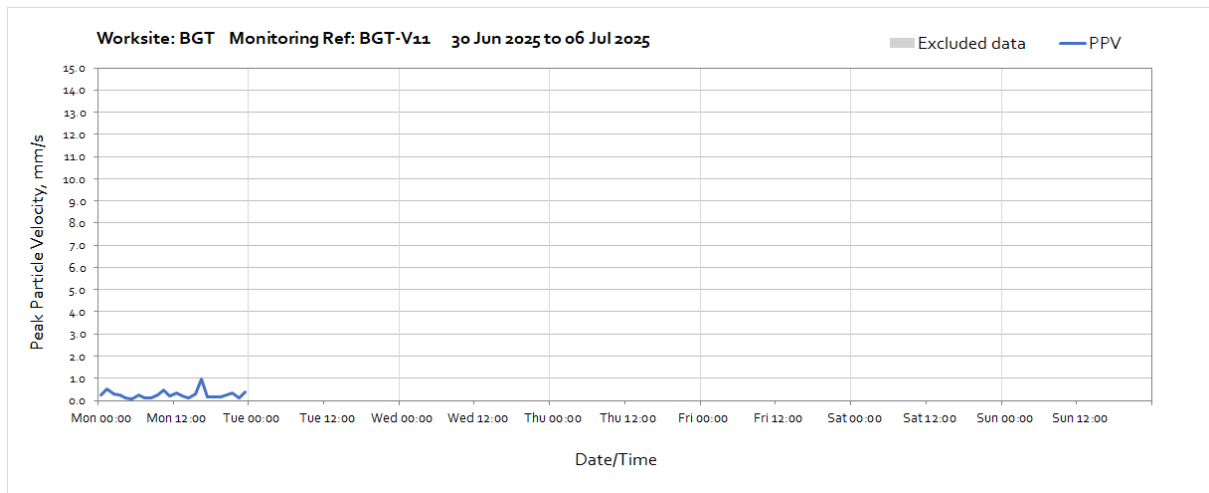


## Worksite: BGT – Monitoring Ref: BGT-V11

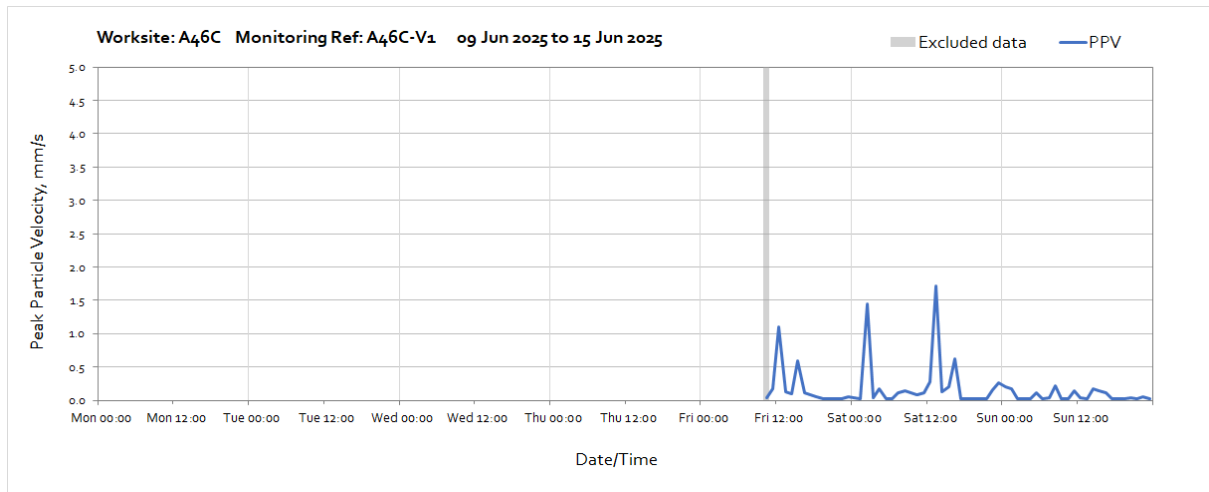




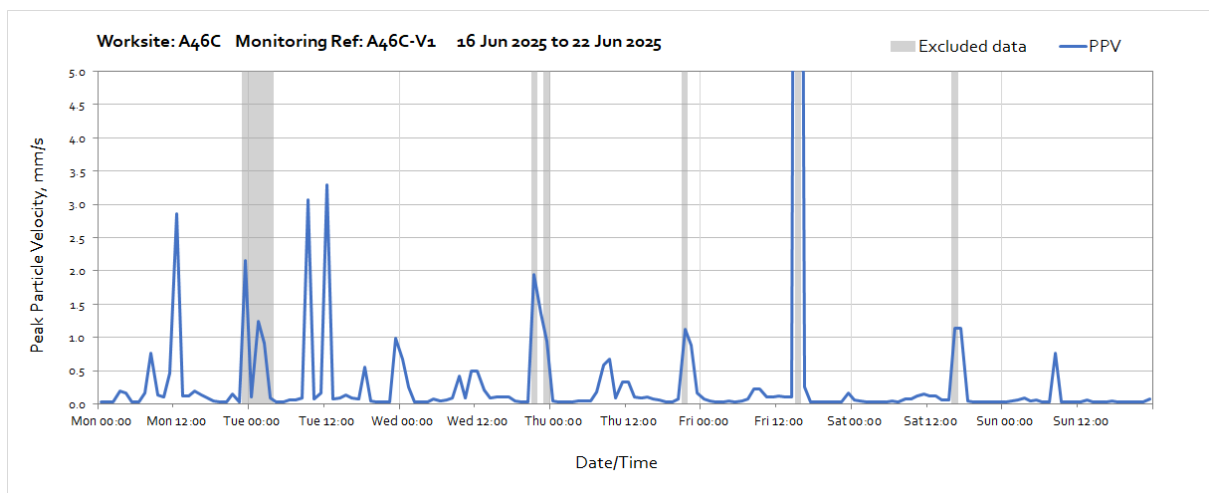




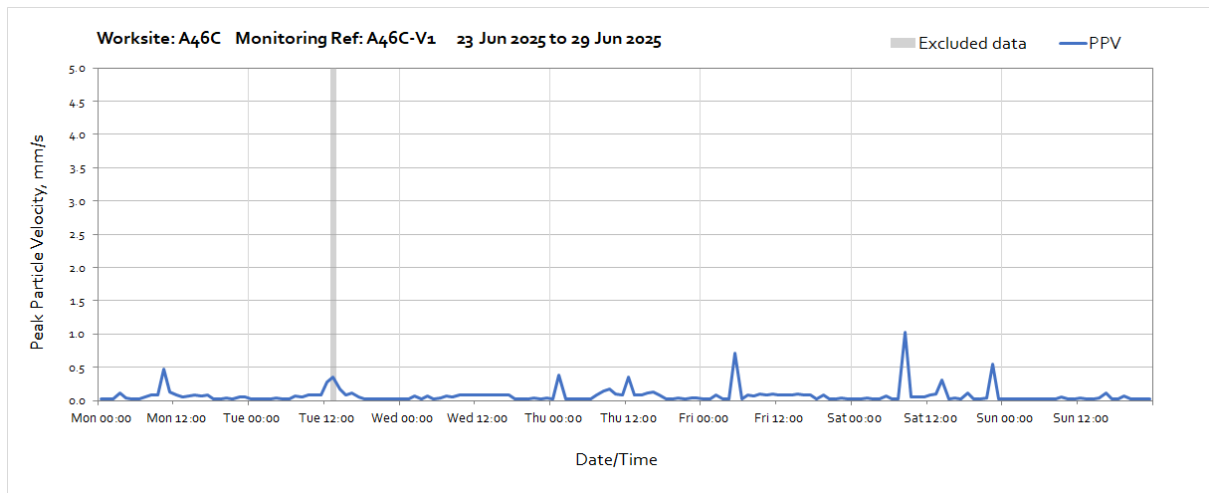
## Worksite: A46C – Monitoring Ref: A46C-V1



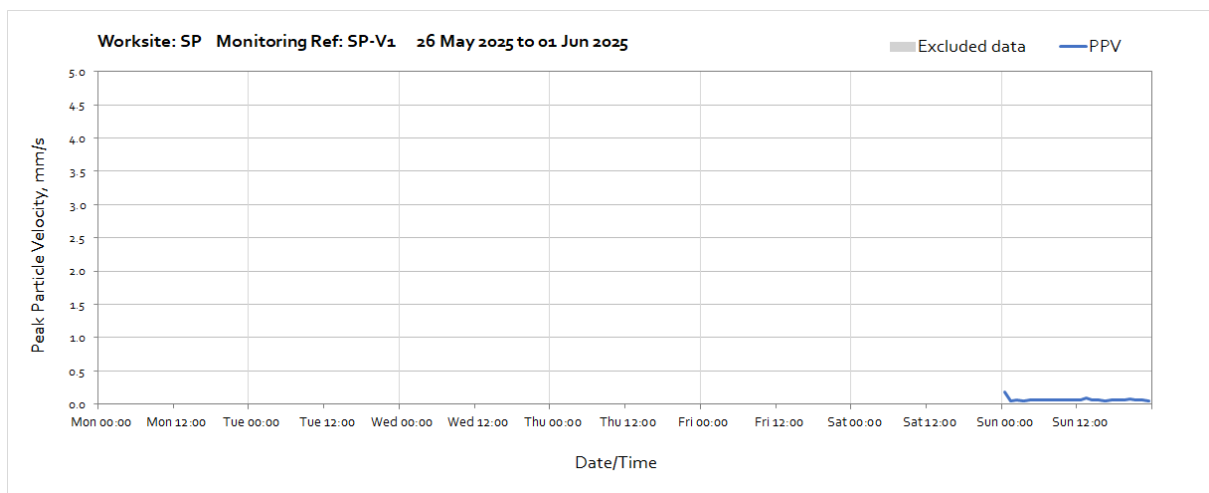
Note: Missing data from the start of the month until 10:00 on Friday 13<sup>th</sup> June was due to an on-going error with the monitoring station. The monitoring station has been replaced with view of reducing further loss of data in the future.

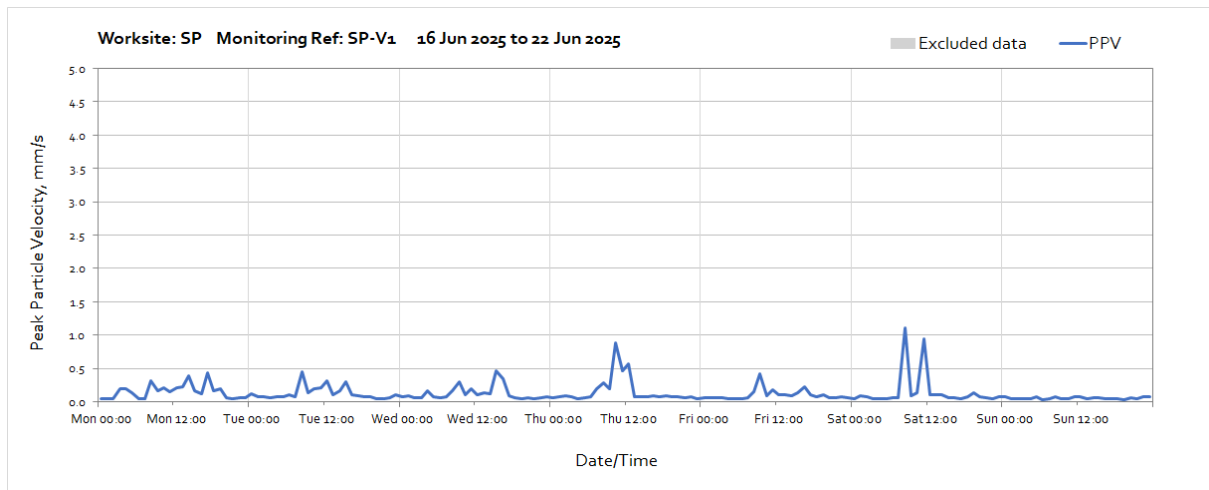
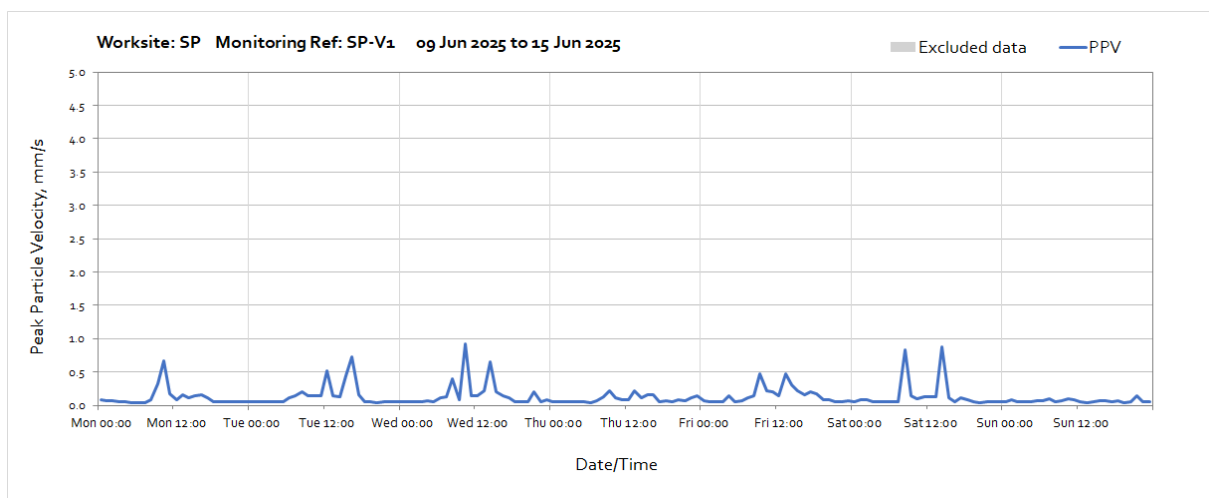
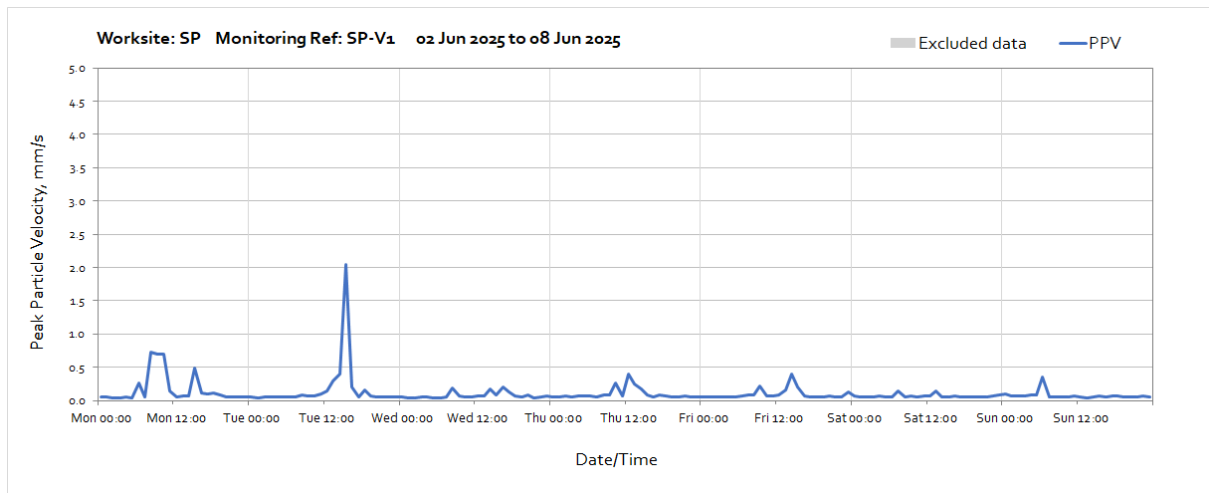


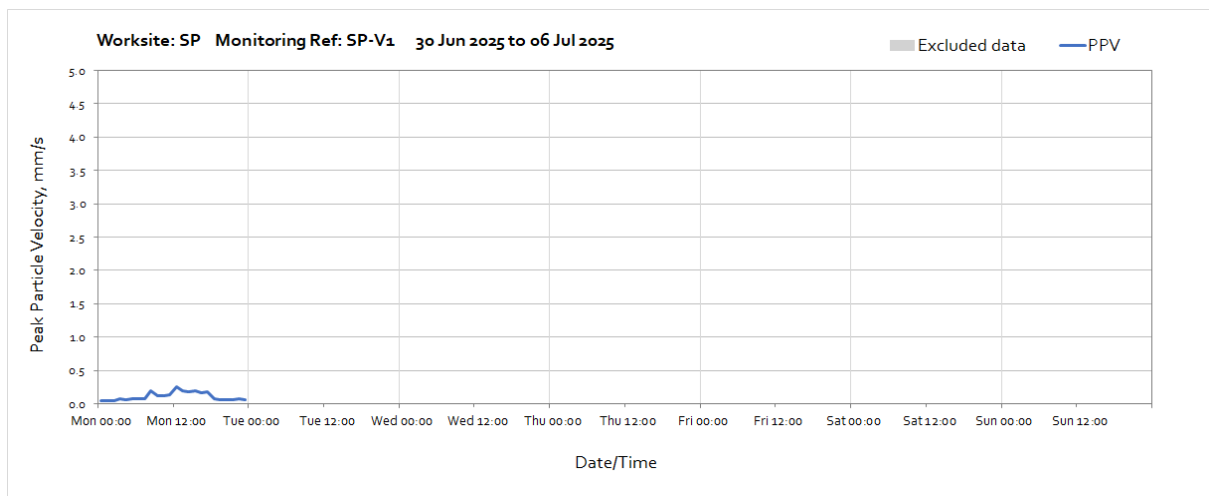
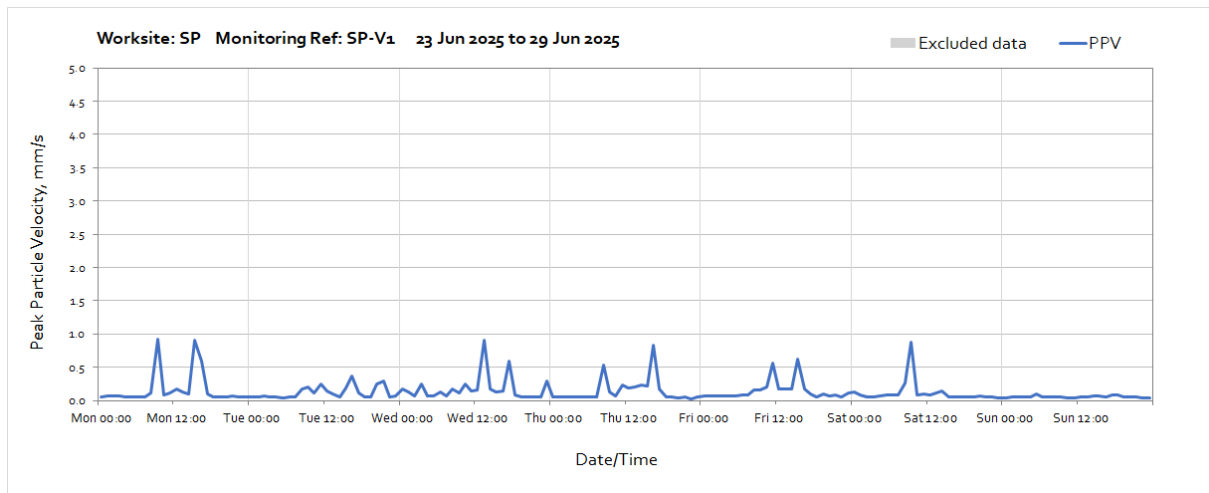
OFFICIAL



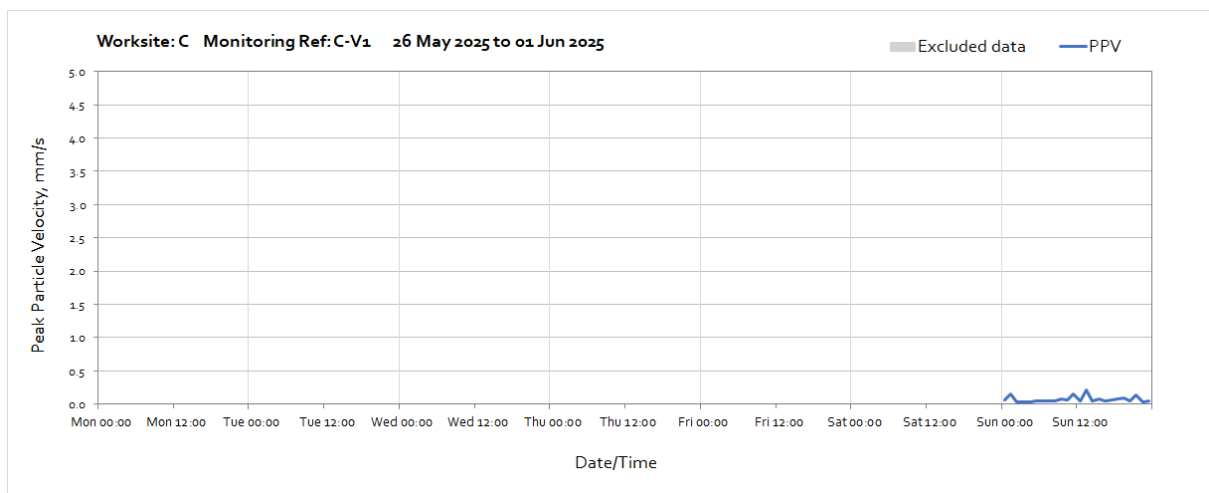
## Worksite: SP – Monitoring Ref: SP-V1

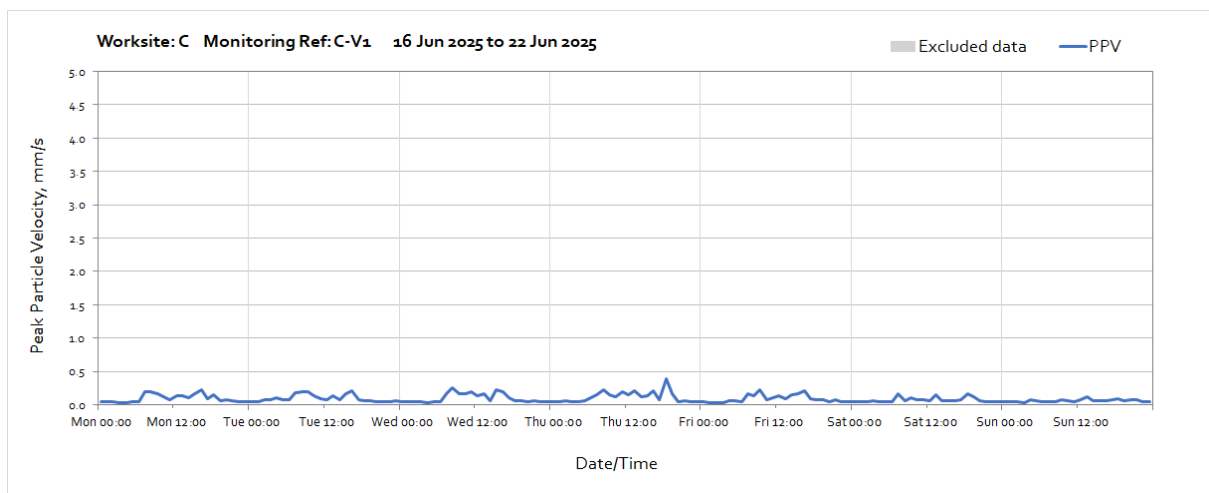
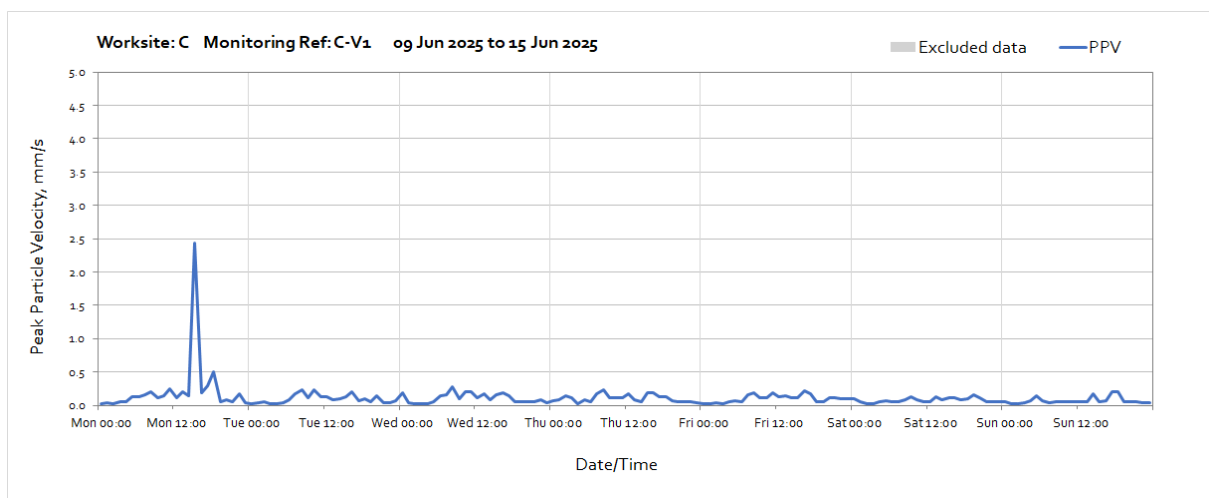
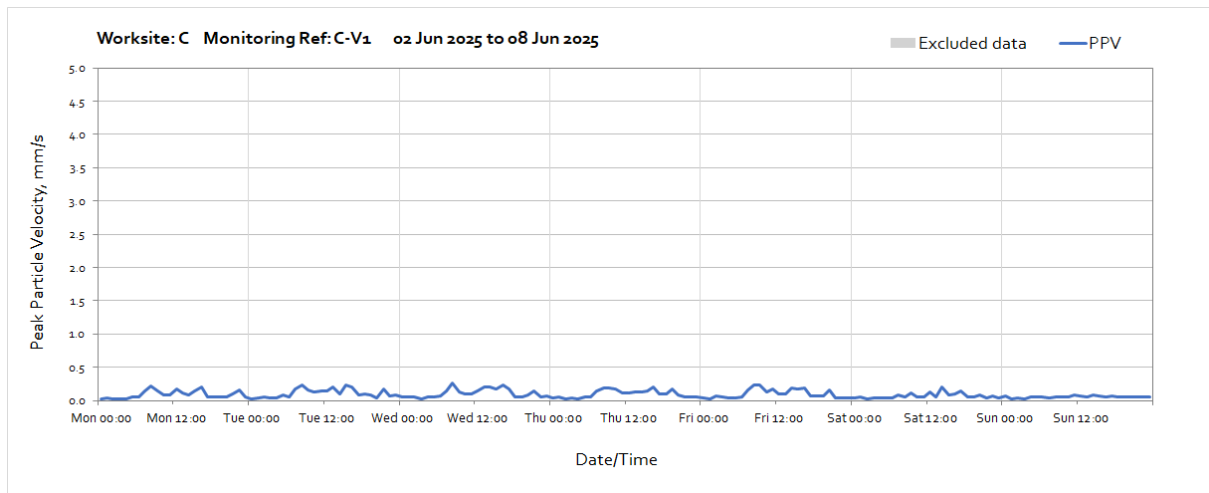


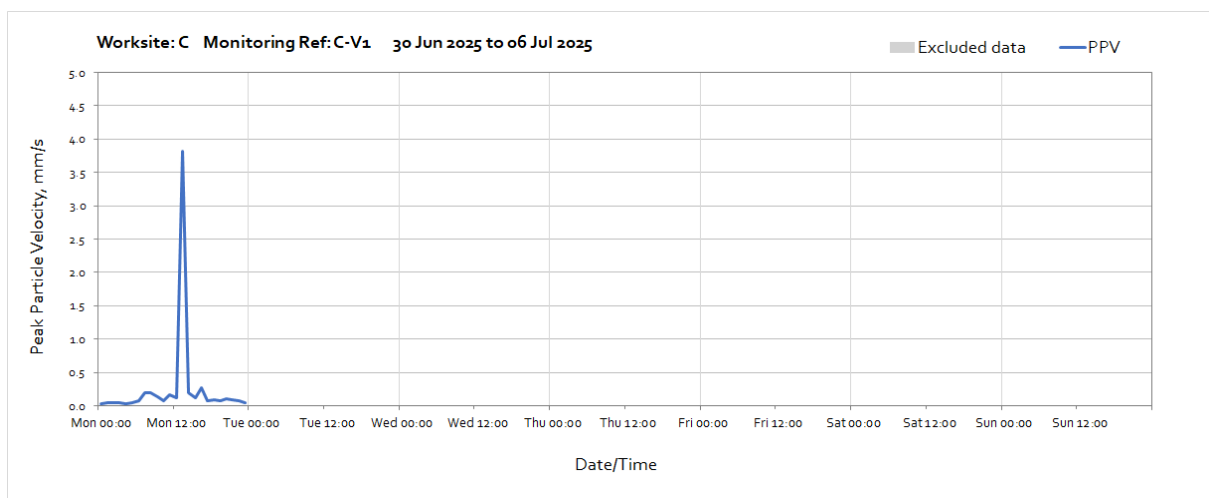
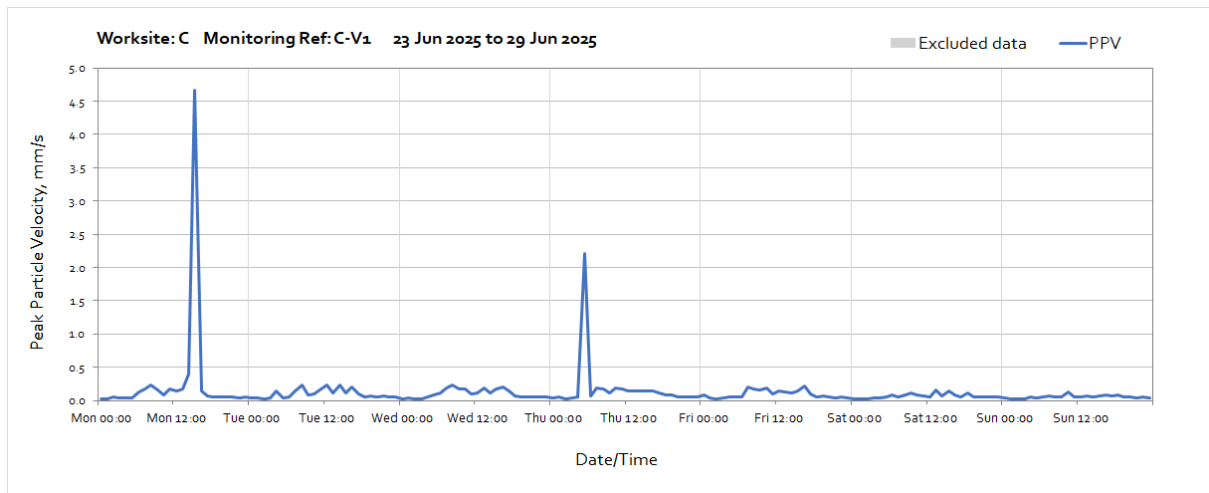




## Worksite: C – Monitoring Ref: C-V1







## Worksite: OC – Monitoring Ref: FOS-V1

