

Construction Noise and Vibration Monthly Report – October 2025

London Borough of Hillingdon

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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 monitoring carried out within the London Borough of Hillingdon during the month of October 2025.

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

- Colne Valley Viaduct site (ref.: CVV), where operation of compound and satellite welfare sites, operation and maintenance of the haul roads, access road construction, soil and seeding works, drainage works, water management works, South Abutment works, environmental maintenance, stockpiling, deck finishing works, landscaping, and jetty removal were underway.
- West Ruislip Portal worksite (ref.: WRP) where maintenance of wildlife habitat, unloading of deliveries, headhouse and porta construction, concrete slab and foundation removal, maintenance works, embankment reprofiling works, removal of tunnelling support structures, crane lifting and tunnel walkway construction were underway.
- Breakspear Road worksite (ref.: BR), where removal of hoarding, construction of permanent pond, enabling works, installation of noise barriers, installation of drainage system, installation of water treatment plant, footbridge preparation works and piling were underway.
- South Ruislip Ventilation Shaft worksite (ref.: SRVS), where road sweeping, concrete breaking, brickwork, concrete spraying, steel fixing, concrete works, drainage works and general site management were underway.
- Harvil Road worksite (ref.: HR), where placement of topsoil and subsoil, landscaping, seeding and operation of water treatment plant were underway.
- Northern Sustainable Placement Area worksite (ref.: NSPA) where fence installation, landscaping maintenance, excavation works, surface water and borehole monitoring, and construction of footpaths were underway.

Further works, where monitoring did not take place, were also undertaken at the following locations:

- Copthall North, where works for flood compensation area including watering, seeding and fencing replacement, construction of Copthall Tunnel headhouse, installation of sheet piles, earthworks, construction of piling mat, Copthall Tunnel and Eastern Portal construction including drainage installation, concrete pouring wall construction and backfilling 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 on one (1) occasion due to HS2 works during October 2025.

There were no exceedances of trigger levels as defined in Section 61 consents during the reporting period.

Three (3) complaints regarding noise and vibration were 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 may 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 London Borough of Hillingdon (LBH) for the period 1st to 31st October 2025.
- 1.1.3 Active construction sites in the local authority area where monitoring was undertaken during this period include:
- Colne Valley Viaduct worksite, ref.: CVV (see Plan 1 in Appendix A), where work activities included:
 - Compound and satellite welfare site operations.
 - Operation and maintenance of haul roads.
 - Access road construction.
 - Soil and seeding works.
 - Drainage works.
 - Slab removal.
 - Water pumping management works.
 - South Abutment works, including drainage works, earthworks, abutment construction, yard supporting activities, soiling, seeding and launching girder platform removal.

- Environmental maintenance.
- Stockpiling.
- Deck finishing works, including logistics and structural health monitoring.
- Landscaping works, including drainage, removal of cofferdams, de-vegetation, hardstanding removal, earthworks, subsoil, topsoil, cultivating, seeding, planting and road construction.
- West Ruislip Portal worksite, ref.: WRP (see Plan 2 in Appendix A), where work activities included:
 - Maintenance wildlife habitat.
 - Unloading of deliveries and materials.
 - Headhouse and porous portal construction including concreting, formwork, steel fixing and hydro scabbling.
 - Concrete slab and foundation removal.
 - Ruislip Golf Course maintenance works, including vegetation clearance and tree pruning.
 - Embankment reprofiling works, including excavation and material removal.
 - Removal of tunnelling support structures, including tunnel boring machine blind ring and shove frame.
 - Crane lifting.
 - Tunnel walkway construction.
- Breakspear Road worksite, ref.: BR (see Plan 2 in Appendix A), where work activities included:
 - Removal of timber hoarding.
 - Construction of permanent pond.
 - Enabling works for the construction of the flood compensation area.
 - Installation of noise barriers.
 - Installation of drainage systems.
 - Installation of water treatment plant.
 - Footbridge preparation works.
 - Piling.

- South Ruislip Ventilation Shaft worksite, ref.: SRVS (see Plan 4 in Appendix A), where work activities included:
 - Road sweeping.
 - Concrete breaking for northern boundary wall.
 - Brickwork.
 - Concrete spraying.
 - Steel fixing and concreting for western boundary wall.
 - Digging and installing chambers for drainage works.
 - General site management including operation of generators and water pumps and site security.
- Harvil Road worksite, ref.: HR (see Plan 2 in Appendix A), where work activities included:
 - Placement of topsoil and subsoil.
 - Landscaping maintenance including installation of ecological features.
 - Seeding.
 - Operation of water treatment plant including maintenance and drainage works.
- Northern Sustainable Placement Area worksite, ref.: NSPA (see Plan 3 in Appendix A), where activities included:
 - Fence installation.
 - Landscaping and tree pit excavation works.
 - Surface water and borehole monitoring.
 - Construction of footpath.

Further works, where monitoring did not take place, were also undertaken at the following location:

- Copthall North, where works for flood compensation area including watering, seeding and fencing replacement, construction of Copthall Tunnel headhouse, installation of sheet piles, earthworks, construction of piling mat, Copthall Tunnel and Eastern Portal construction including drainage installation, concrete pouring, wall construction and backfilling were underway.

1.1.4 The applicable standards, guidance, and monitoring methodology are 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 Seventeen (17) noise and three (3) vibration monitoring installations were active in October in the LBH area. Table 2 summarises the location of noise and vibration monitoring installations within the LBH area in October 2025.

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

Table 2: Monitoring Locations

Worksite Reference	Measurement Reference	Address
CVV	DLC-NMP	Dew's Farm Cottages, Dews Lane, Harefield, Uxbridge
	HFM-NMP	Harefield Marina, Moorhall Road, London Borough of Hillingdon
	WRC-NMP	Savay Lane, Denham, Uxbridge
WRP	WRP-N001	Ruislip Golf Course, Ickenham Rd, Ruislip
	N048	Ruislip Golf Course, Ickenham Rd, Ruislip
	N056	83 The Greenway, Ickenham, Ruislip
	N057	123 The Greenway, Ickenham, Ruislip
	GW-V001	95 The Greenway, Ickenham, Uxbridge
BR	N065	Breakspear Road South, Harefield, Uxbridge
	N066	Hoylake Crescent, Ickenham, Uxbridge
	TKL-N001	Tile Kiln Lane, Harefield, Uxbridge
	HC-N001	Hoylake Crescent, Ickenham, Uxbridge
	HC-V001	Hoylake Crescent, Ickenham, Uxbridge
SRVS	N061	Cineworld South Ruislip car park, Ruislip
	TCA-N001	Trenchard Avenue, Ruislip
	SRVS-V001a	Braintree Road, Ruislip
HR	N067	Harvil Road worksite south boundary
	BSR-N001	Breakspear Road
	DGT-N001	Dogs Trust West London
NSPA	NSPA-N001a	Newyears Green Lane

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_{Aeq} Data over the Monitoring Period

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
CVV	DLC-NMP	Dew's Farm Cottages, Dews Lane, Harefield	Façade	50.5 (53.8)	64.4 (66.8)	54.4 (59.6)	48.1 (57.9)	44.0 (52.8)	45.4 (49.1)	61.6 (62.1)	51.5 (53.3)	49.2 (53.3)	43.8 (50.1)	47.3 (52.4)	43.2 (50.4)
	HFM-NMP	Harefield Marina, Moorhall Road, London	Free-field	46.3 (49.2)	52.8 (75.9)	47.7 (49.9)	45.4 (50.9)	41.8 (52.7)	43.4 (44.3)	48.8 (49.3)	48.6 (49.4)	47.8 (50.3)	41.8 (47.4)	46.9 (49.9)	40.8 (45.1)
	WRC-NMP	Savay Lane, Denham, Uxbridge	Façade	52.3 (53.9)	53.4 (56.0)	52.2 (53.5)	50.4 (55.3)	45.3 (56.0)	49.2 (50.2)	52.2 (54.0)	52.1 (54.4)	51.5 (55.4)	44.8 (48.7)	50.4 (52.8)	44.2 (49.2)
WRP	WRP-N001	West Ruislip Golf Club, Ickenham Rd, Ruislip	Free-field	46.2 (50.6)	48.6 (68.5)	45.8 (64.4)	45.2 (63.8)	41.2 (51.5)	46.3 (51.1)	48.3 (54.2)	50.7 (56.6)	48.3 (58.6)	43.5 (57.1)	46.7 (54.5)	40.1 (47.7)
	N048	West Ruislip Golf Club, Ickenham Rd, Ruislip	Free-field	55.7 (67.0)	56.4 (63.5)	53.8 (59.3)	53.0 (60.3)	49.4 (59.8)	52.3 (55.5)	54.4 (60.6)	55.4 (62.8)	53.6 (60.7)	50.4 (59.9)	53.1 (58.7)	47.6 (54.7)
	N056	83 The Greenway, Ickenham, Ruislip	Façade	61.0 (62.4)	60.1 (61.6)	60.0 (61.9)	58.4 (61.6)	55.1 (61.6)	59.1 (60.2)	60.1 (60.8)	60.6 (61.8)	60.2 (62.0)	52.6 (60.7)	59.7 (62.3)	53.9 (60.2)
	N057	123 The Greenway, Ickenham, Ruislip	Façade	57.9 (58.8)	57.0 (58.1)	57.5 (62.5)	56.0 (59.6)	52.0 (57.7)	56.0 (56.8)	57.0 (58.6)	58.1 (60.9)	57.0 (61.6)	54.3 (68.7)	56.4 (61.1)	50.0 (56.2)

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
BR	N065	Breakspear Road South, Harefield	Free-field	64.1 (68.6)	65.1 (67.7)	63.8 (67.8)	62.0 (66.3)	57.9 (66.6)	63.4 (64.0)	66.2 (66.9)	66.7 (67.1)	65.1 (66.9)	58.2 (63.1)	64.6 (70.0)	57.2 (65.3)
	N066	Hoylake Crescent, Ickenham, Uxbridge	Free-field	56.8 (60.4)	56.0 (58.2)	55.5 (59.3)	54.2 (57.8)	50.8 (59.4)	53.4 (53.4)	56.0 (56.0)	58.3 (58.3)	55.5 (57.2)	47.9 (53.8)	54.5 (55.4)	50.3 (54.2)
	TKL-N001	Tile Kiln Lane, Harefield, Uxbridge	Free-field	50.3 (51.6)	50.7 (52.2)	48.9 (52.5)	47.3 (50.7)	44.6 (50.0)	47.2 (47.2)	49.8 (49.8)	51.6 (51.6)	48.5 (51.8)	41.8 (45.4)	48.6 (52.4)	43.6 (49.2)
	HC-N001	Hoylake Crescent, Ickenham, Uxbridge	Free-field	53.7 (57.3)	51.8 (55.4)	51.7 (57.0)	48.1 (61.2)	46.1 (55.5)	52.8 (54.9)	54.0 (57.2)	54.5 (60.8)	51.7 (61.7)	46.2 (55.8)	50.9 (57.4)	47.3 (56.2)
SRVS	N061	Cineworld South Ruislip car park, Ruislip	Free-field	59.1 (63.7)	63.6 (65.7)	62.9 (68.1)	64.5 (69.8)	59.2 (76.1)	58.4 (59.1)	63.0 (64.4)	64.2 (65.5)	69.8 (89.2)	65.4 (91.1)	62.3 (71.9)	54.6 (61.9)
	TCA-N001	Trenchard Avenue, Ruislip	Free-field	56.7 (57.7)	58.3 (61.6)	56.9 (59.2)	56.1 (61.0)	52.0 (57.5)	54.8 (55.2)	56.5 (57.3)	56.5 (57.5)	56.4 (58.8)	49.8 (58.5)	56.1 (62.4)	50.3 (55.6)

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
HR	N067	Harvil Road worksite south boundary	Free-field	56.6 (60.0)	57.2 (62.2)	57.2 (64.4)	53.6 (68.4)	48.4 (64.4)	52.3 (56.3)	57.7 (62.9)	55.3 (63.8)	58.0 (63.7)	50.4 (63.7)	58.2 (68.4)	46.7 (55.0)
	BSR-N001	Breakspear Road	Free-field	68.7 (70.5)	68.0 (69.6)	67.7 (69.9)	65.3 (68.3)	61.5 (69.8)	65.1 (65.5)	67.5 (67.8)	68.2 (68.8)	67.6 (74.6)	59.2 (63.3)	66.3 (70.9)	61.0 (68.2)
	DGT-N001	Dogs Trust West London	Façade	54.6 (57.7)	54.5 (58.7)	51.8 (55.4)	50.5 (57.0)	47.3 (55.5)	50.4 (53.1)	53.7 (57.2)	55.0 (58.3)	51.4 (57.6)	45.9 (49.8)	51.0 (54.8)	45.8 (54.1)
NSPA	NSPA-N001a	Newyears Green Lane	Free-field	54.4 (58.4)	55.1 (59.8)	50.8 (58.9)	48.8 (57.9)	45.8 (56.5)	48.7 (50.5)	54.7 (61.5)	54.6 (61.2)	52.6 (62.1)	43.9 (49.5)	50.9 (61.8)	44.5 (56.7)

- 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
WRP	GW-V001	95 The Greenway, Ickenham, Uxbridge	0.93 (Y-axis)
BR	HC-V001	Hoylake Crescent, Ickenham, Uxbridge	2.91 (Z-axis)
SRVS	SRVS-V001a	Braintree Road, Ruislip	2.95 (X-axis)

- 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
CVV	DLC-NMP	Dew's Farm Cottages, Dews Lane, Harefield, Uxbridge	Weekday	0800-1800	5	No exceedance
	HFM-NMP	Harefield Marina, Moorhall Road, London	Weekday	0800-1800	2	1
	WRC-NMP	Savay Lane, Denham, Uxbridge	All days	All periods	No exceedance	No exceedance
WRP	WRP-N001	West Ruislip Golf Club, Ickenham Rd, Ruislip	Weekday	0800-1800	1	No exceedance
	N048	West Ruislip Golf Club, Ickenham Rd, Ruislip	Saturday	1300-1400 1400-2200	1 4	No exceedance
	N056	83 The Greenway, Ickenham, Ruislip	All days	All periods	No exceedance	No exceedance
	N057	123 The Greenway, Ickenham, Ruislip	All days	All periods	No exceedance	No exceedance

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of LOAEL	Number of exceedances of SOAEL
BR	N065	Breakspear Road South, Harefield, Uxbridge	All days	All periods	Not applicable*	No exceedance
	N066	Hoylake Crescent, Ickenham, Uxbridge	All days	All periods	No exceedance	No exceedance
	TKL-N001	Tile Kiln Lane, Harefield, Uxbridge	All days	All periods	No exceedance	No exceedance
	HC-N001	Hoylake Crescent, Ickenham, Uxbridge	All days	All periods	No exceedance	No exceedance
SRVS	N061	Hoylake Crescent, Ickenham, Uxbridge	All days	All periods	Not applicable**	Not applicable**
	TCA-N001	Trenchard Avenue, Ruislip	All days	All periods	Not applicable*	No exceedance
HR	N067	Harvil Road worksite south boundary	All days	All periods	No exceedance	No exceedance
	BSR-N001	Breakspear Road	All days	All periods	Not applicable*	No exceedance
	DGT-N001	Dogs Trust West London	All days	All periods	No exceedance	No exceedance
NSPA	NSPA-N001a	Newyears Green Lane	All days	All periods	No exceedance	No exceedance

* The LOAEL has not been assessed due to high baseline levels

** The defined LOAEL and SOAEL criteria are not applicable to non-residential receptor

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

2.2.7 There were exceedances of the SOAEL due to HS2 construction works at one (1) 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 may 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
CVV	HFM-NMP	Harefield Marina, Moorhall Road, London	1

- 2.2.9 There was one (1) 24-hour period where the SOAEL was exceeded due to HS2 construction works during October 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
-	-	-	-	-	-

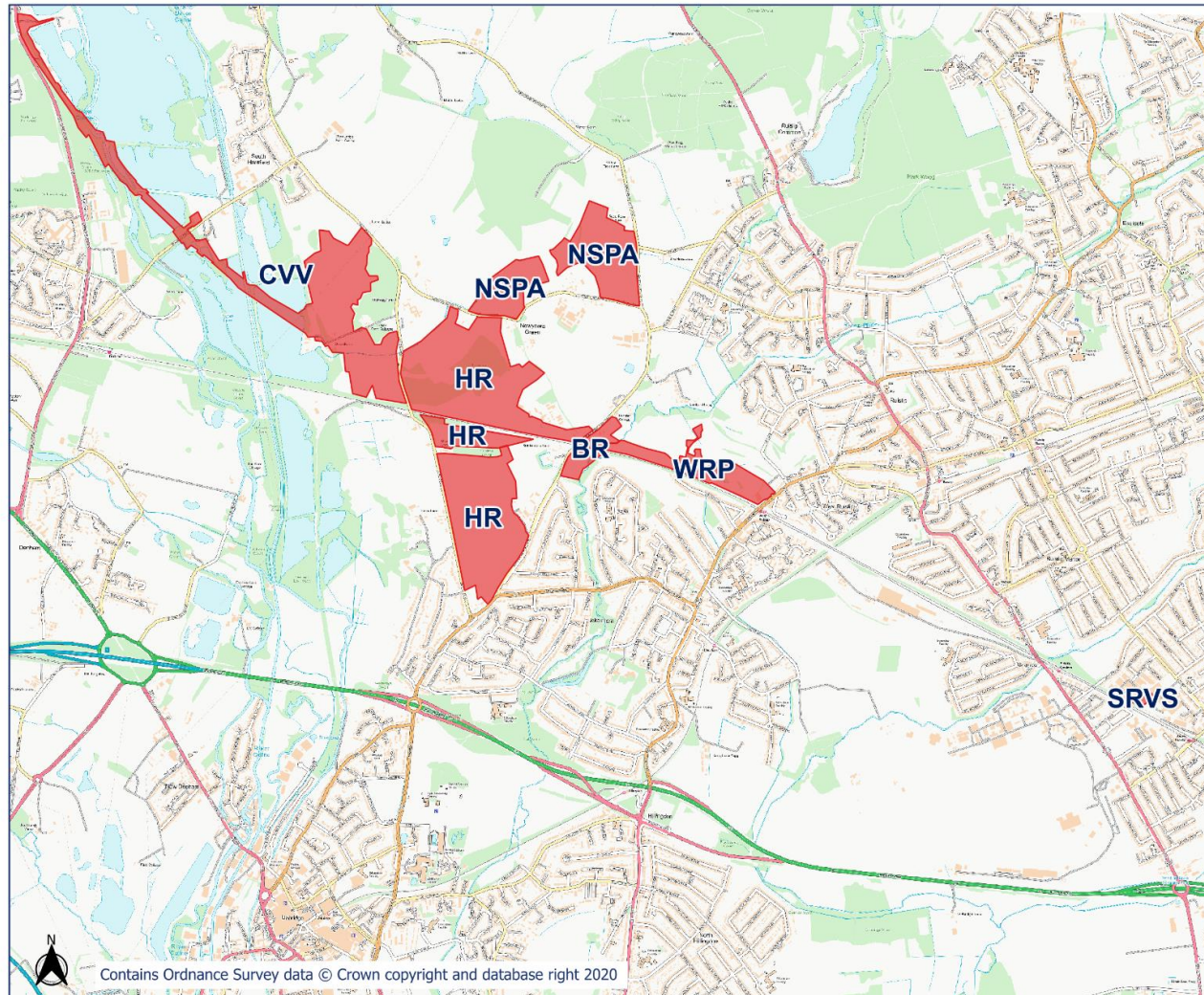
2.4 Complaints

- 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

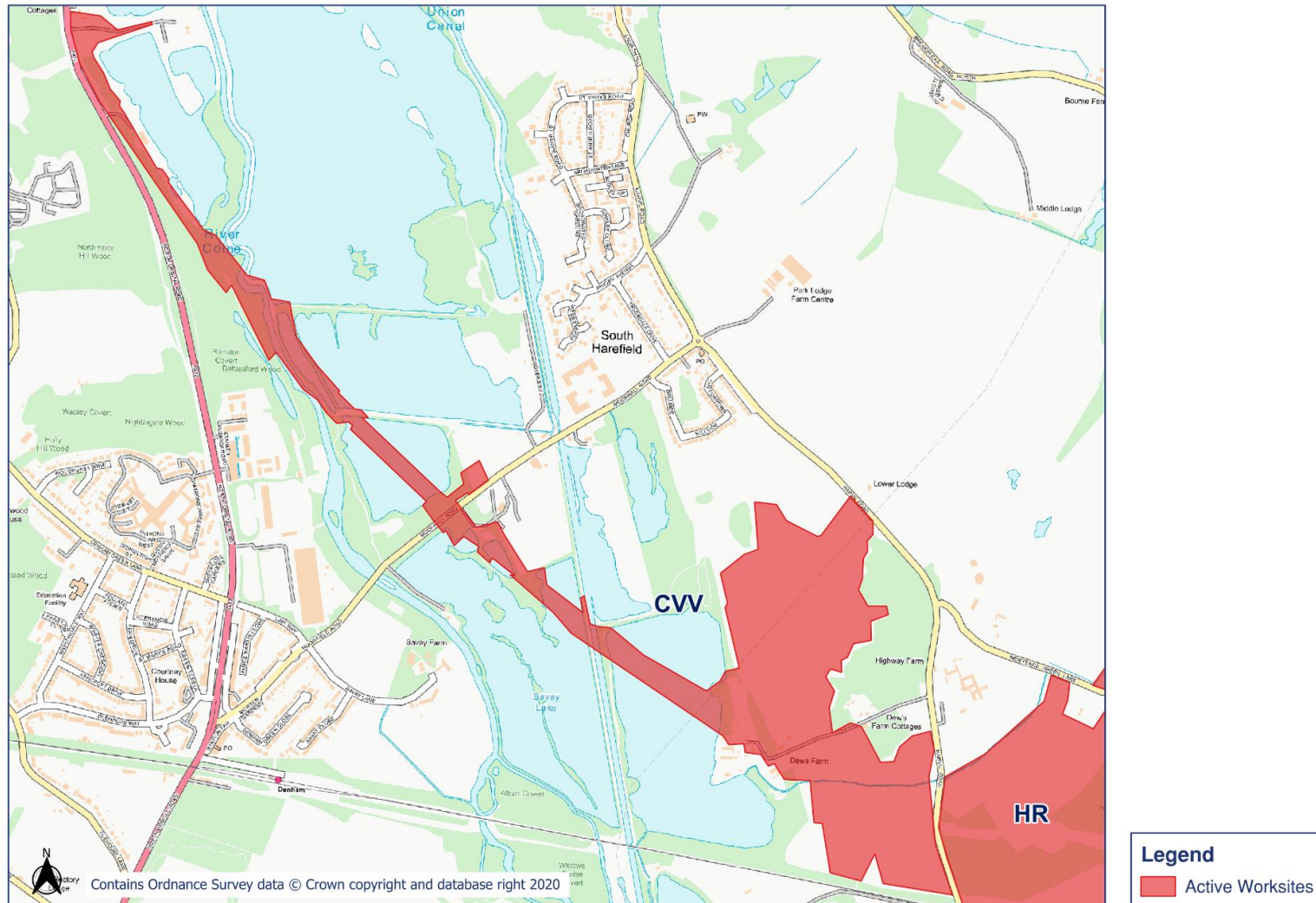
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-25-126608-E-C	WRP	General complaint regarding construction noise.	The noise was associated with demobilisation works. These activities can sometimes be impactful and noticeable to residents and therefore, a special consent for these works had been obtained from the local authority. Noise monitors in the area have not shown any noise exceedances.	A response has been provided to the stakeholder confirming the results of investigation.
HS2-25-126943-E-C	HR	Complaint regarding drilling noise in the afternoon.	No HS2 works were taking place at the time of complaint. The noise is believed to be from nearby works, not related to HS2 works.	A response has been provided to the stakeholder confirming the results of investigation.
HS2-25-46818-C	WRP	Complaint due to noise from vehicles during the night.	No HS2 works were taking place at the time of complaint. The noise is believed to be from nearby works, not related to HS2 works.	A response has been provided to the stakeholder confirming the results of investigation.

Appendix A Site Locations

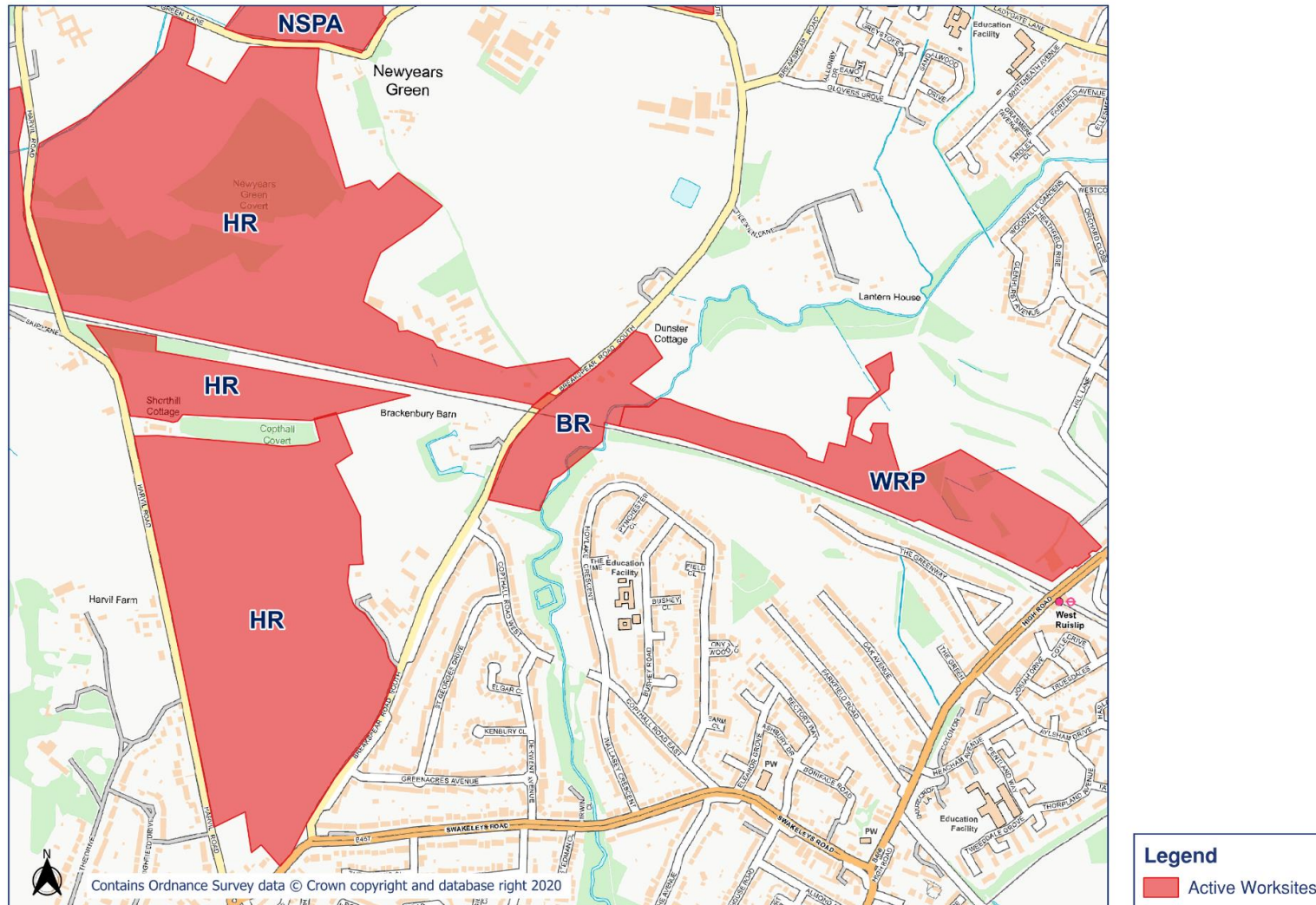


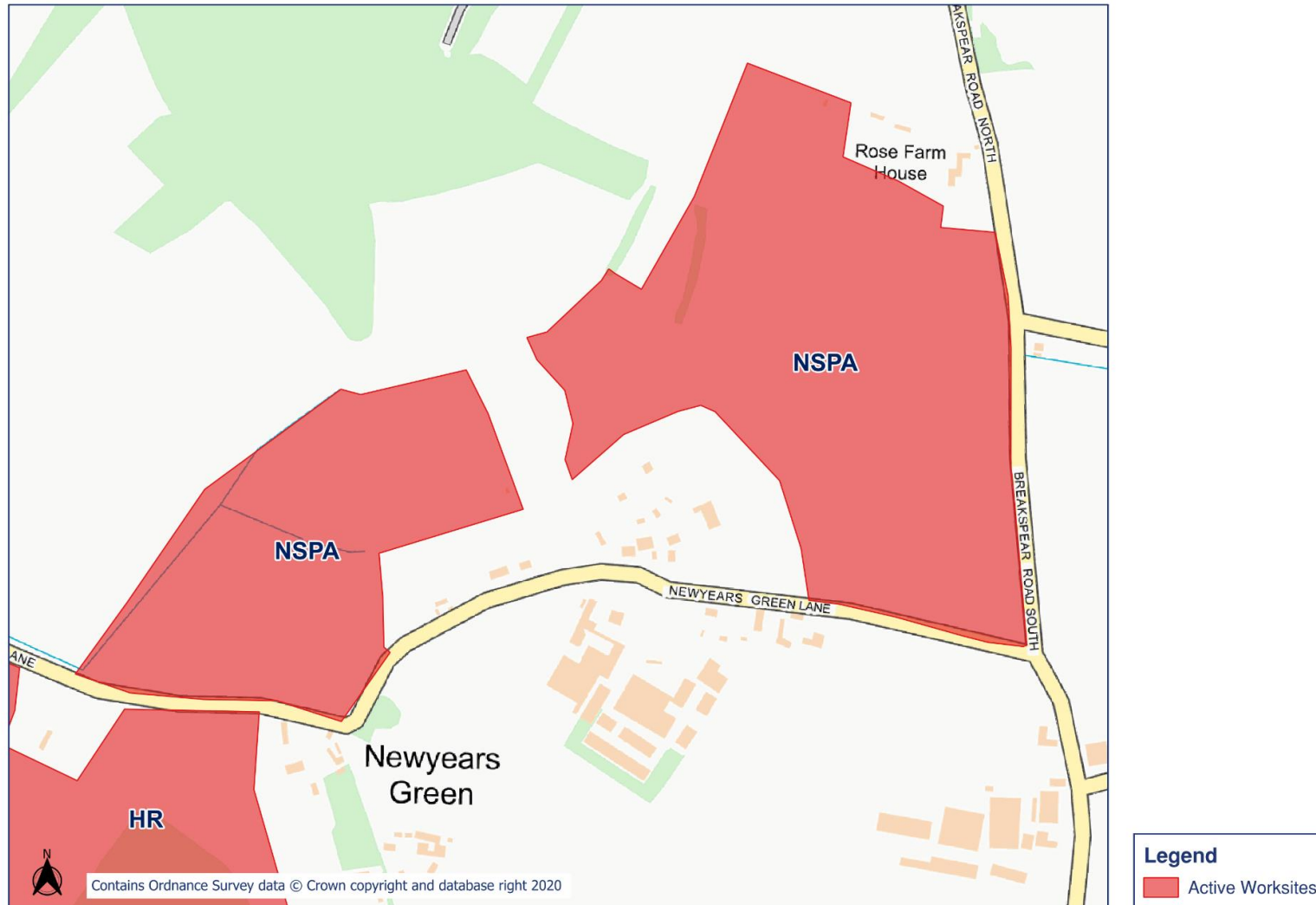
HS2

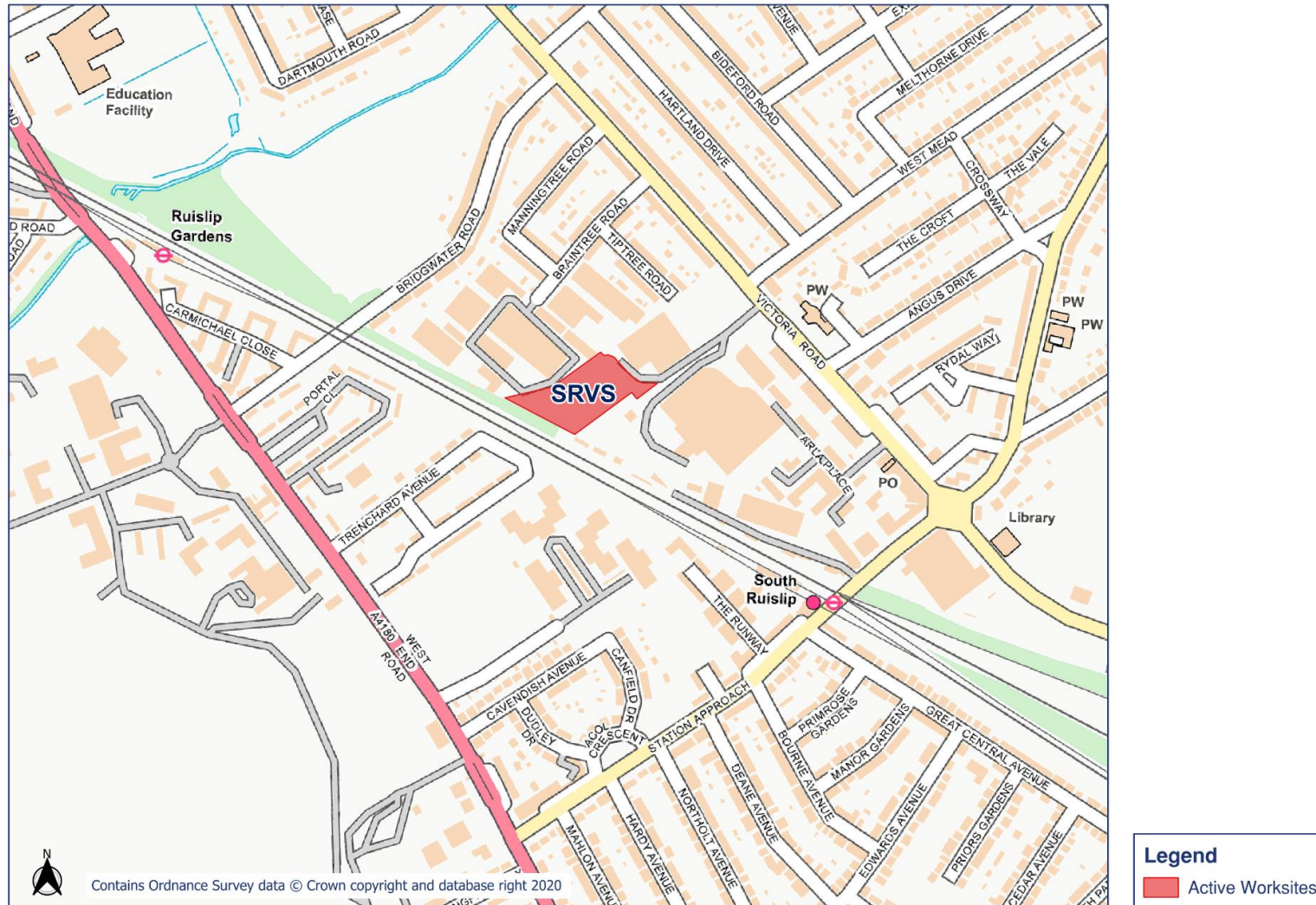
Worksite Identification Plan - 1



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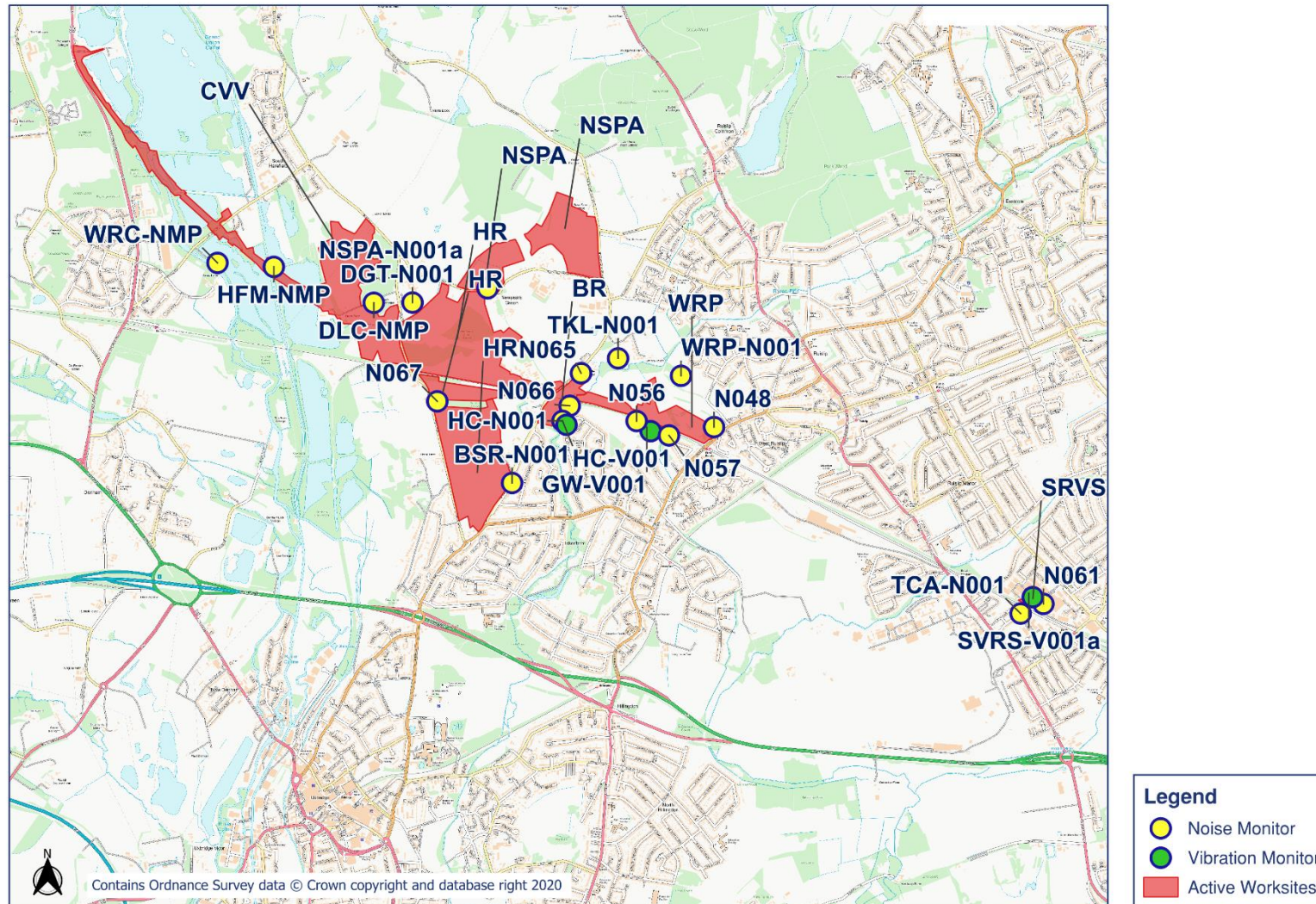






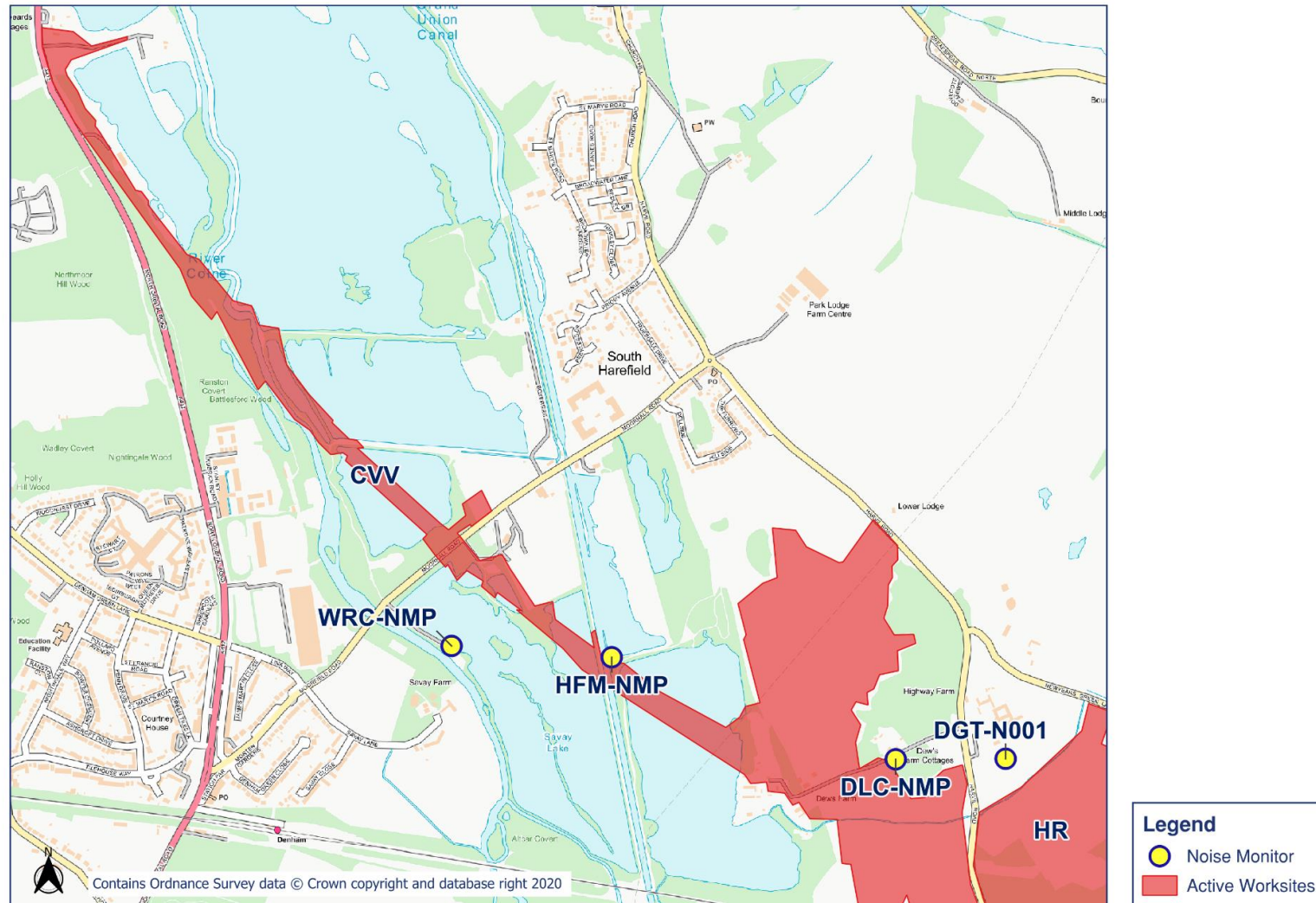
Appendix B Monitoring Locations

HS2 Noise and Vibration Monitoring Plan - Overview



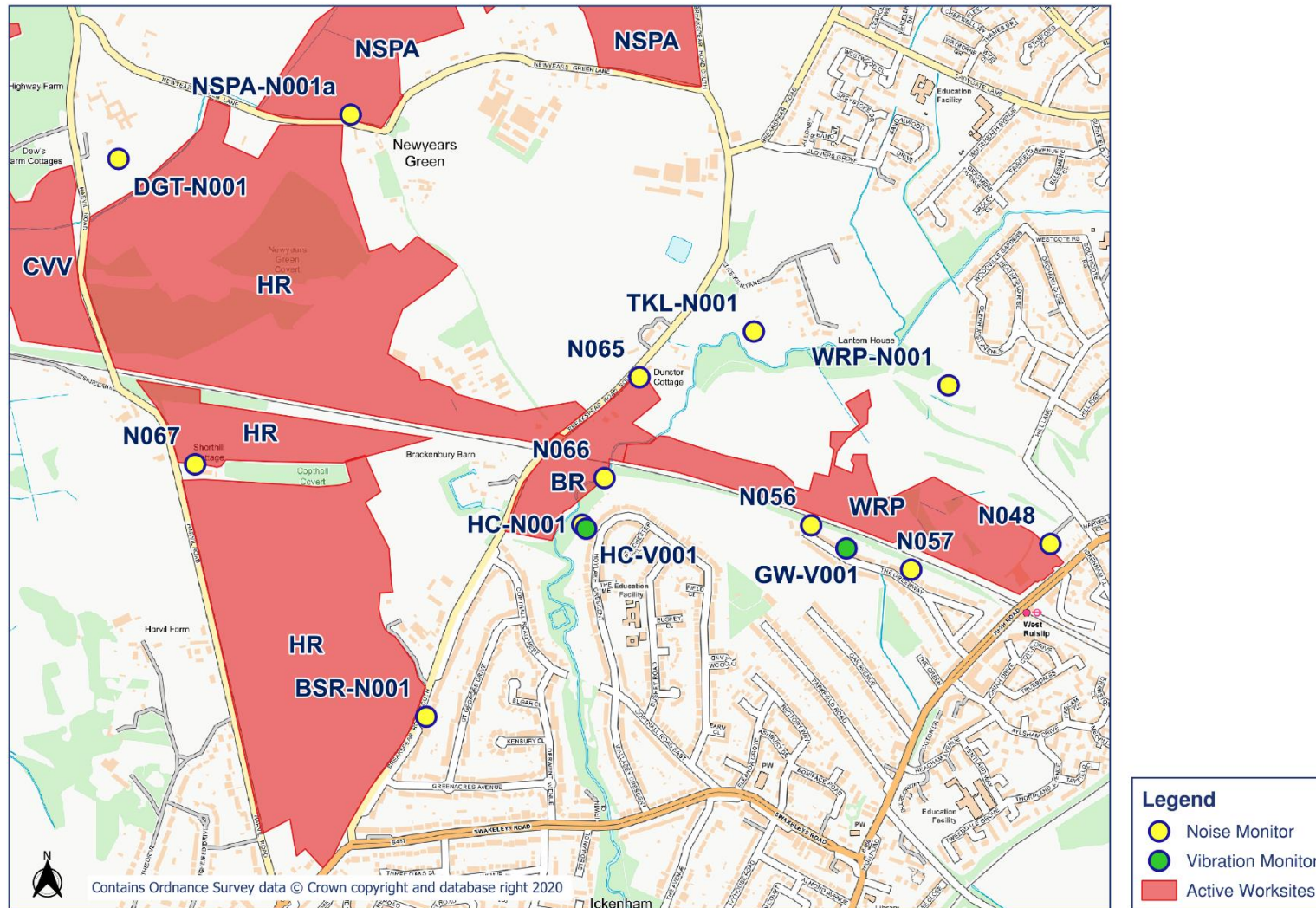
HS2 Noise and Vibration Monitoring Plan - 1

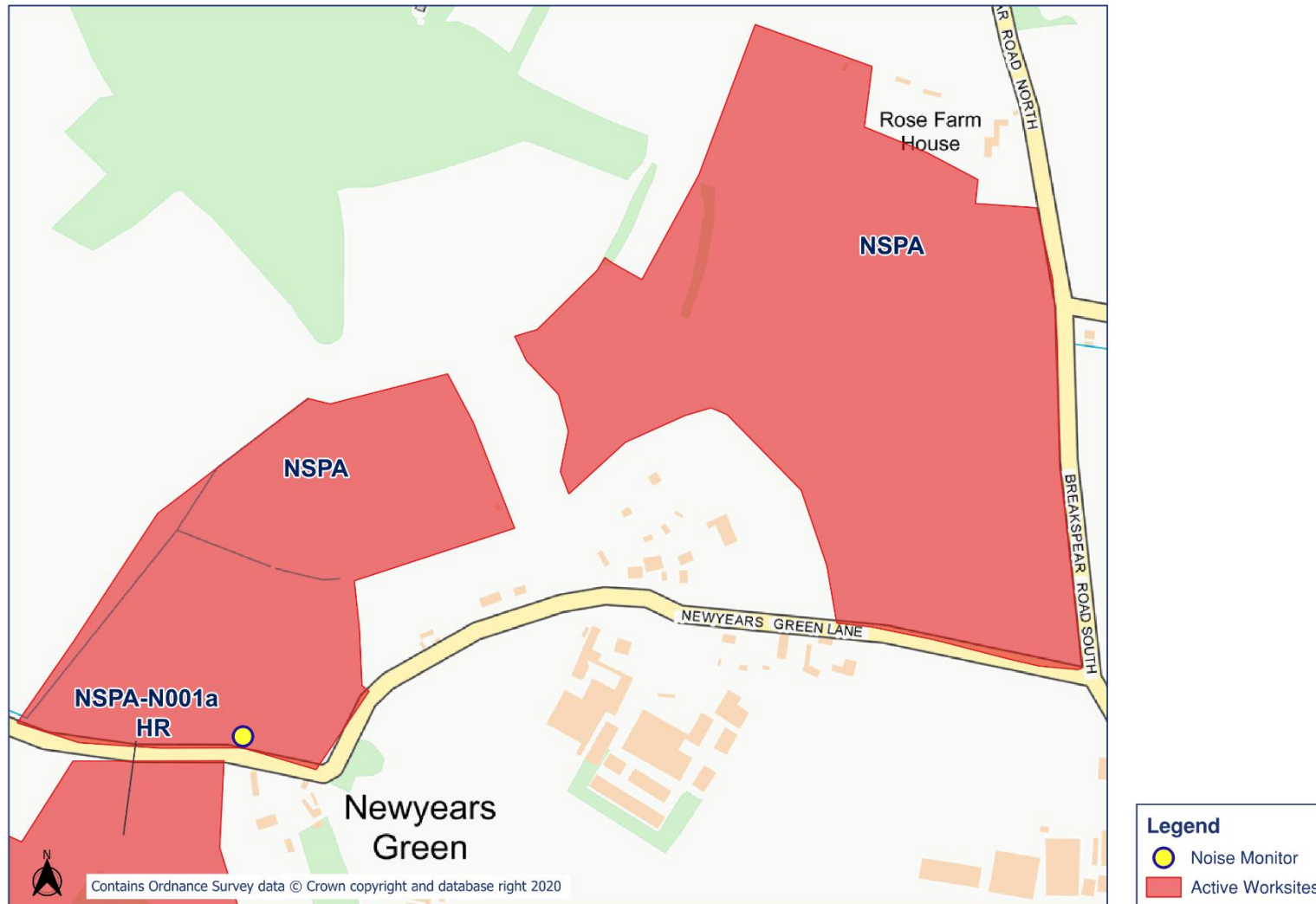
HS2 Noise and Vibration Monitoring Plan - 1

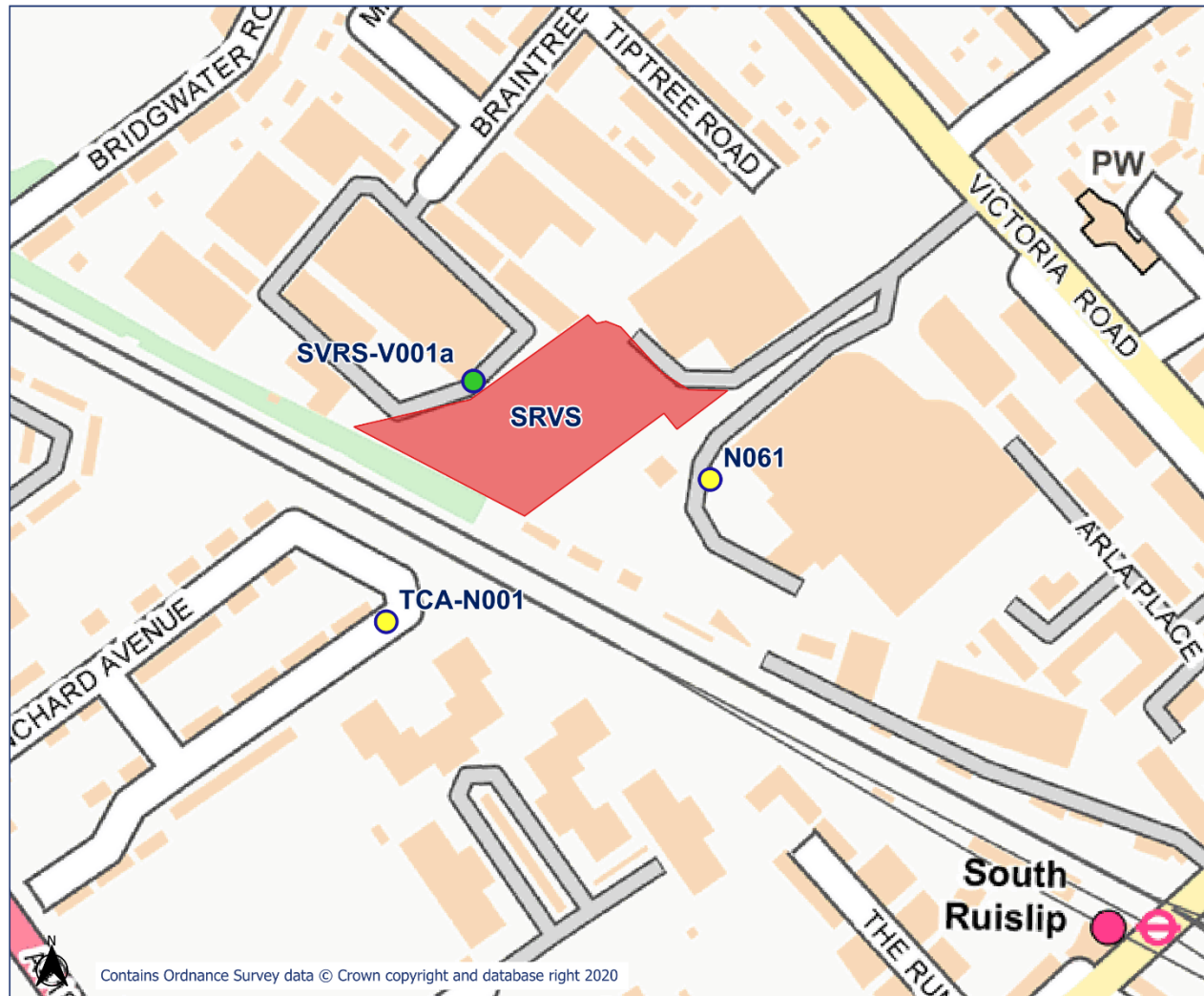


HS2

Noise and Vibration Monitoring Plan - 2





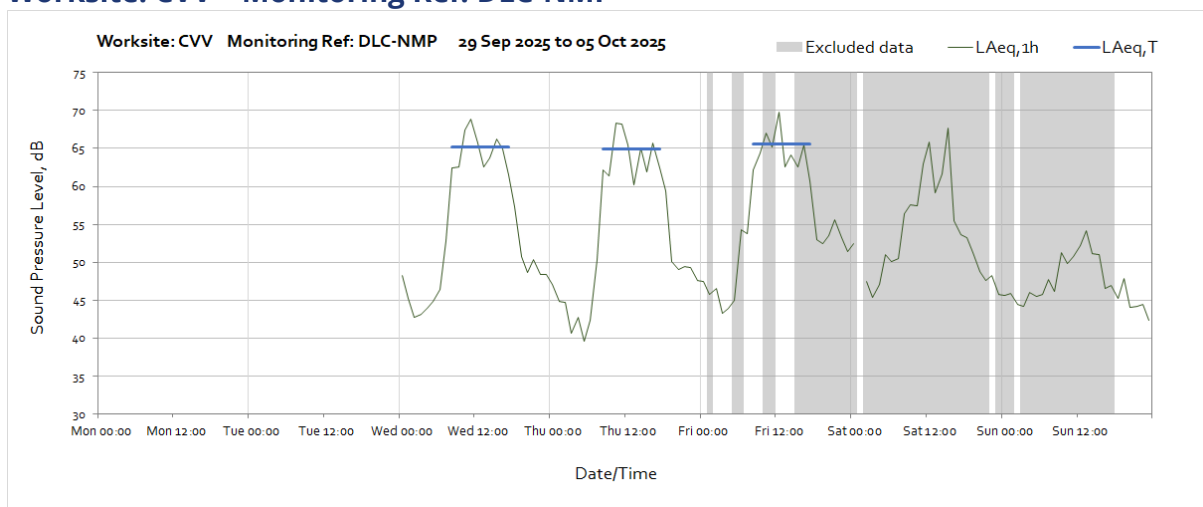


Appendix C Data

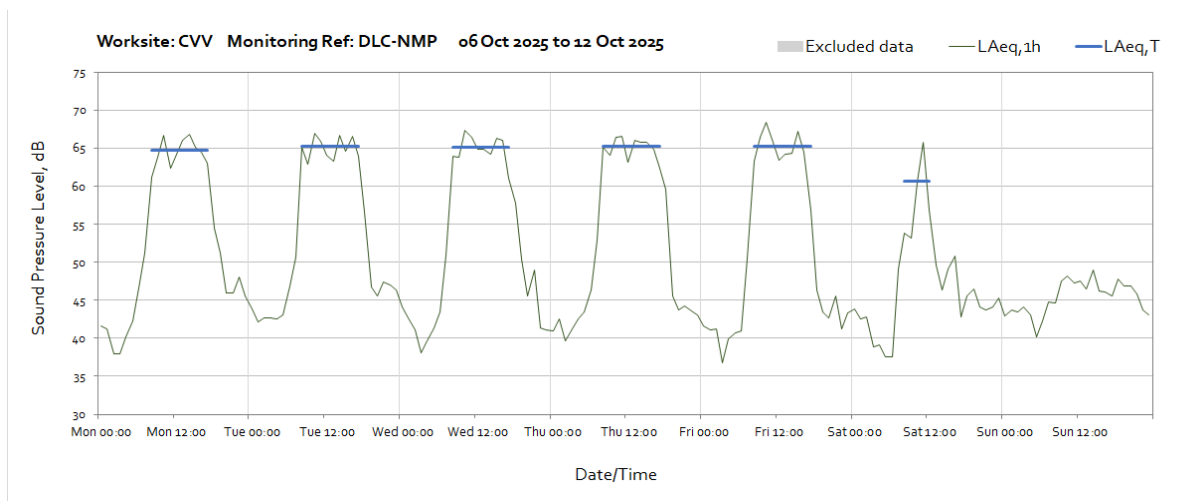
Noise

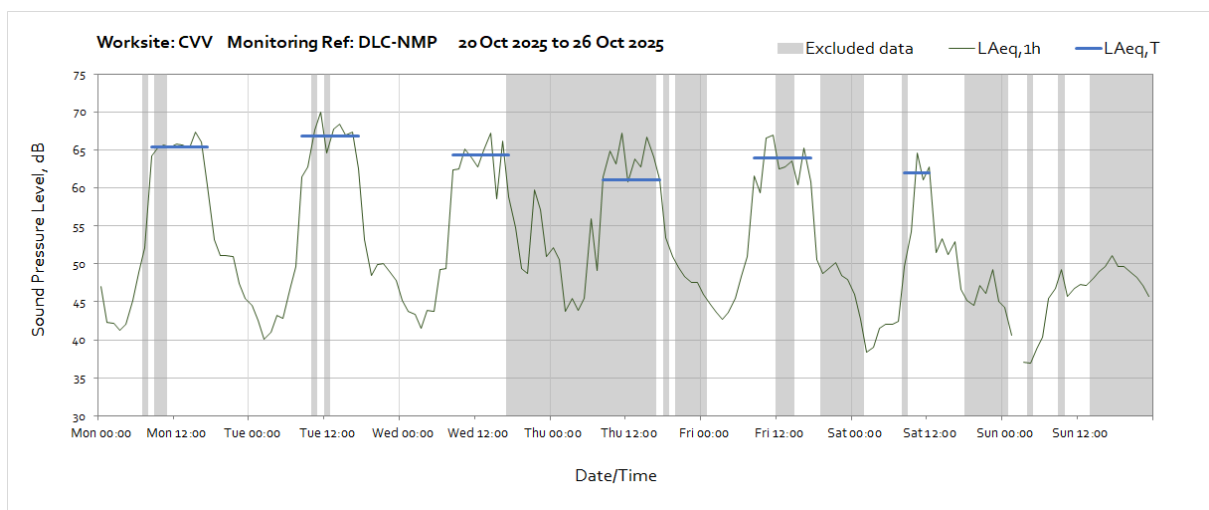
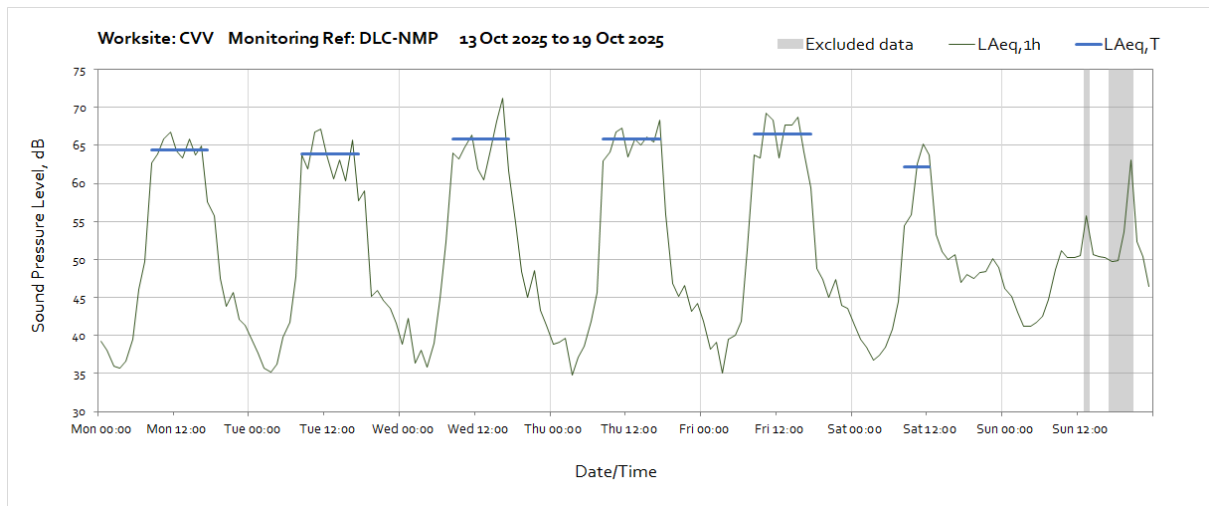
The following graphs show the hourly measured ambient noise level $L_{Aeq,1h}$ and, where relevant, the averaged noise level $L_{Aeq,T}$ values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured 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 Table 3 of the main report.

Worksite: CVV – Monitoring Ref: DLC-NMP

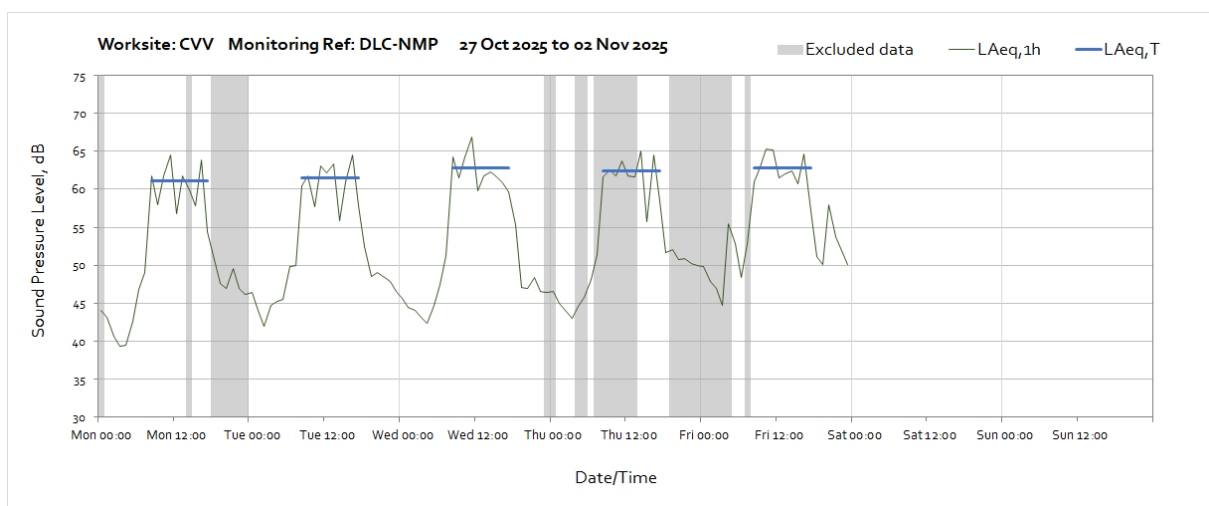


Note: Missing data between 01:00 and 02:00 on Saturday 4th October was due to a communication error between the monitoring station and server.

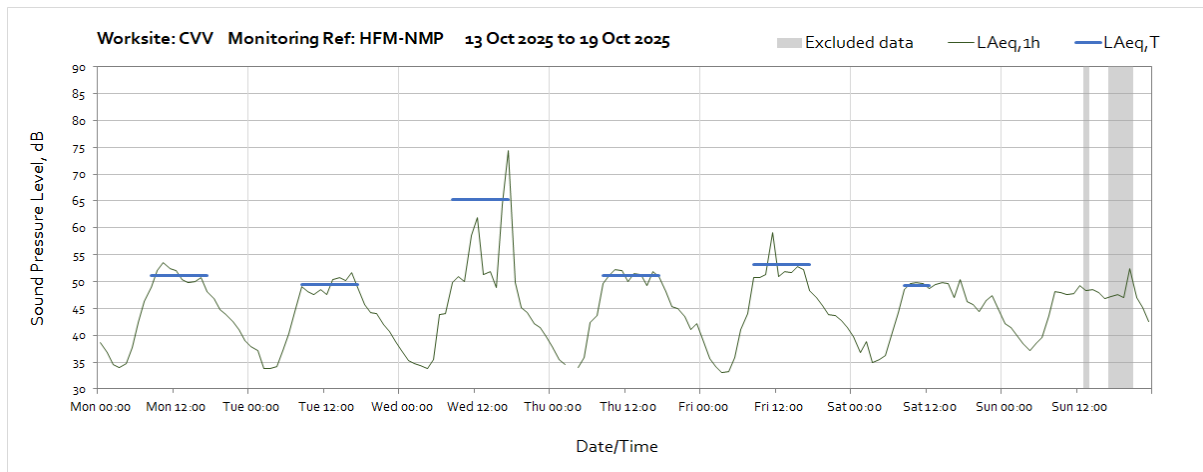
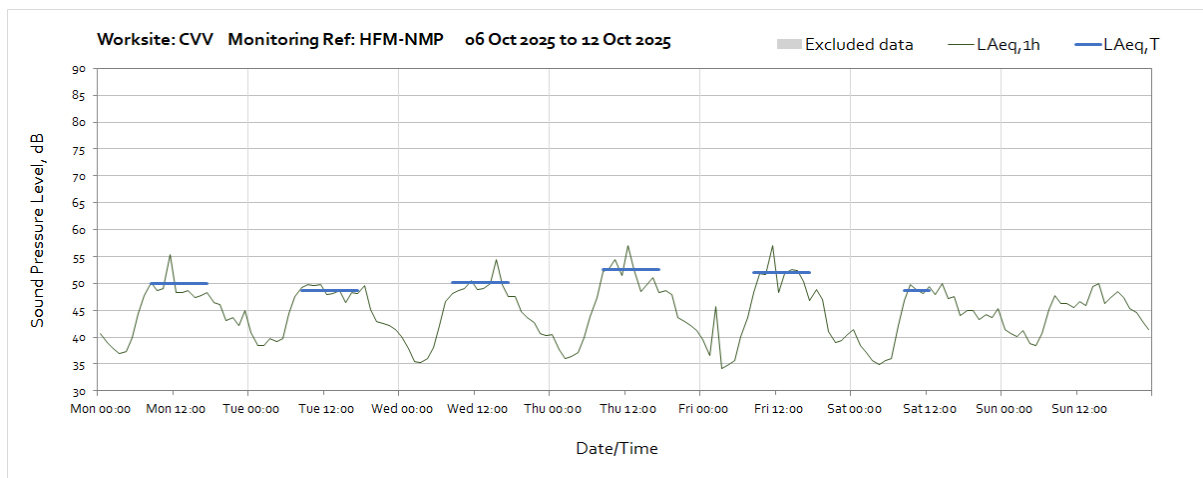
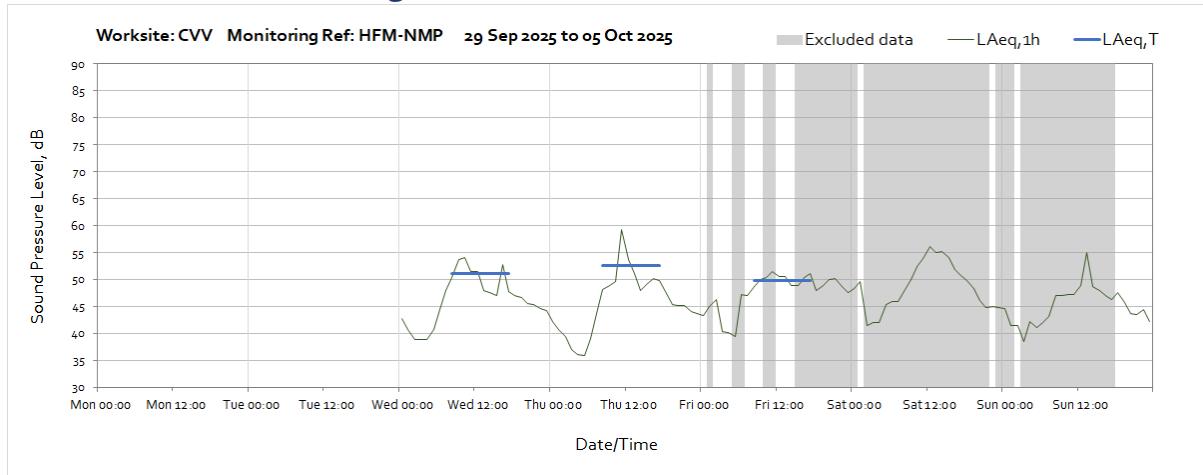




Note: Missing data between 02:00 and 03:00 on Sunday 26th October was due a monitor time adjustment at the end of British Summer Time.

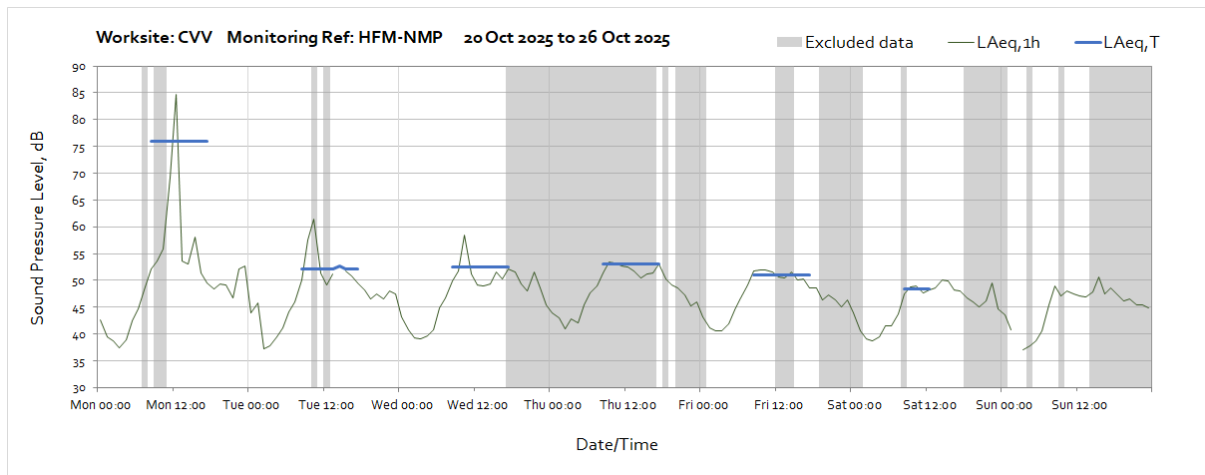


Worksite: CVV – Monitoring Ref: HFM-NMP

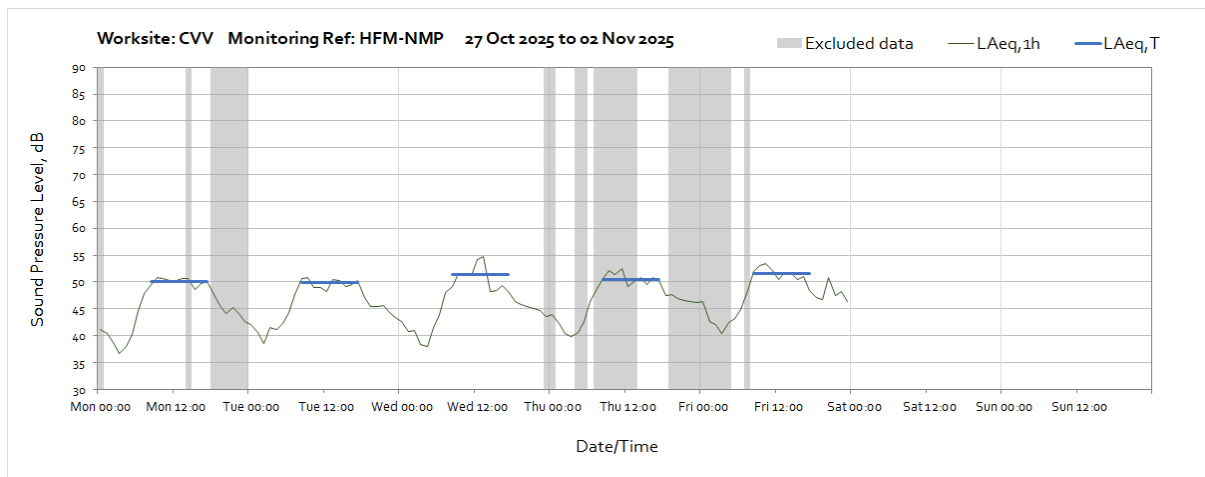


Note: Missing data between 03:00 and 04:00 on Thursday 16th October was due to a communication error between the monitoring station and server.

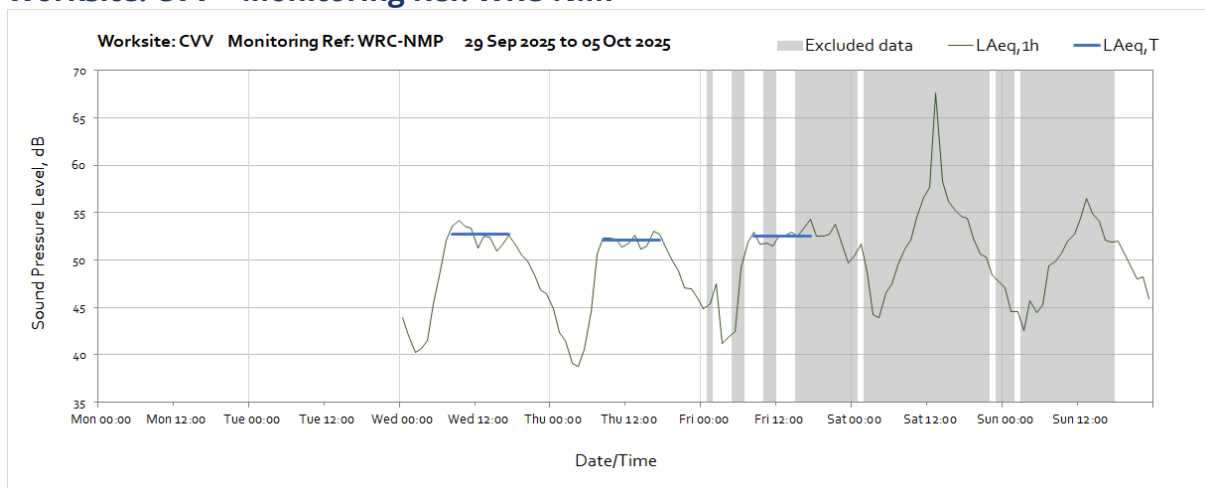
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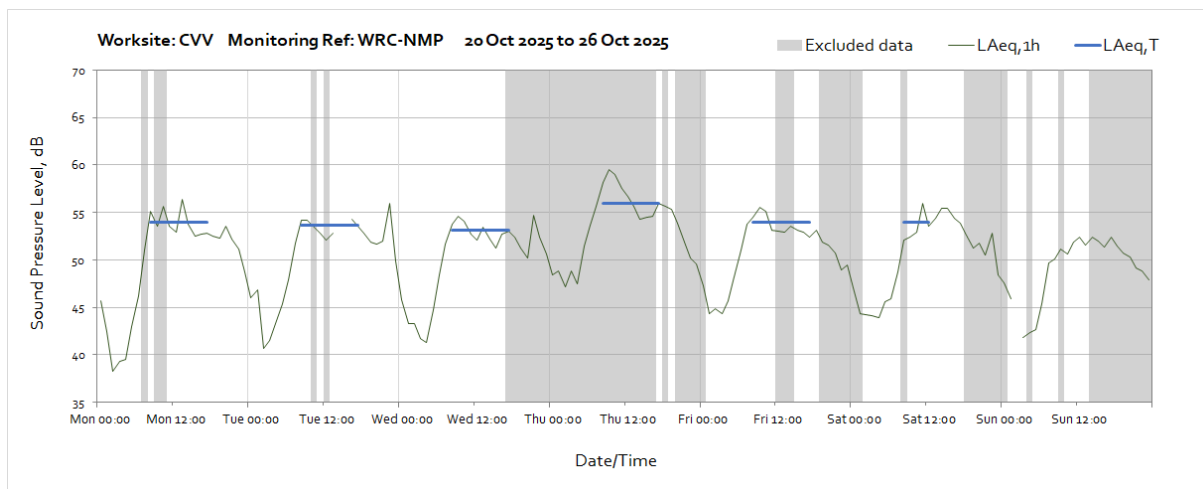
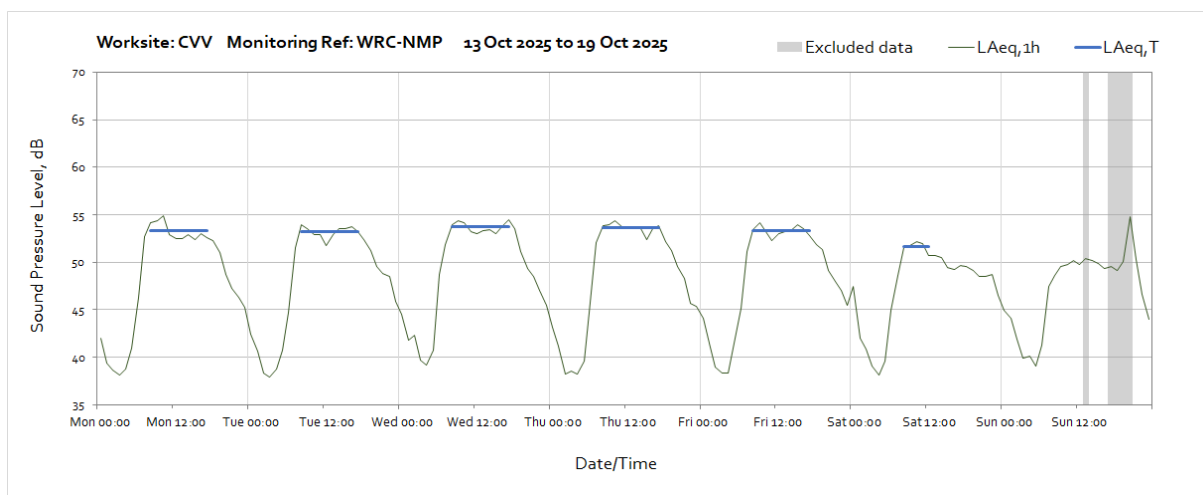
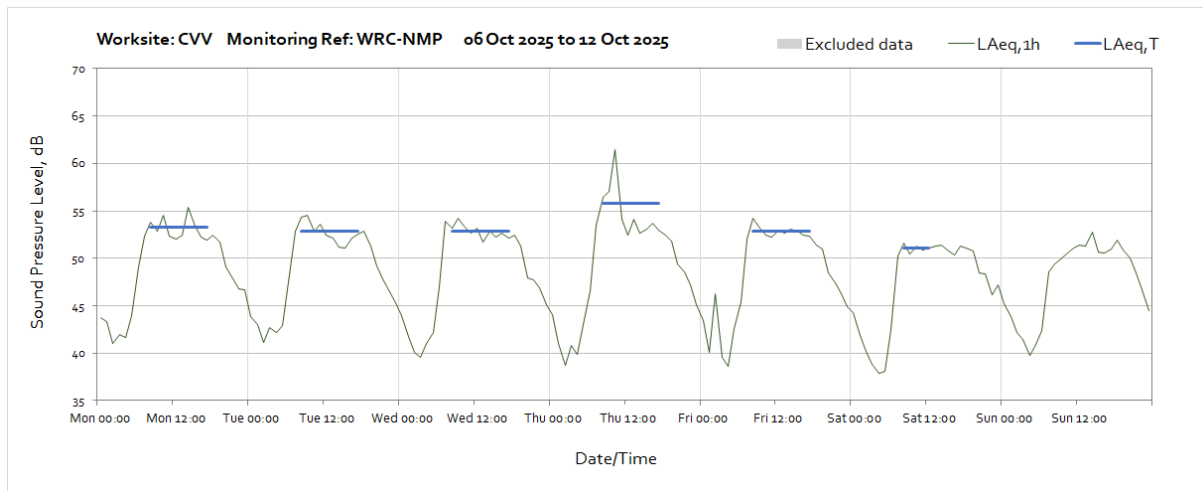


Note: Missing data between 14:00 and 15:00 on Tuesday 21st October was due to field calibration. Missing data between 02:00 and 03:00 on Sunday 26th October was due to a monitor time adjustment at the end of British Summer Time.

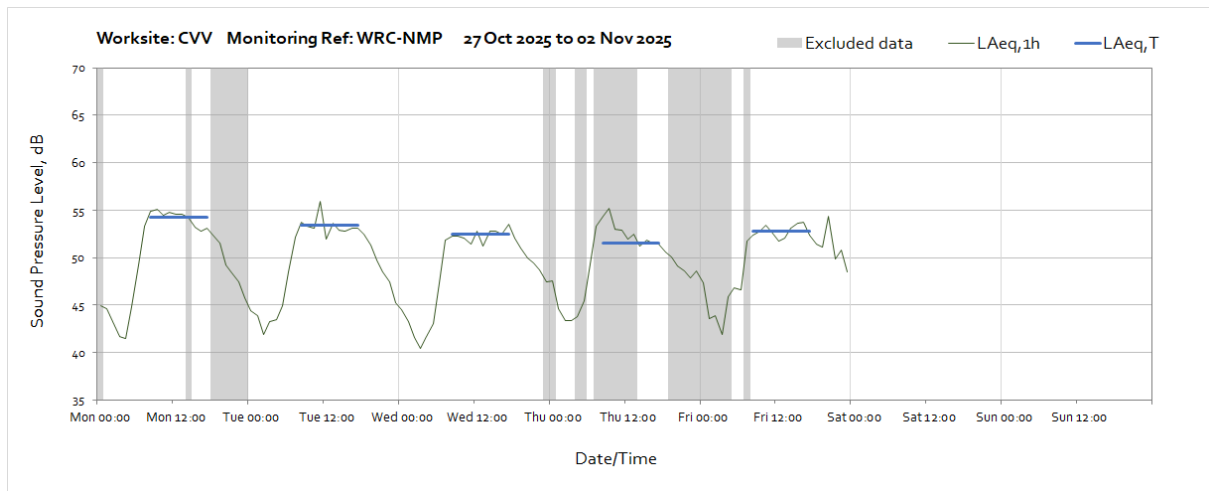


Worksite: CVV – Monitoring Ref: WRC-NMP

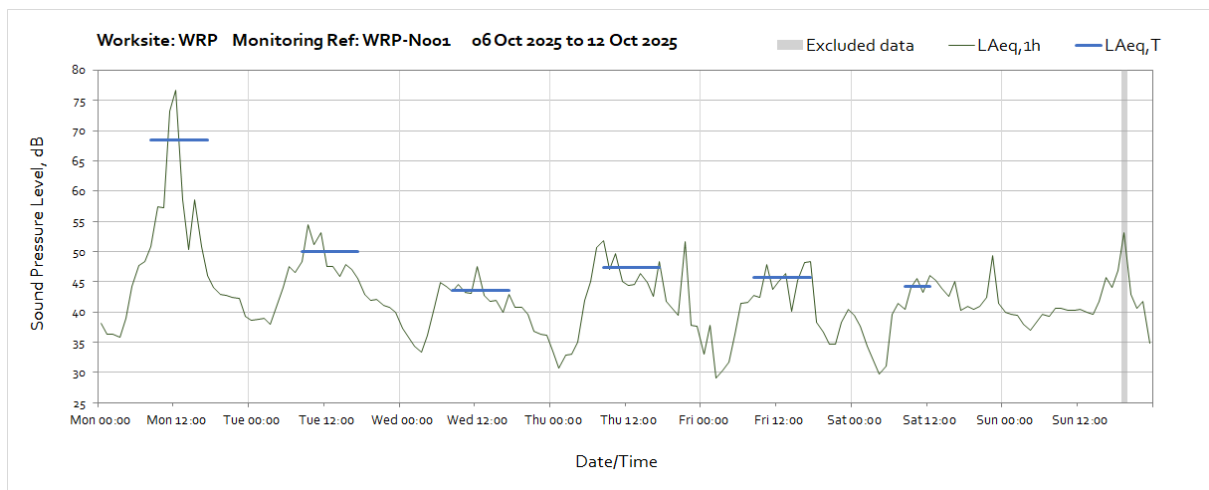
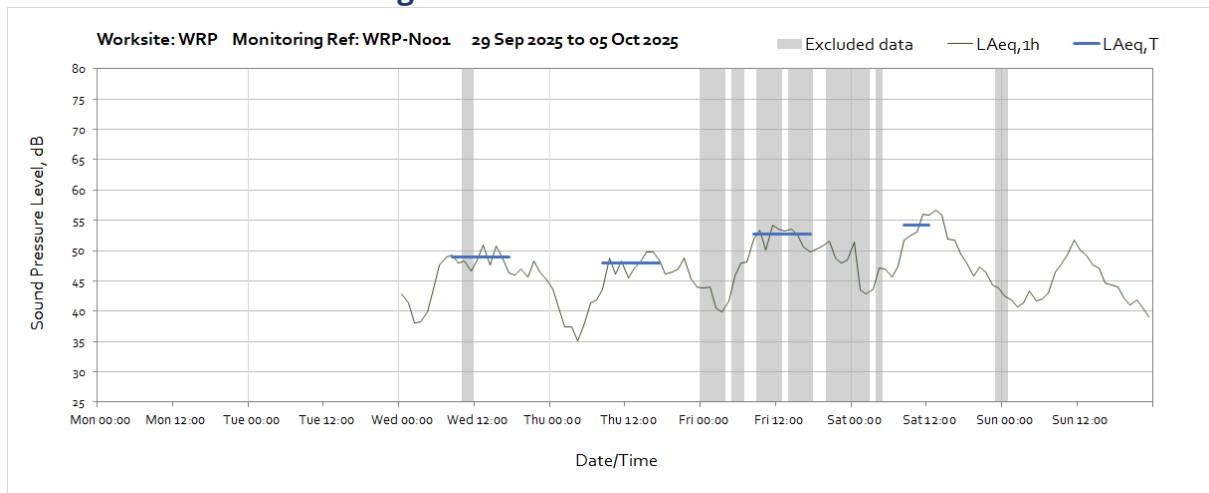


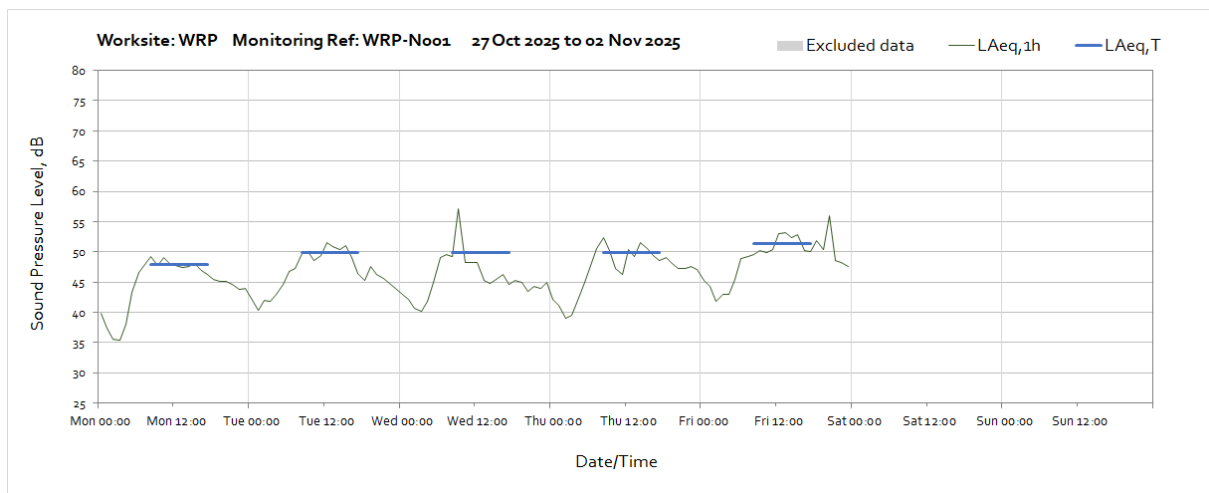
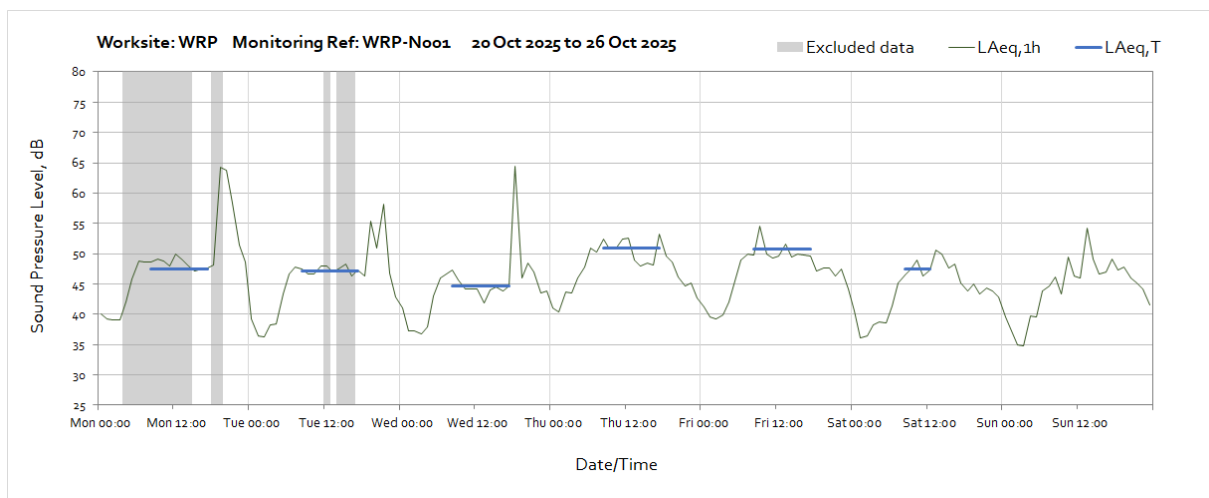
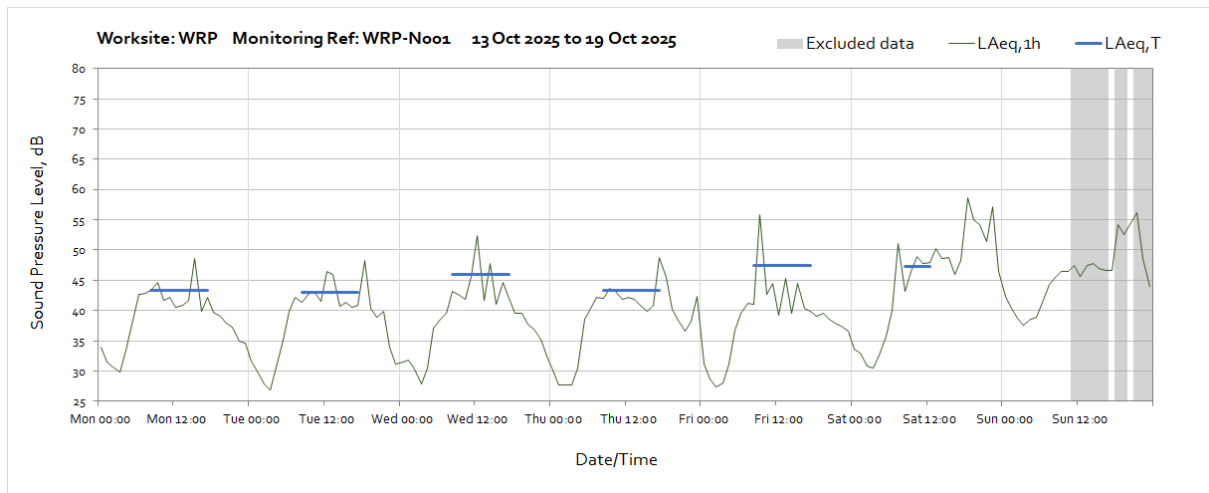


Note: Missing data between 14:00 and 16:00 on Tuesday 21st October was due to field calibration and maintenance. Missing data between 02:00 and 03:00 on Sunday 26th October was due to a monitor time adjustment at the end of British Summer Time.

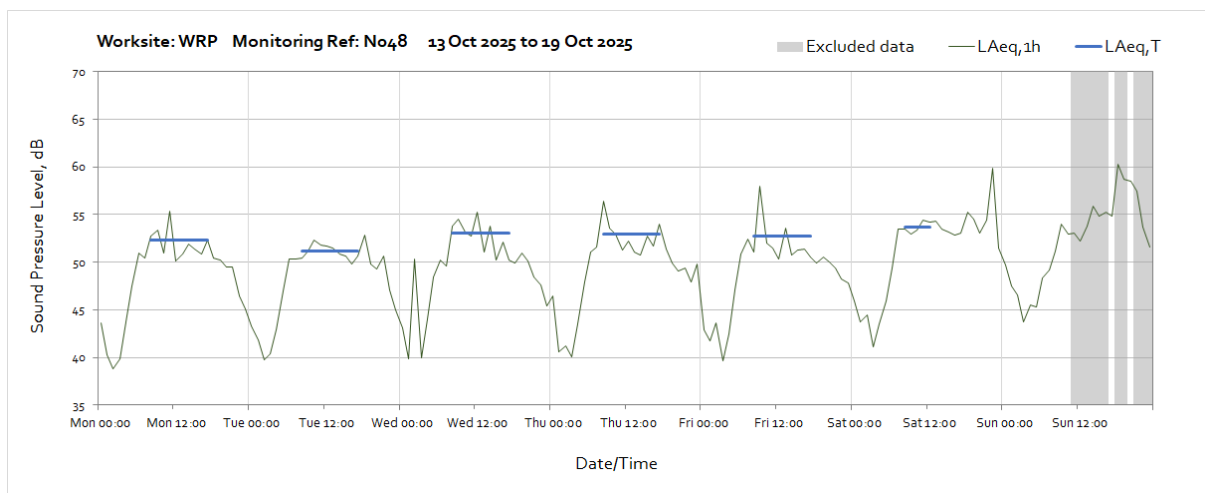
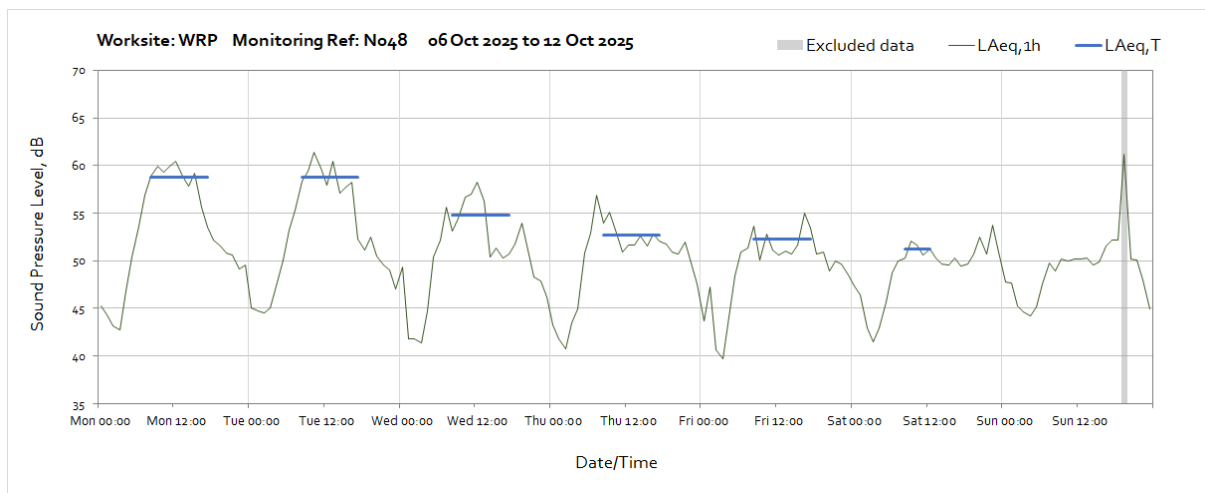
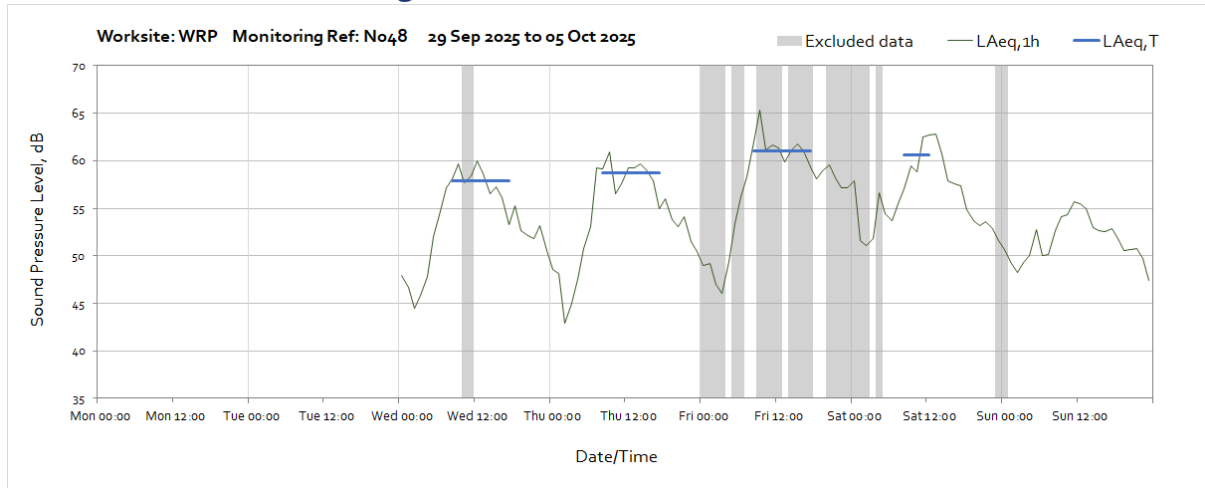


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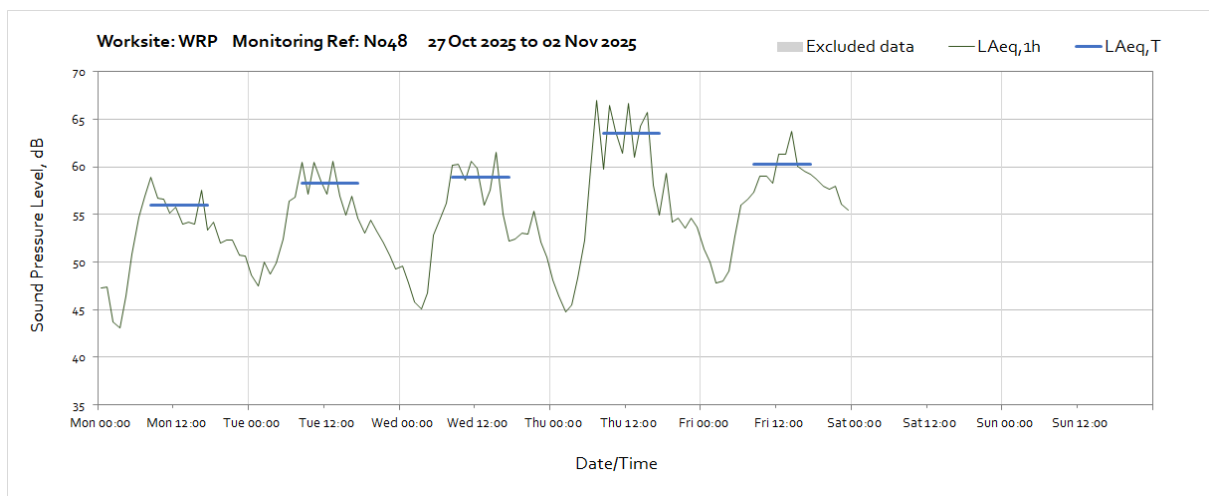
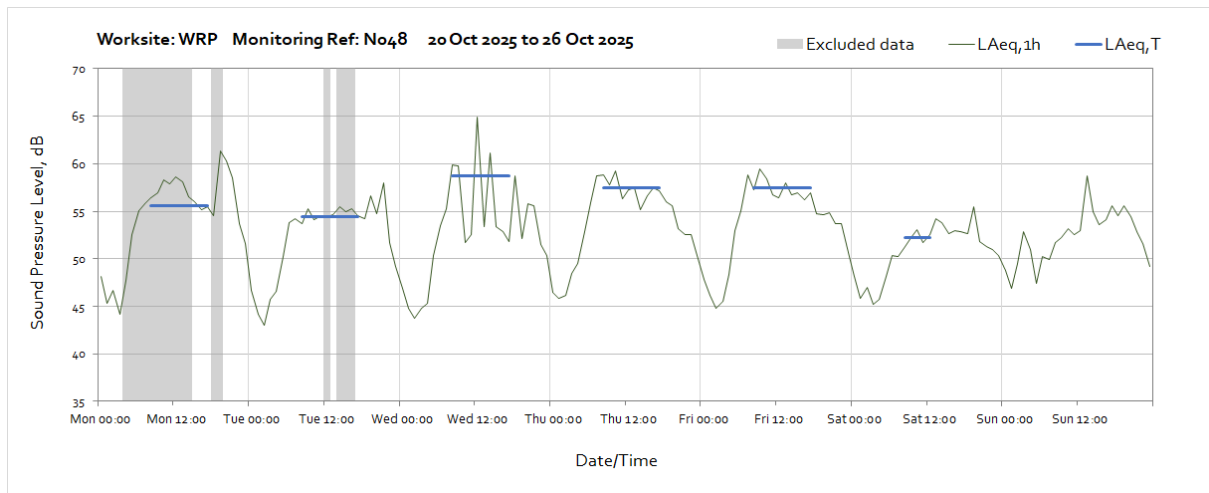




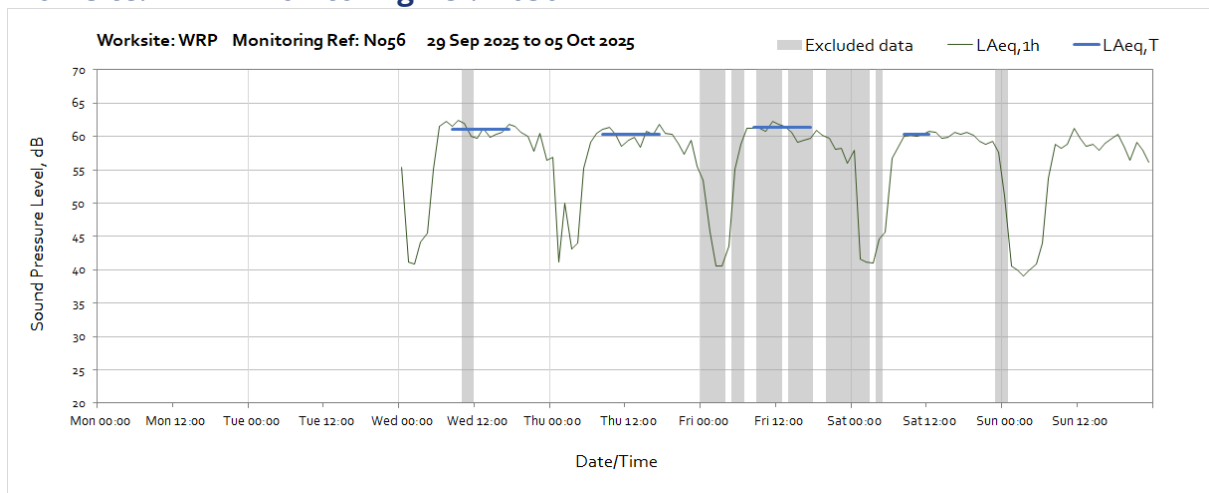
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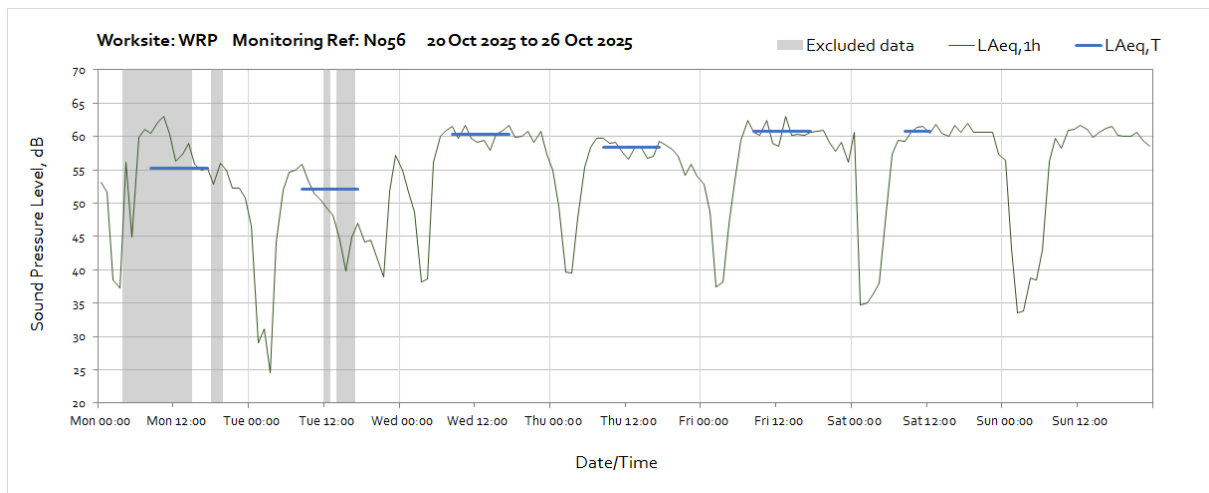
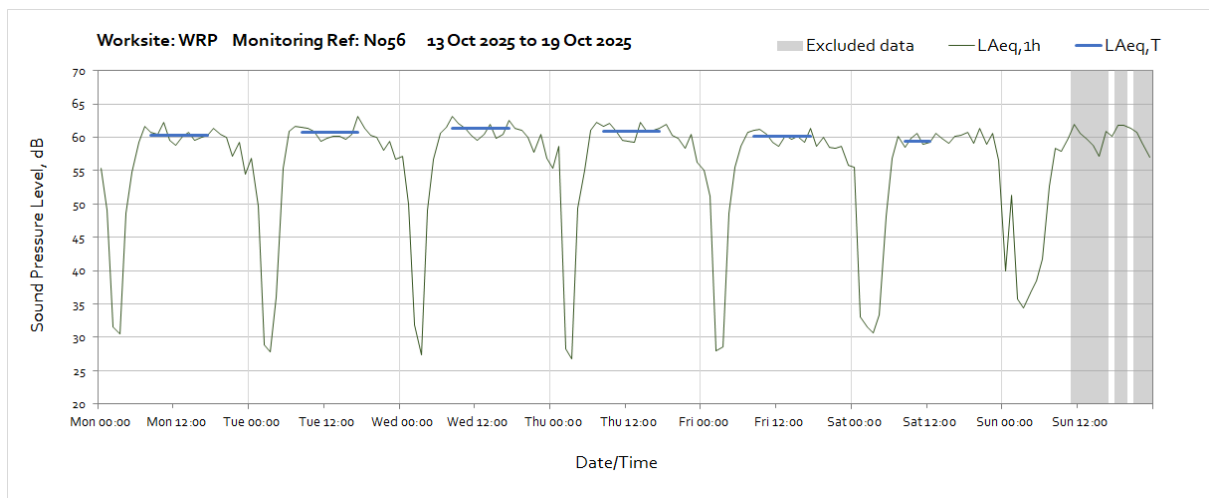
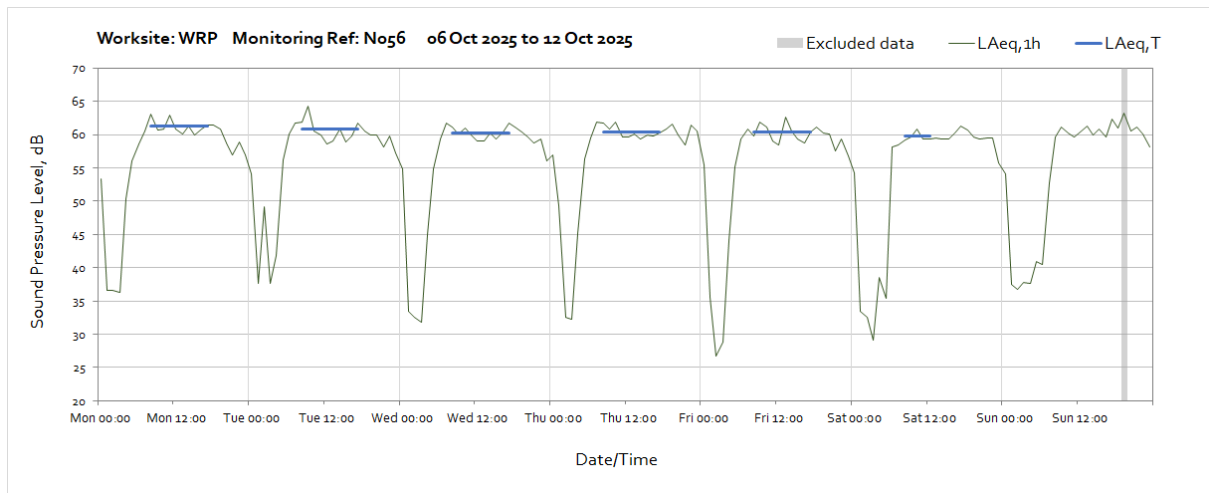


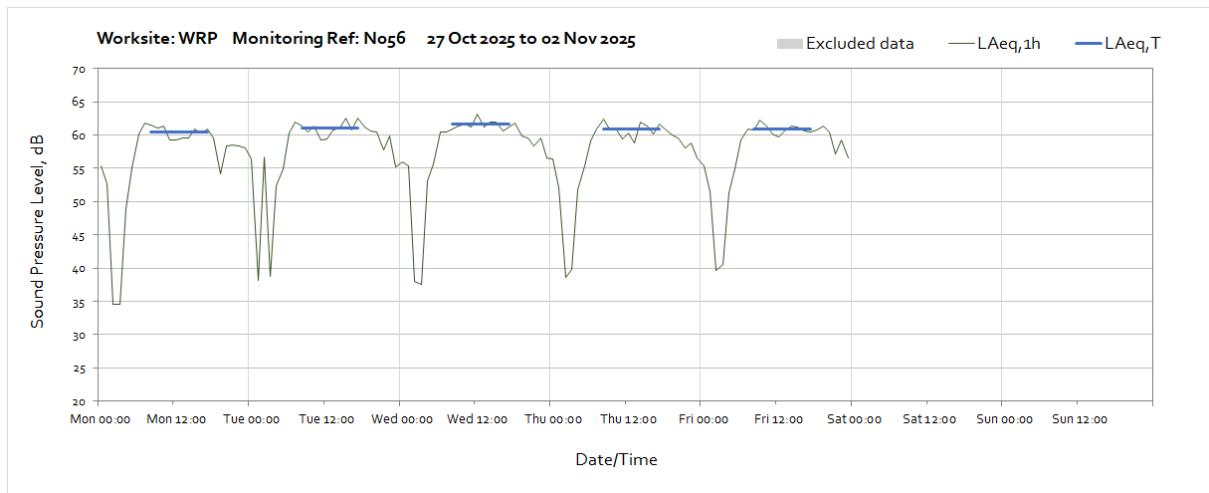
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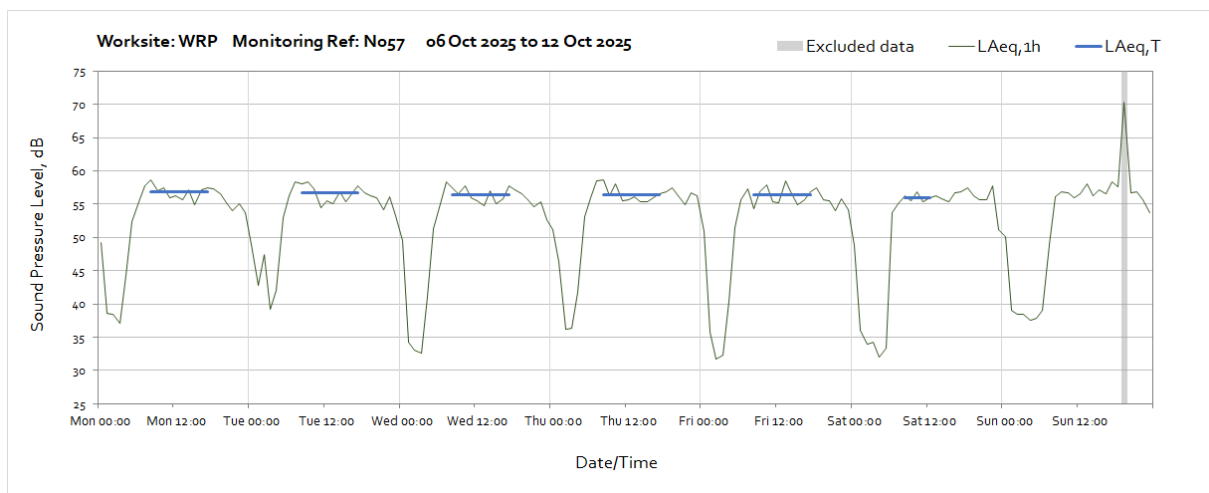
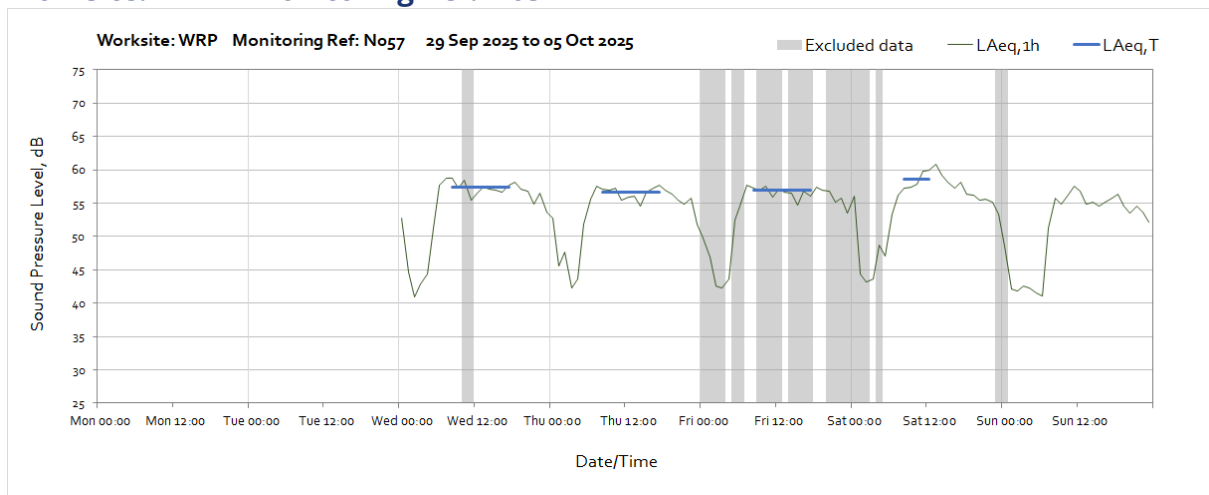
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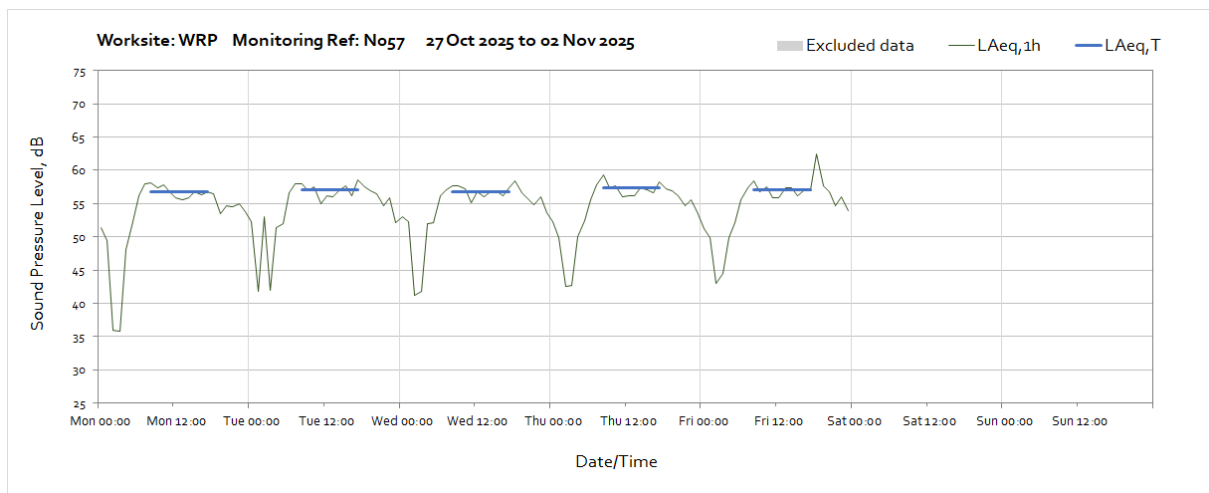
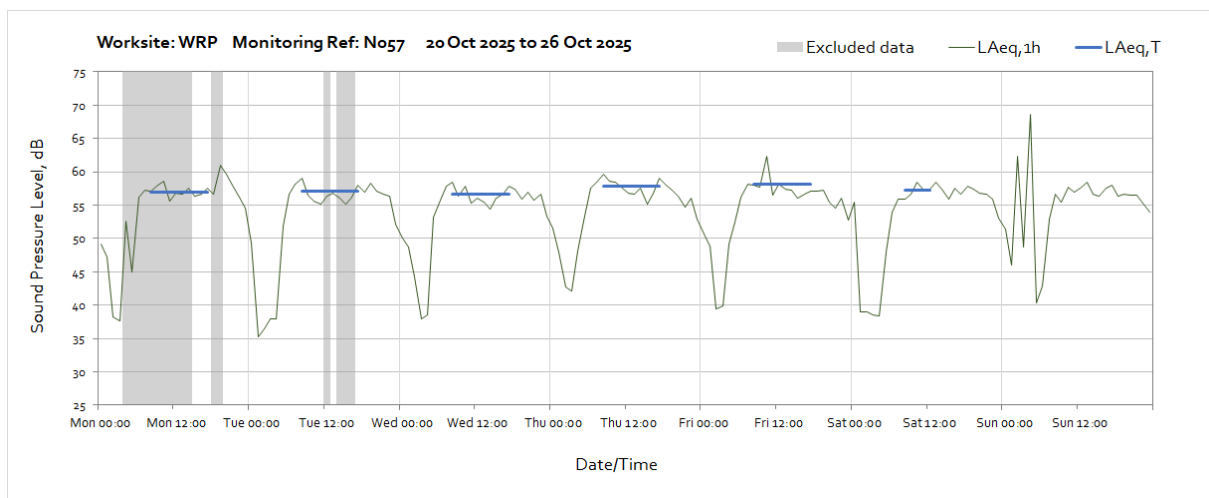
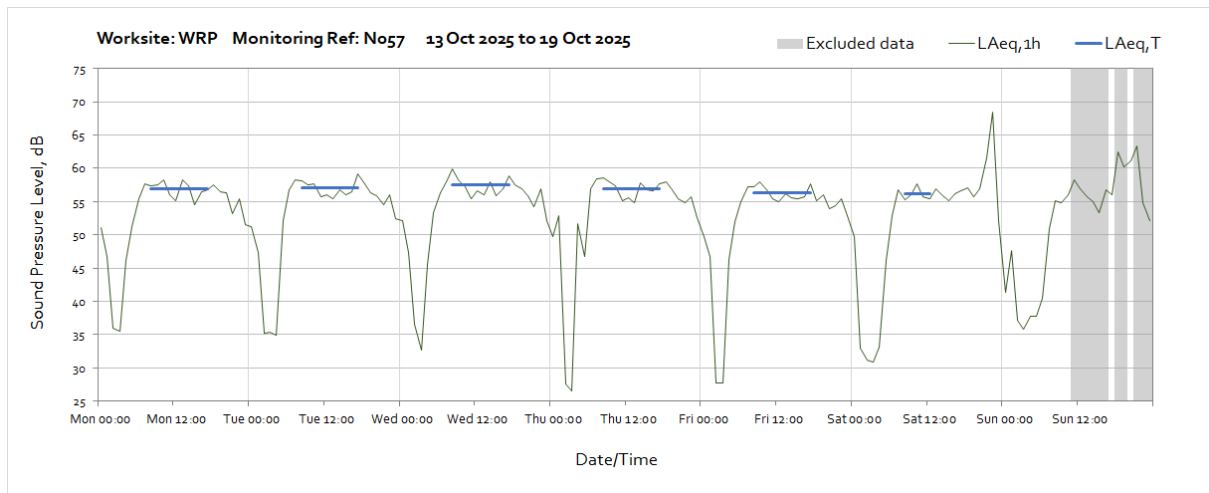




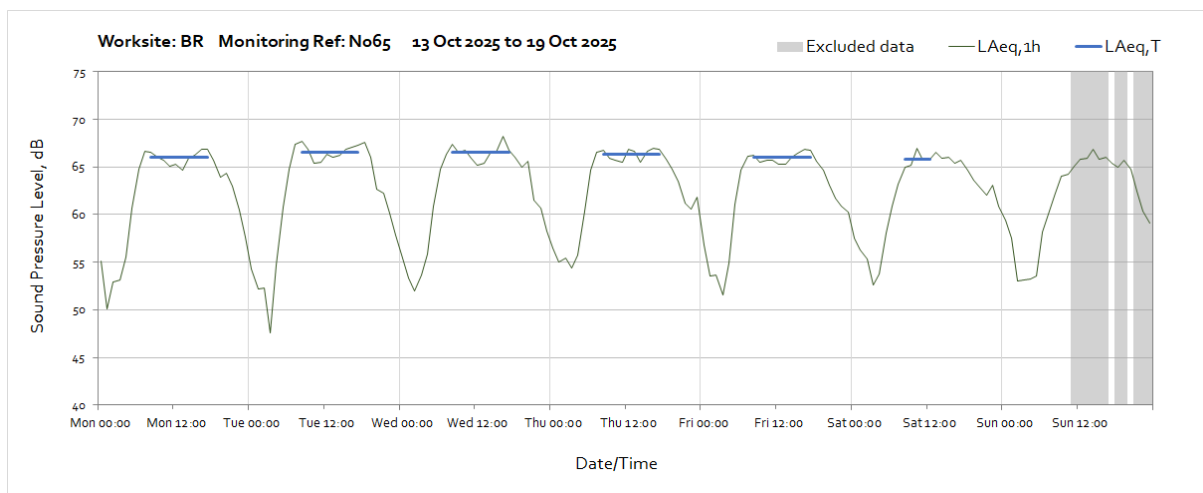
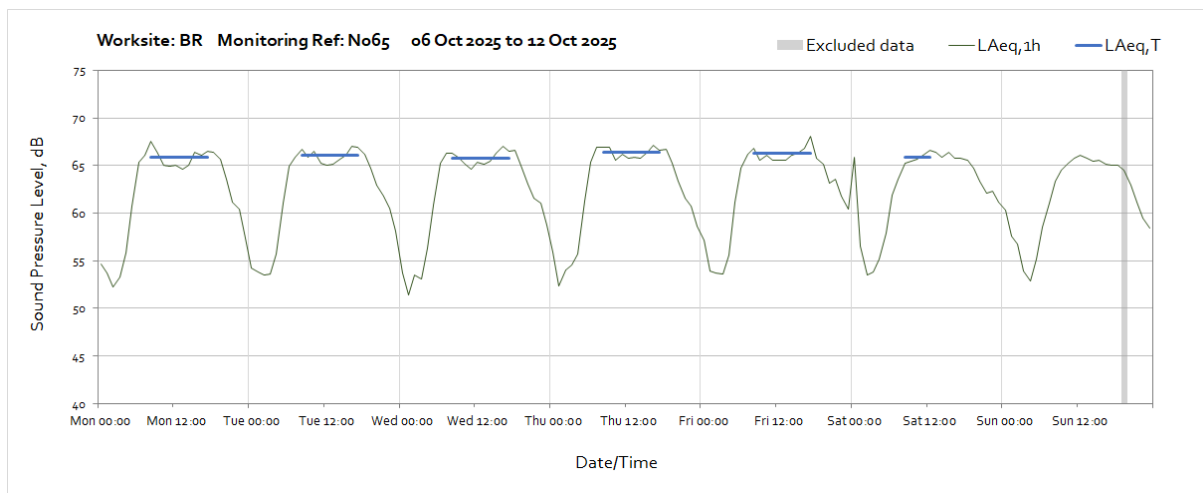
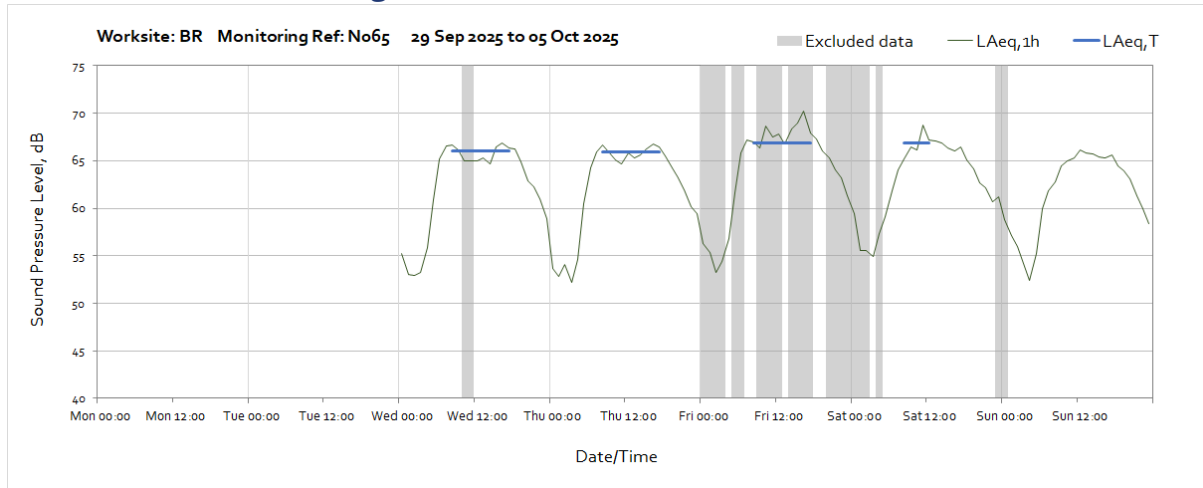


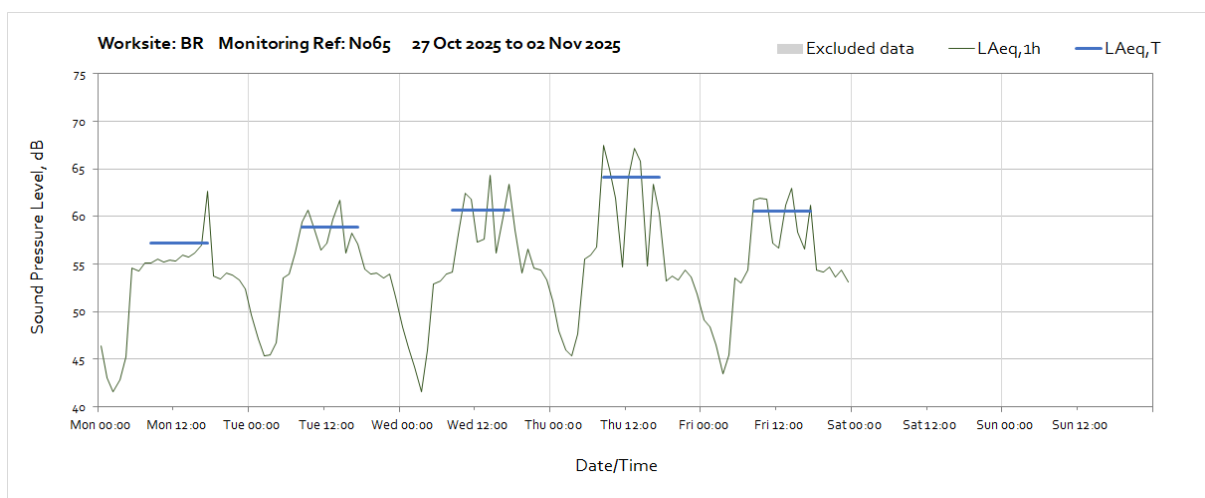
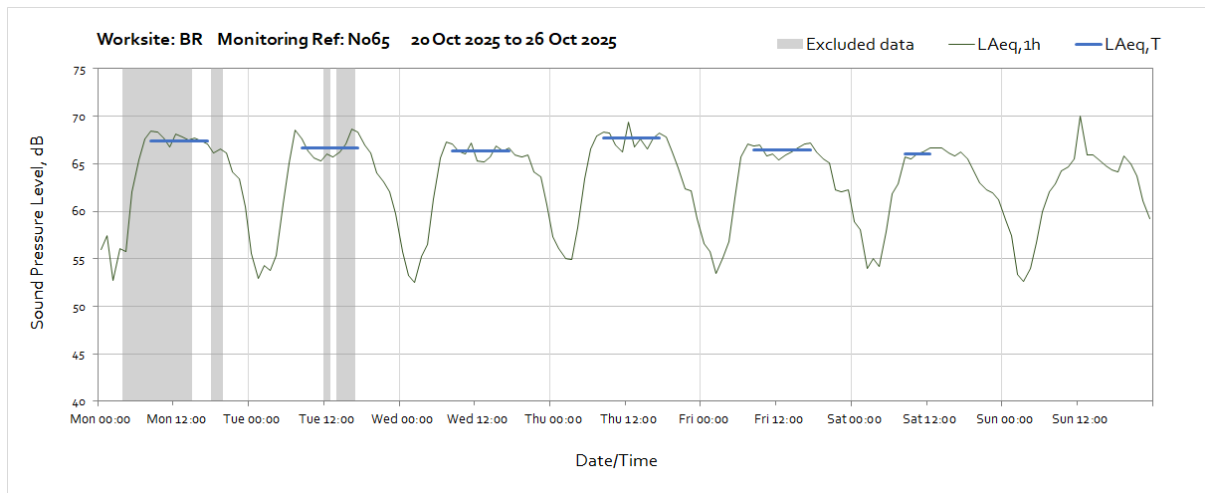
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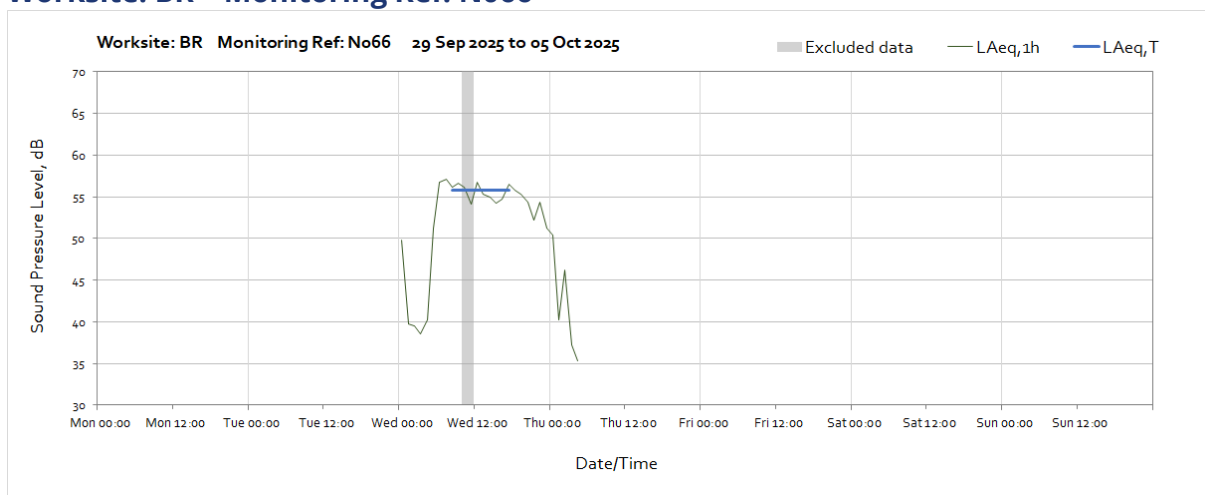


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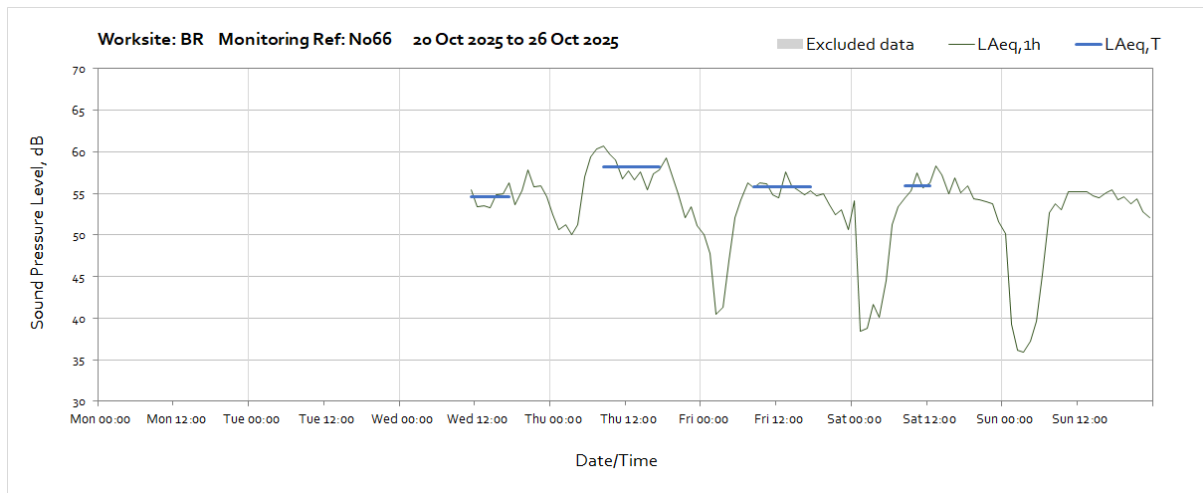




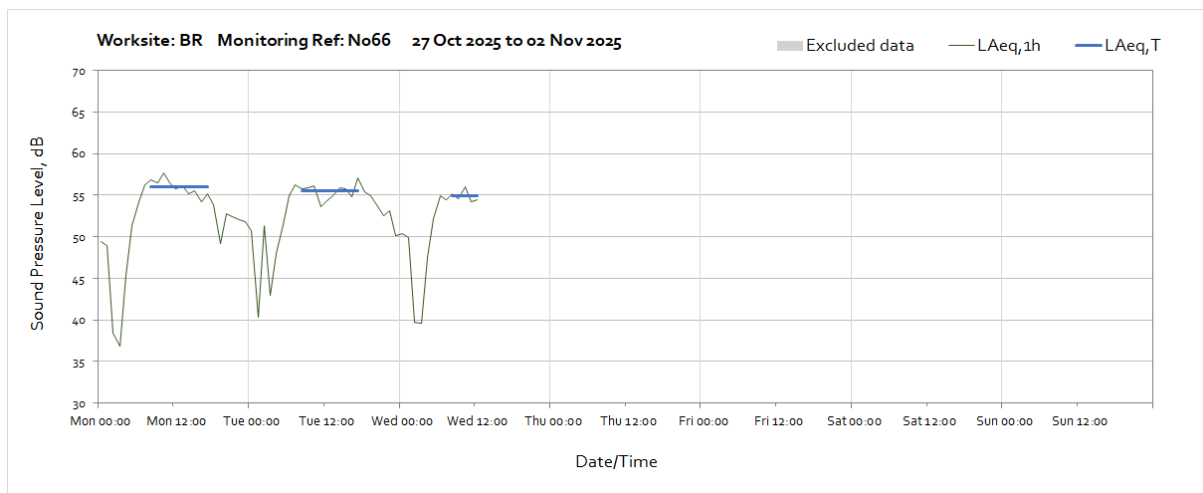
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Note: Missing data between 05:00 on Tuesday 2nd October and 11:00 on Wednesday 22nd October was due to loss of power caused by insufficient sunlight reaching the solar panels.

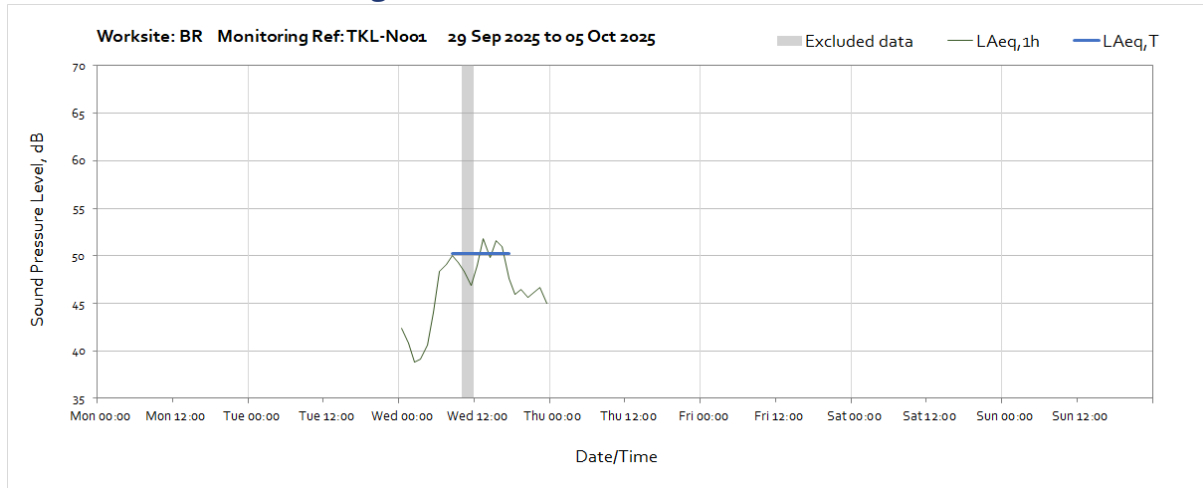


Note: Missing data between 05:00 on Tuesday 2nd October and 11:00 on Wednesday 22nd October was due to loss of power caused by insufficient sunlight reaching the solar panels.

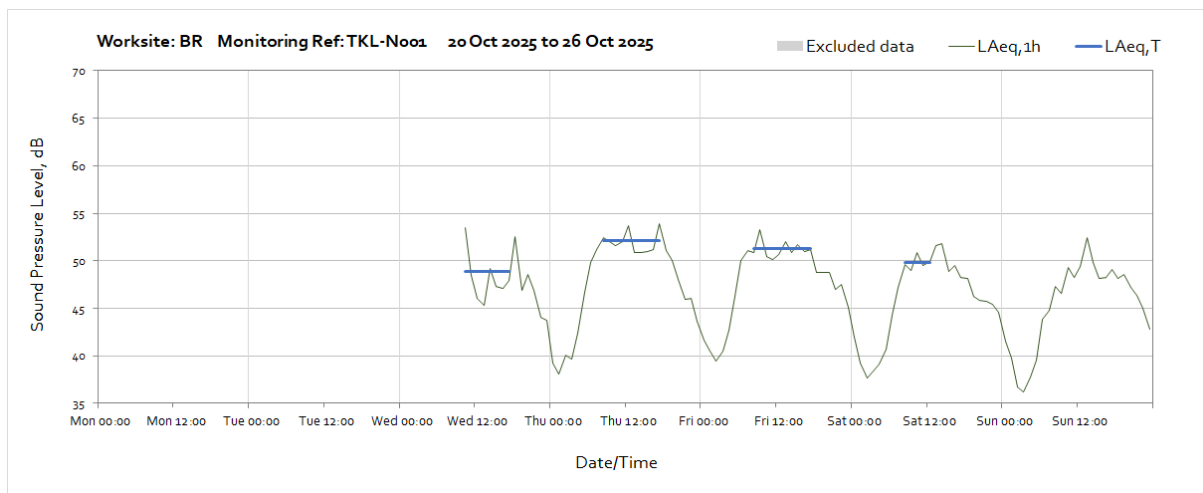


Note: Missing data between 13:00 on Wednesday 29th October and month end was due to loss of power caused by insufficient sunlight reaching the solar panels. An alternative location for this monitor is being considered.

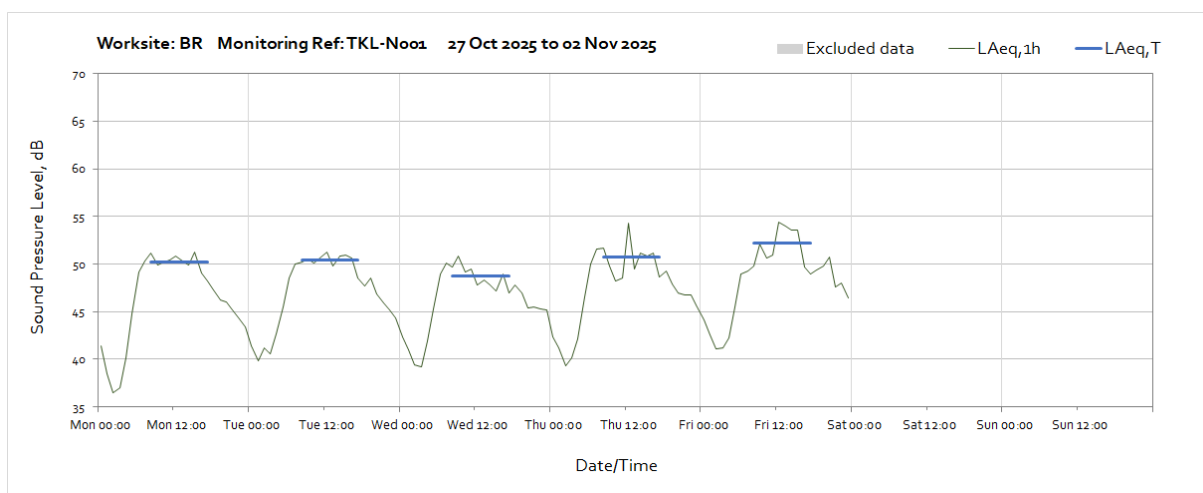
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Note: Missing data between 00:00 on Tuesday 2nd October and 10:00 on Wednesday 22nd October was due to loss of power caused by insufficient sunlight reaching the solar panels.

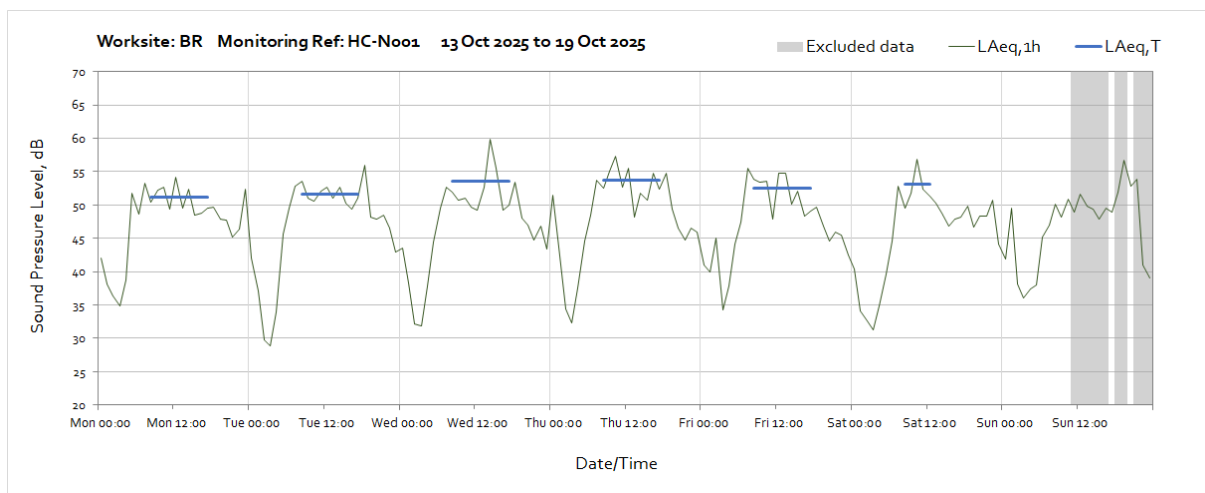
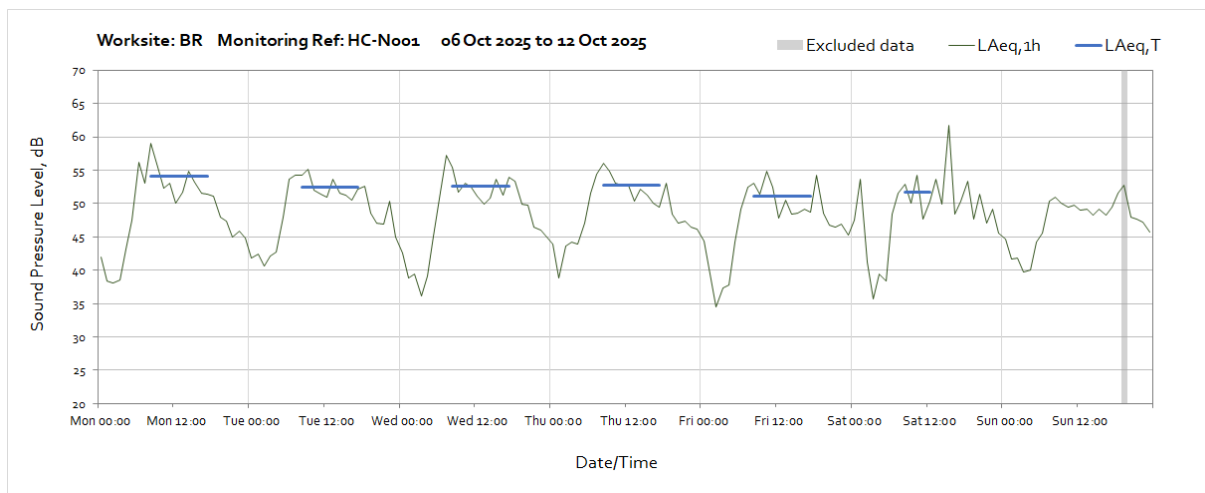
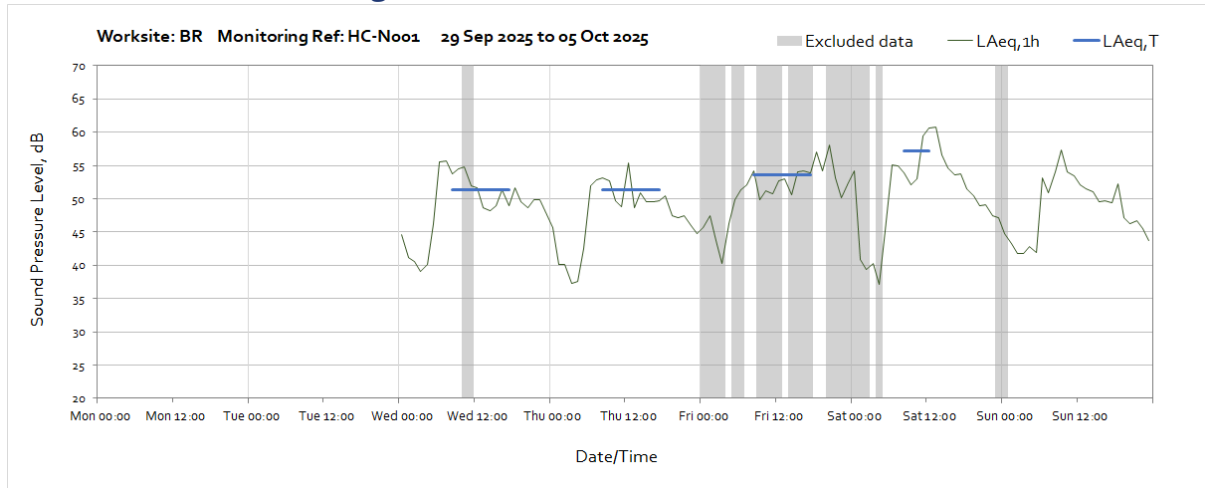


Note: Missing data between 00:00 on Tuesday 2nd October and 10:00 on Wednesday 22nd October was due to loss of power caused by insufficient sunlight reaching the solar panels.

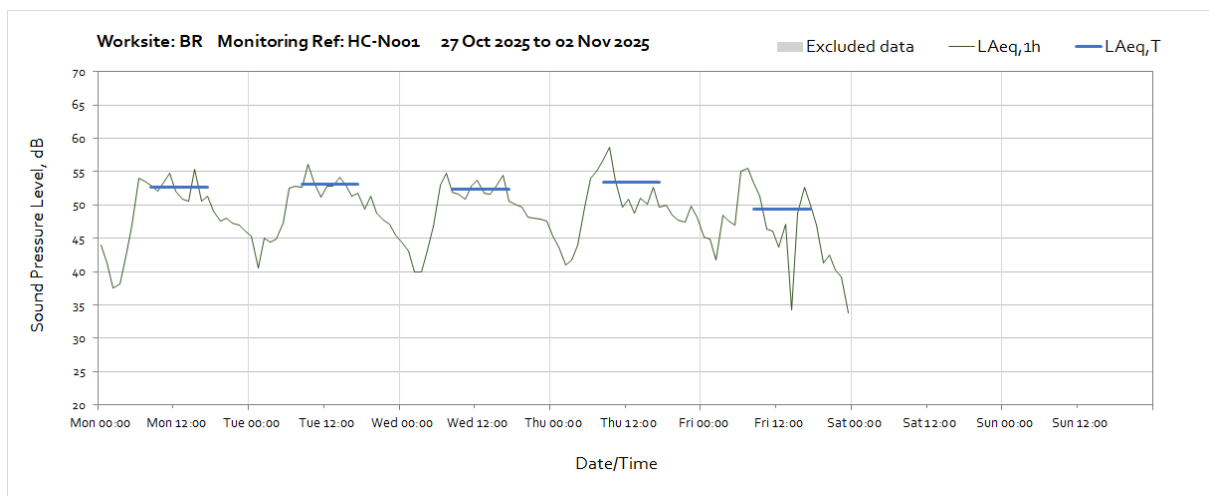
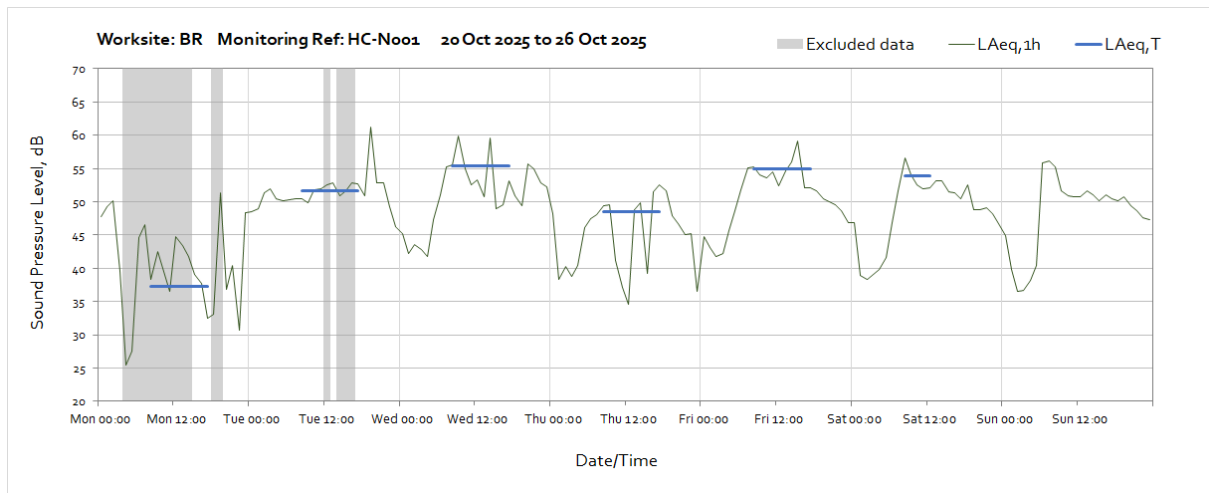


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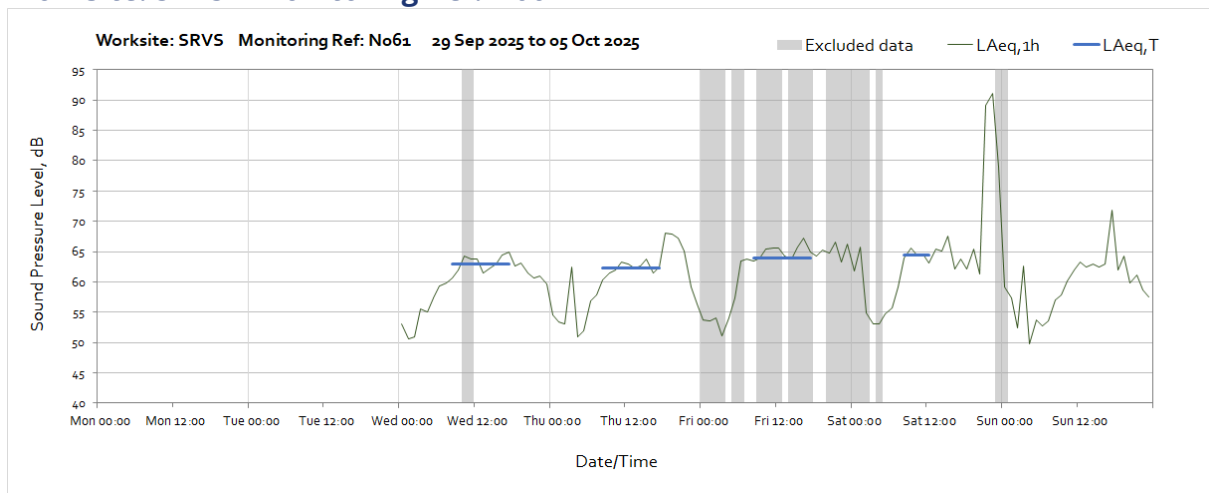
Worksite: BR – Monitoring Ref: HC-N001



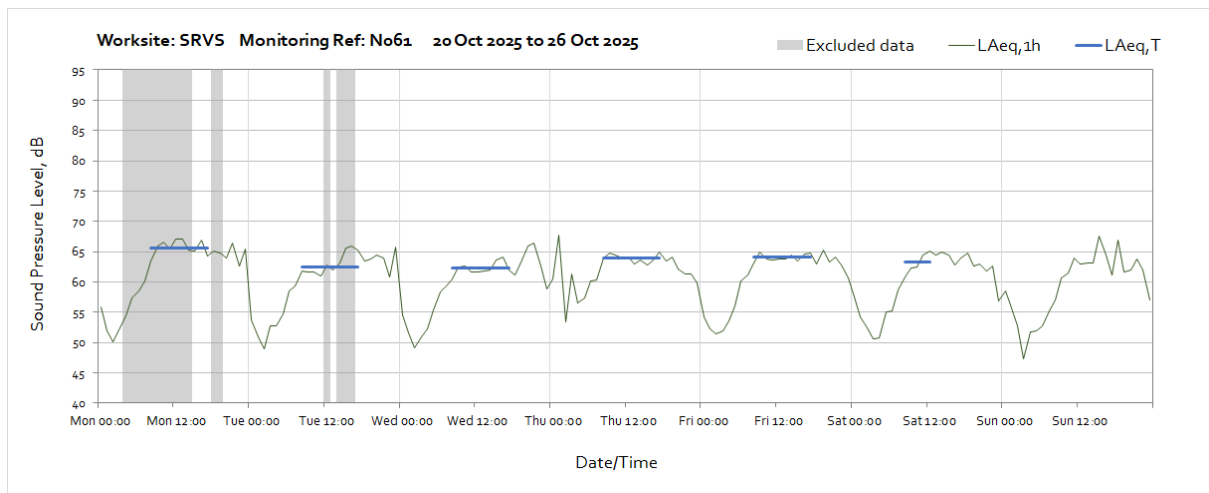
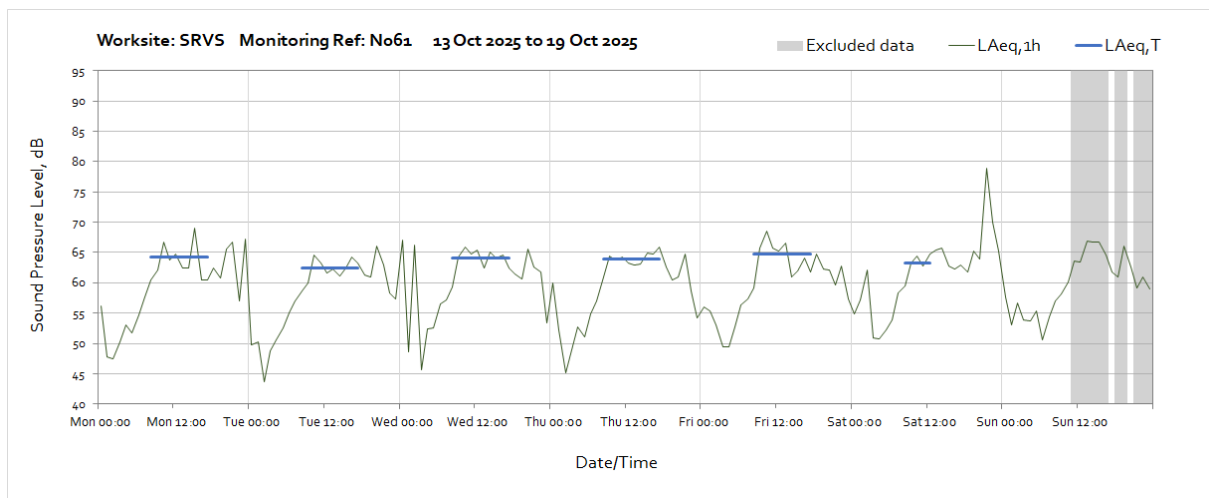
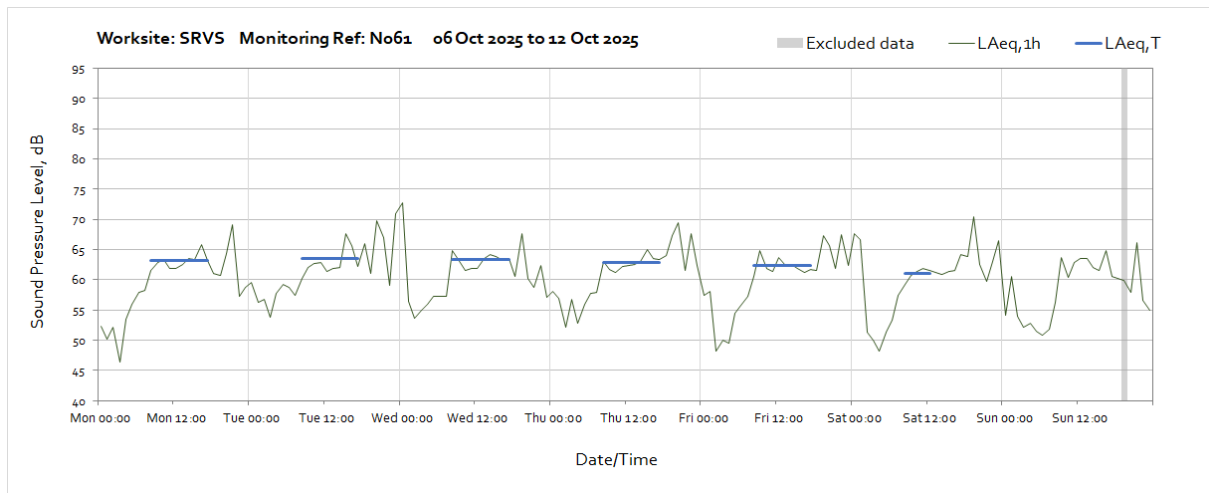
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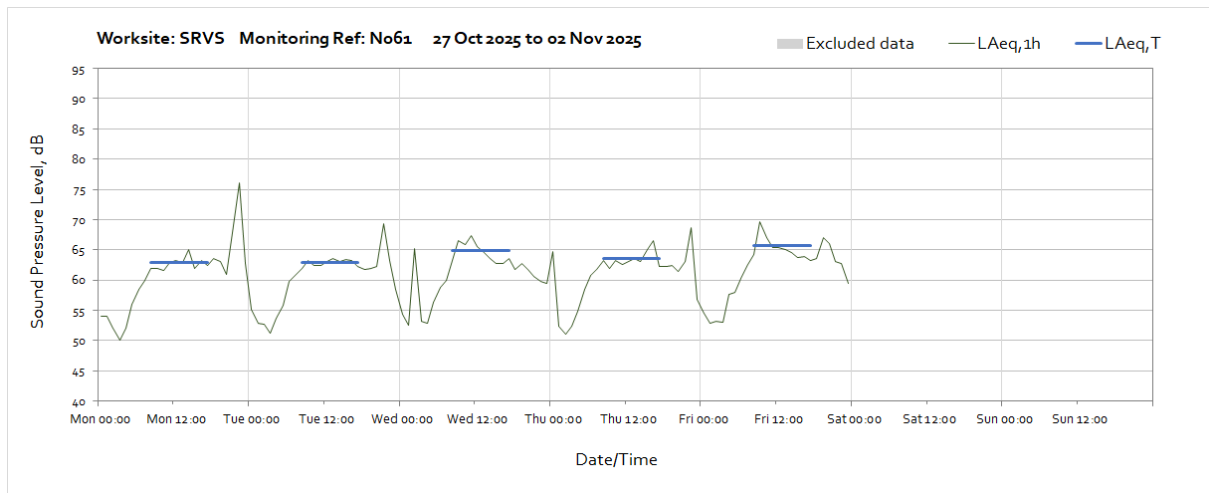


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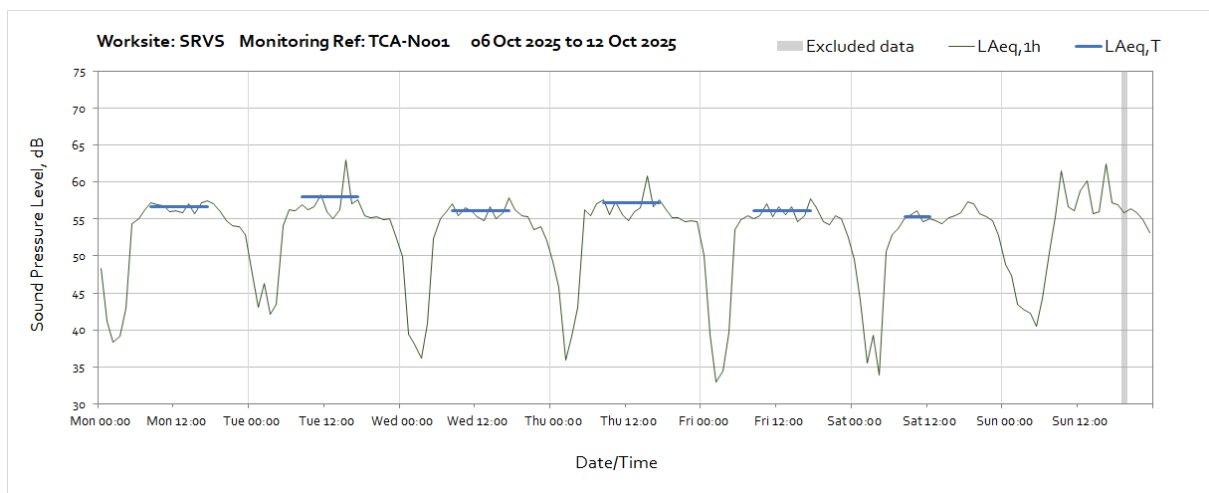
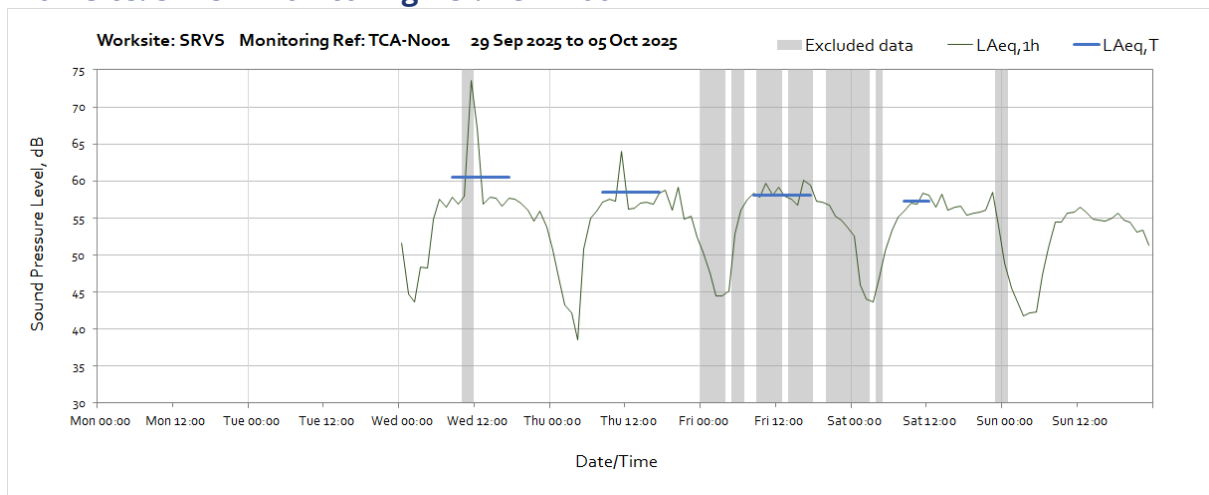


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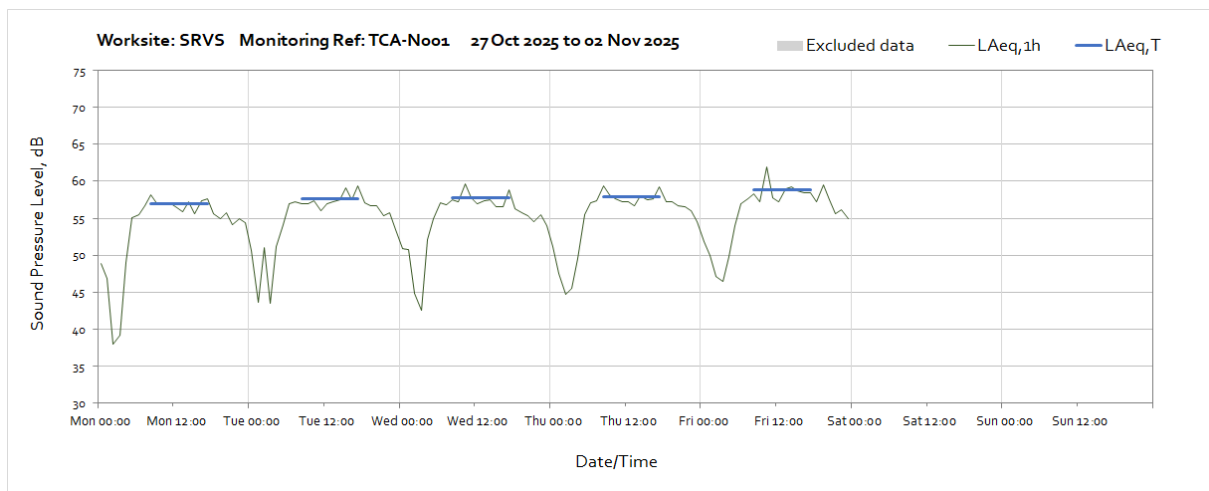
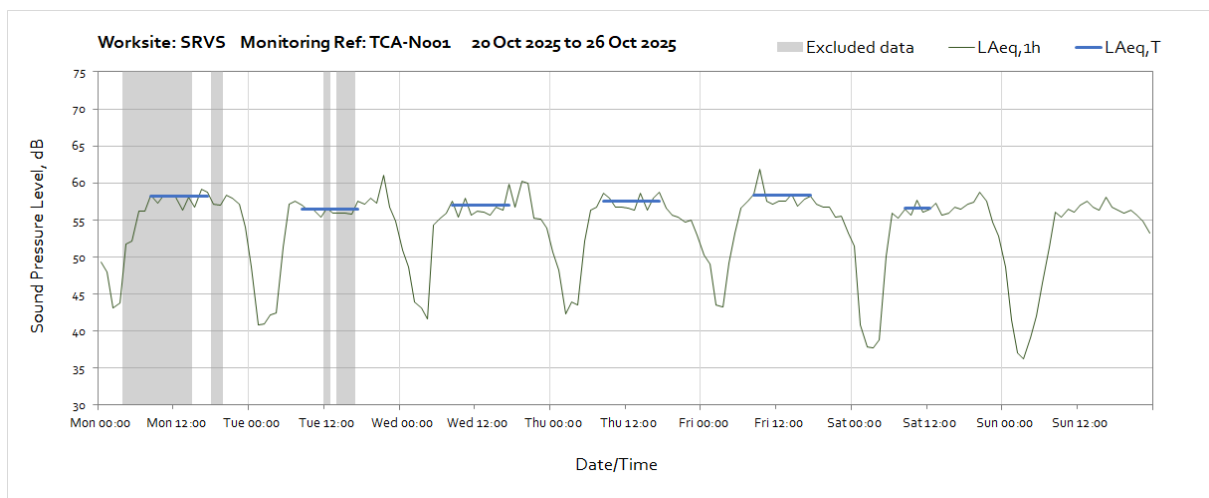
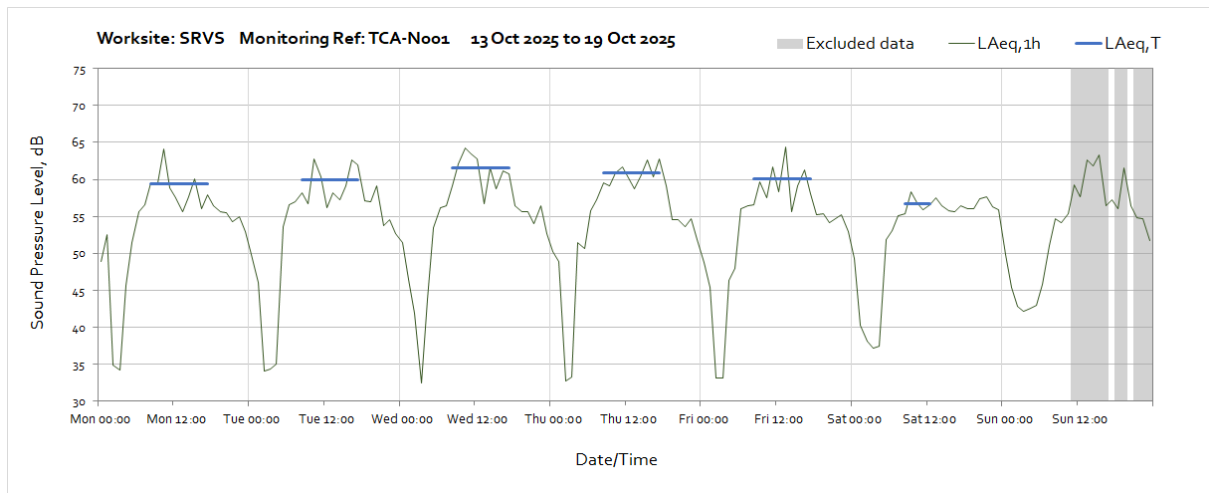




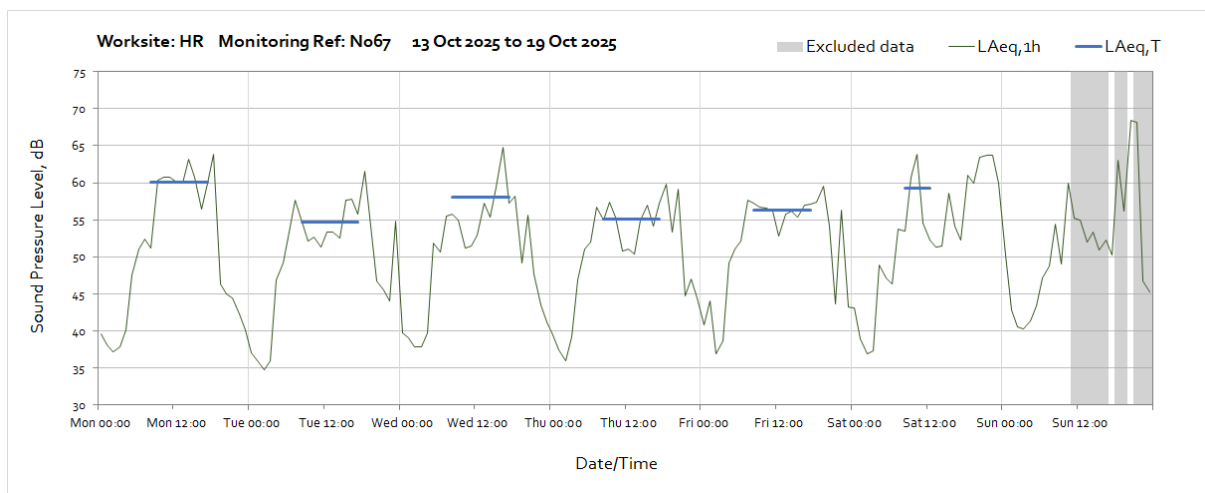
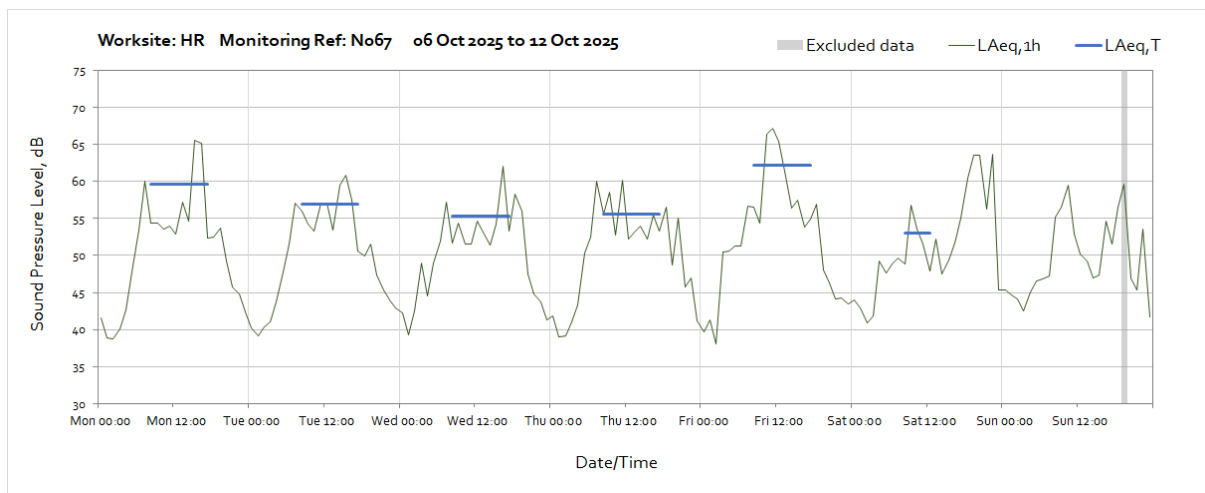
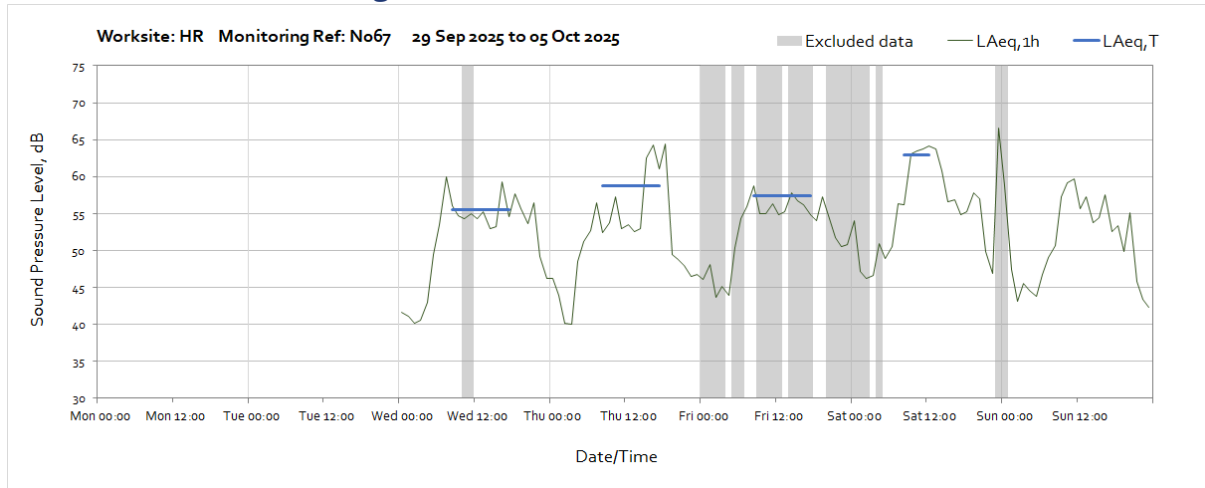
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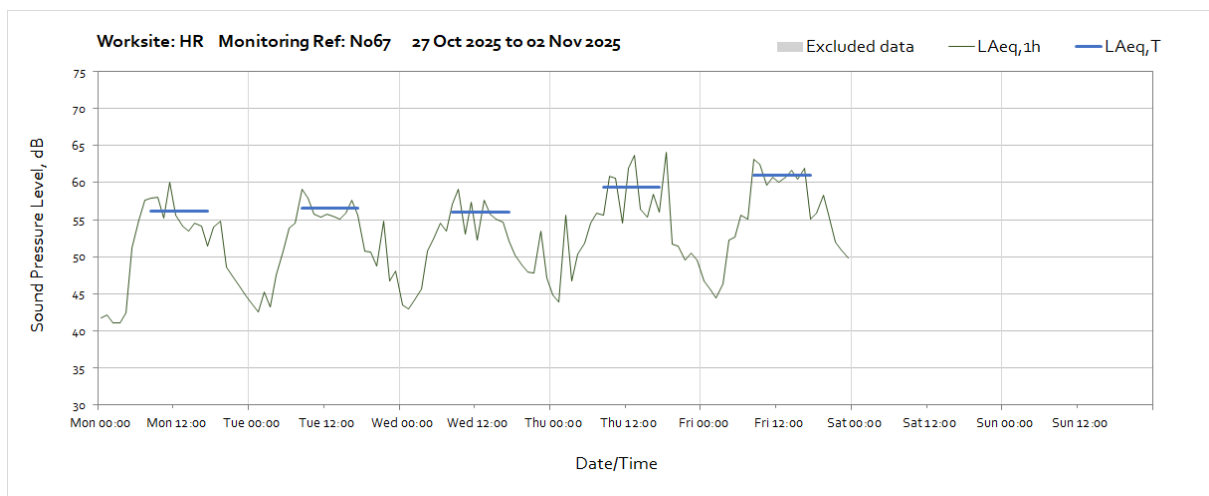
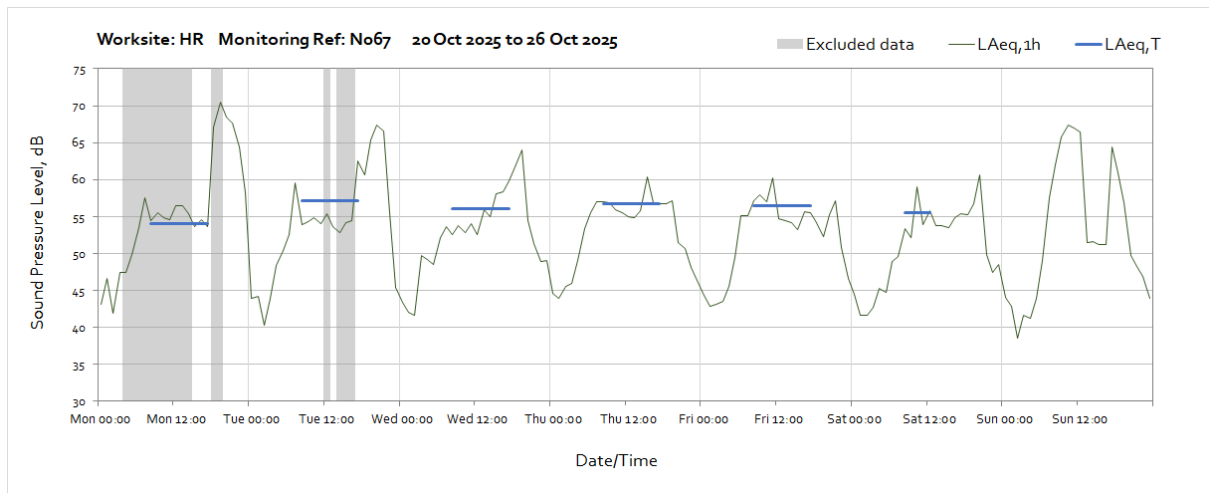
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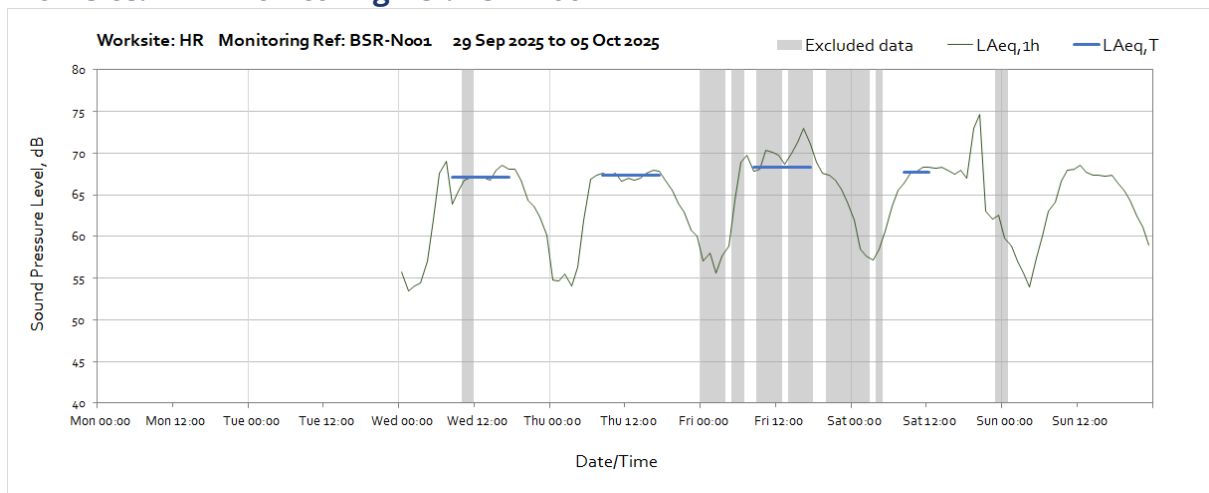
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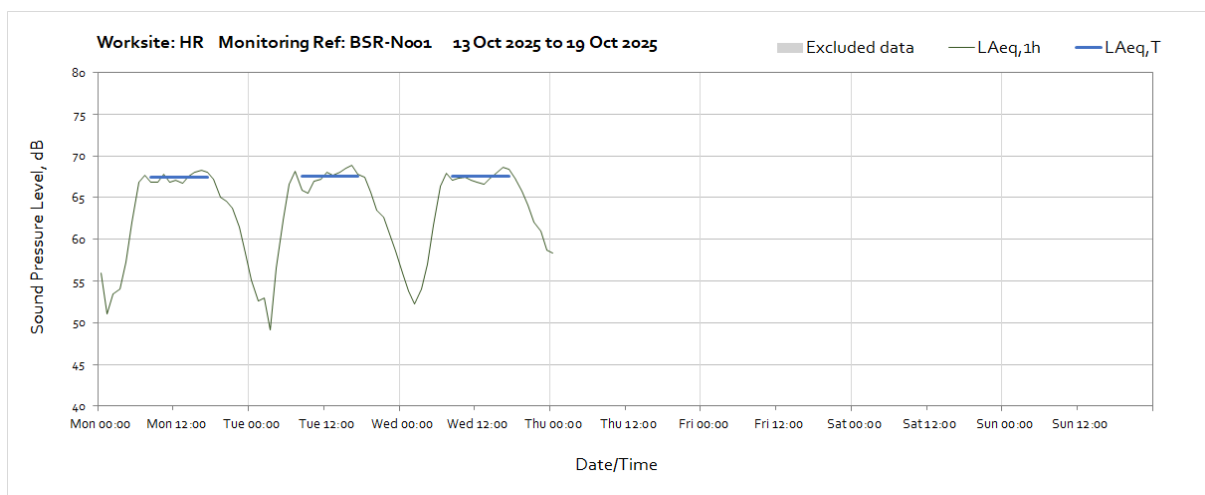
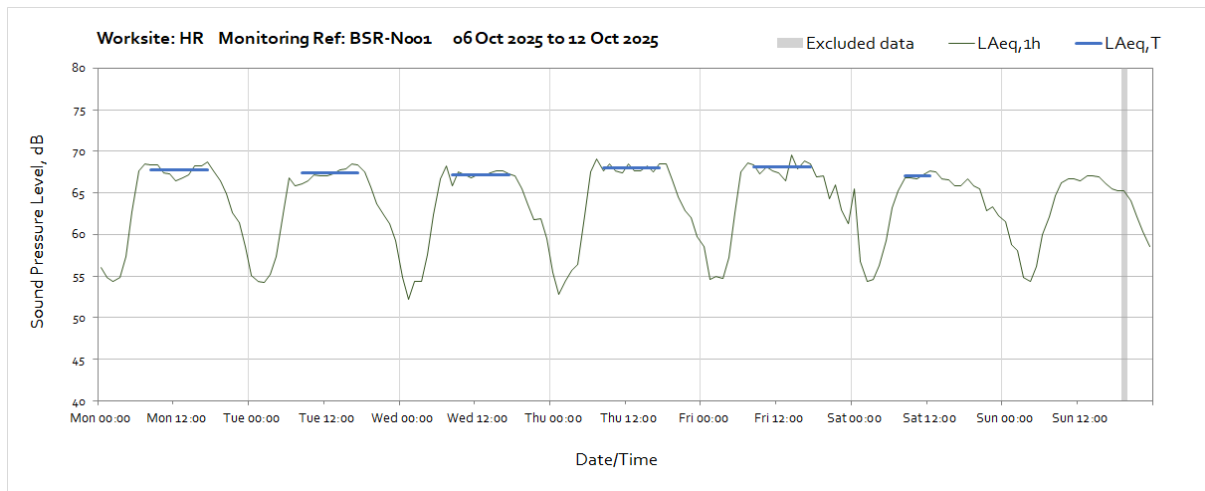


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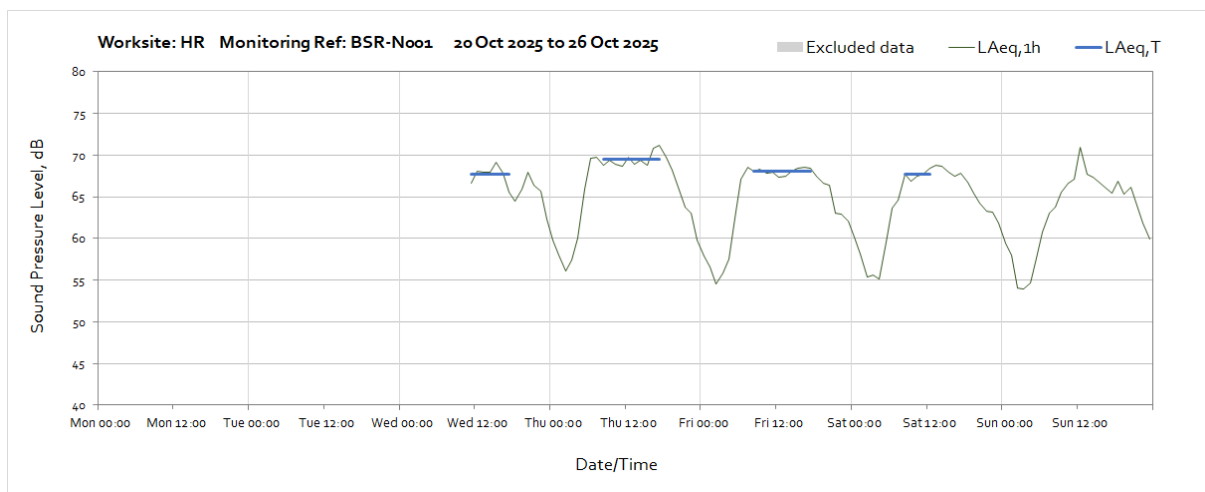


Worksite: HR – Monitoring Ref: BSR-N001

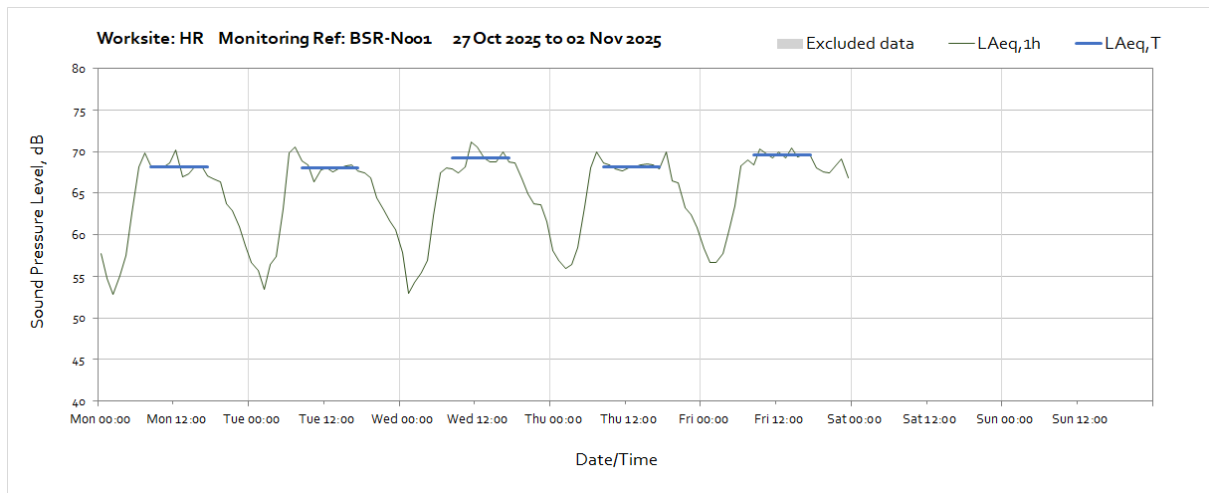




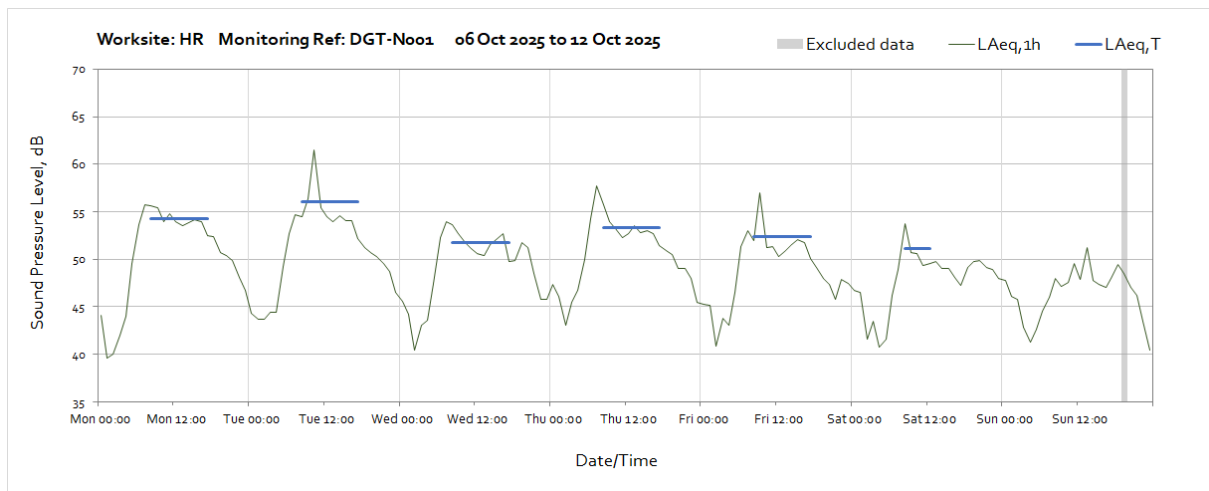
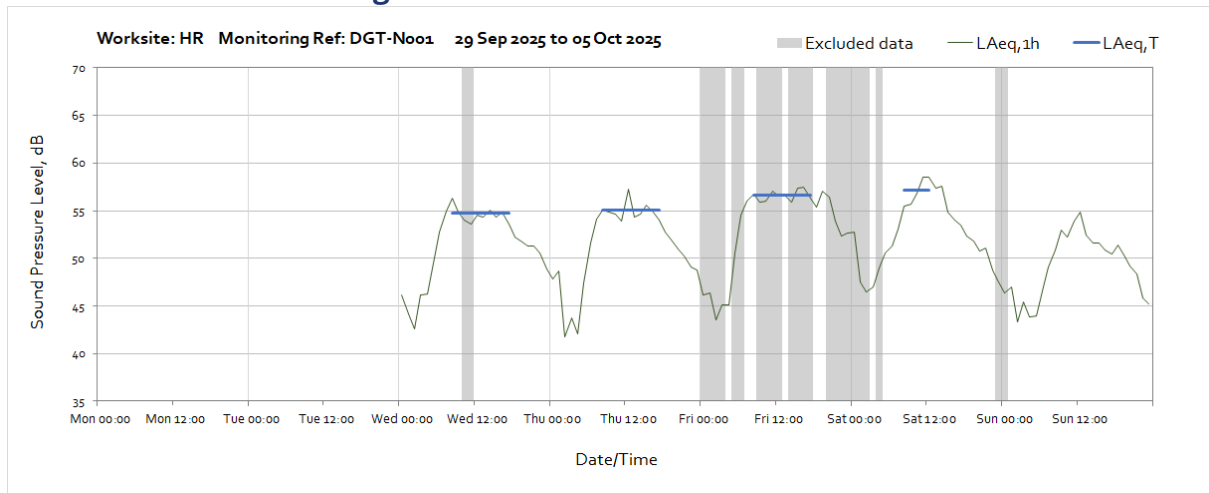
Note: Missing data between 01:00 on Thursday 16th October and 11:00 on Wednesday 22nd October was due to loss of power caused by insufficient sunlight reaching the solar panels.

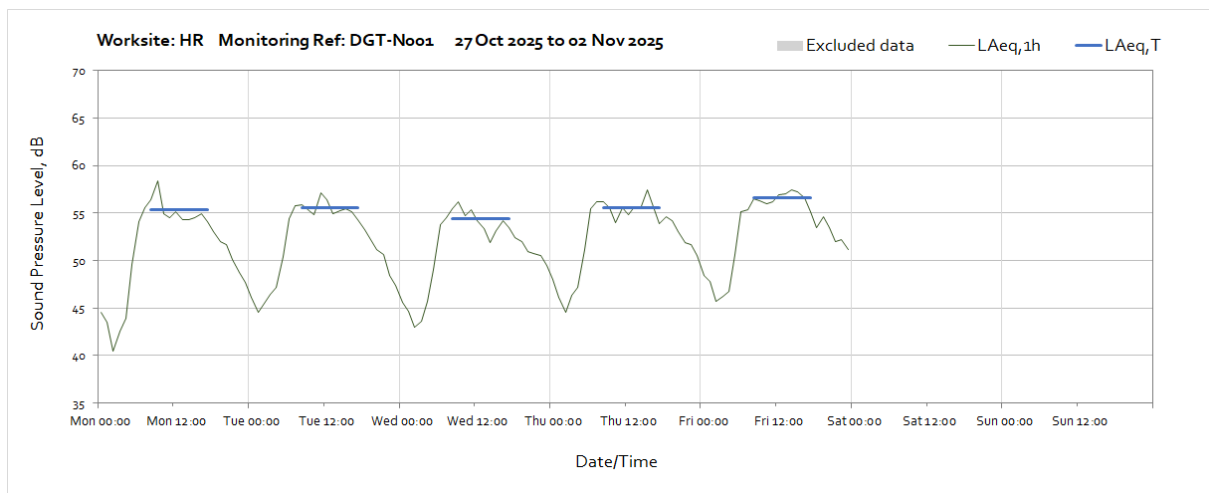
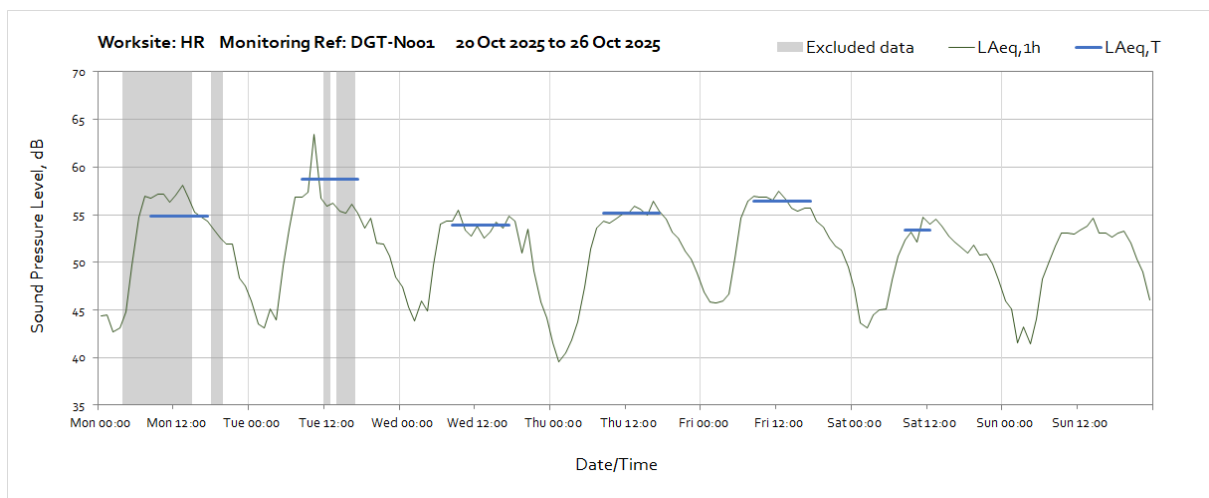
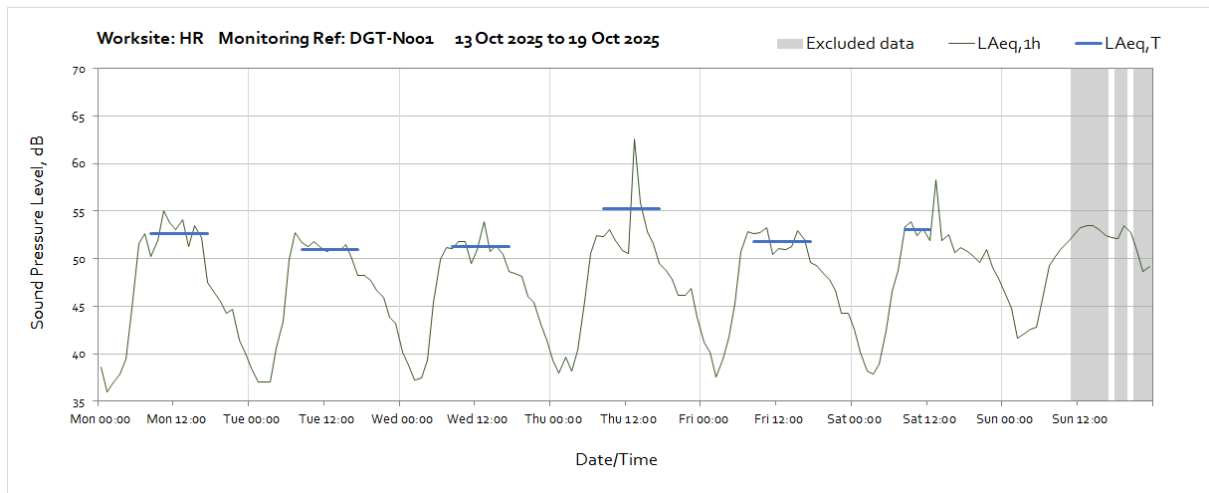


Note: Missing data between 01:00 on Thursday 16th October and 11:00 on Wednesday 22nd October was due to loss of power caused by insufficient sunlight reaching the solar panels.

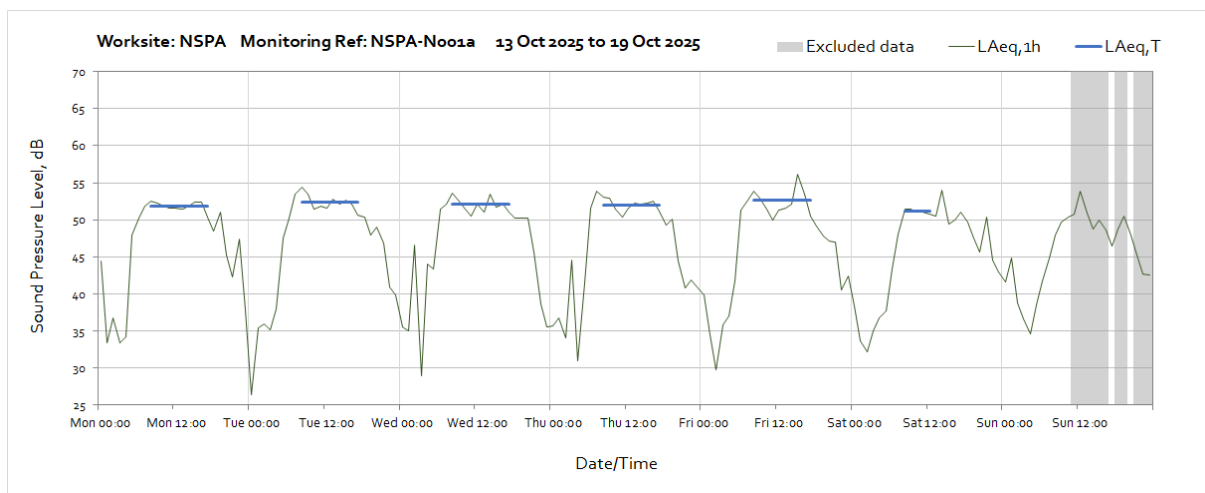
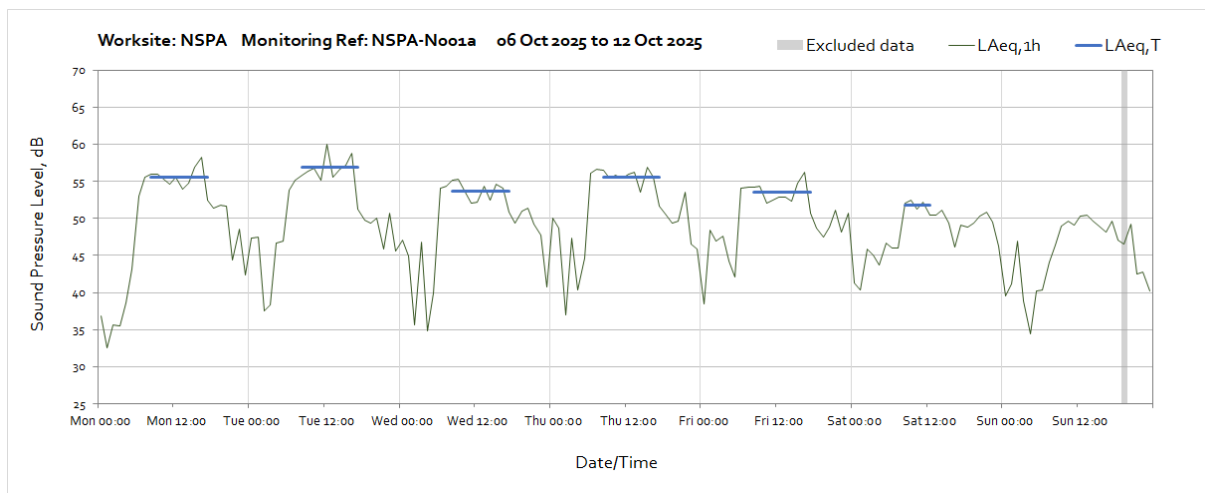
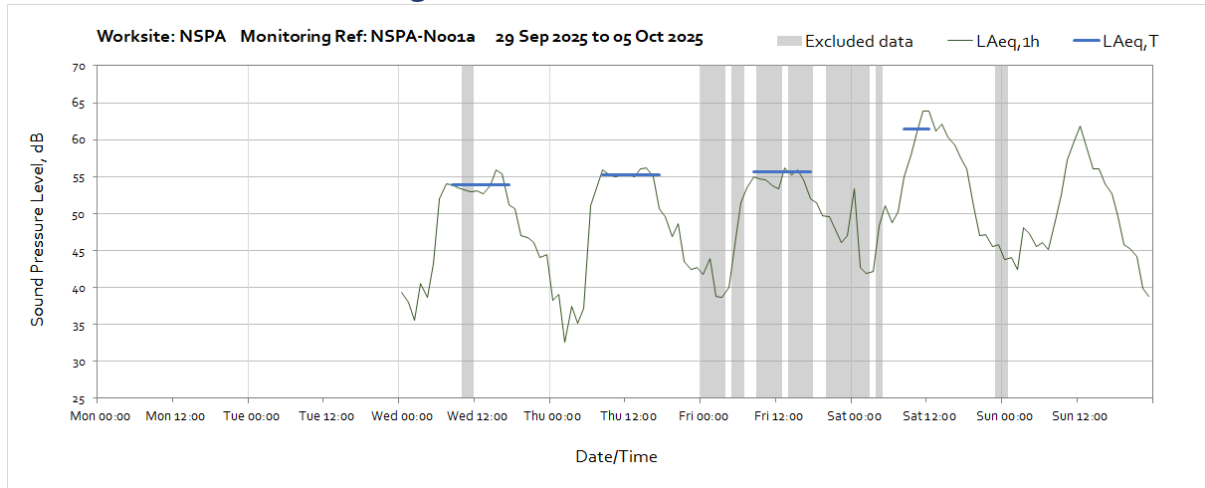


Worksite: HR – Monitoring Ref: DGT-N001

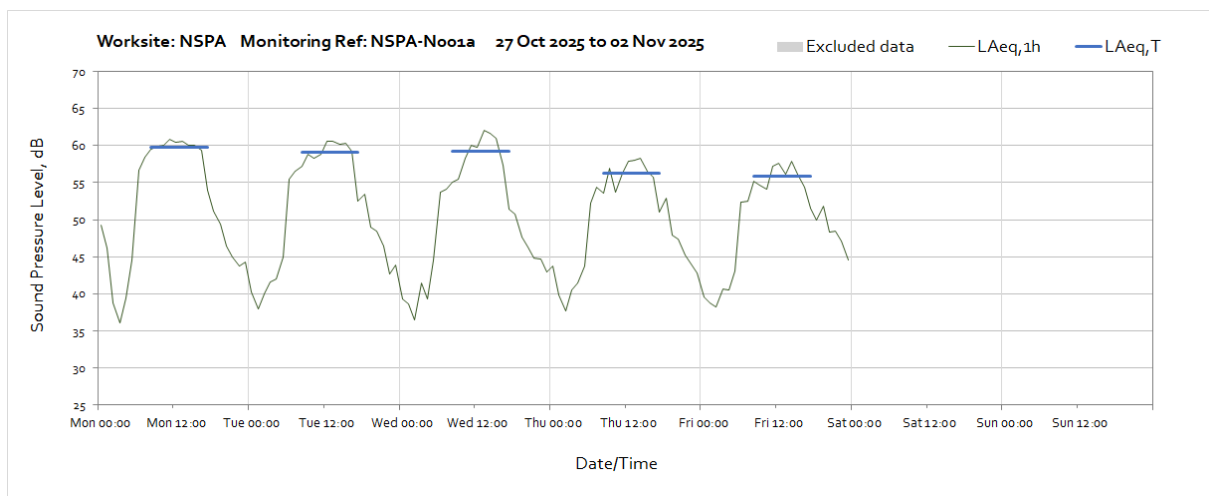
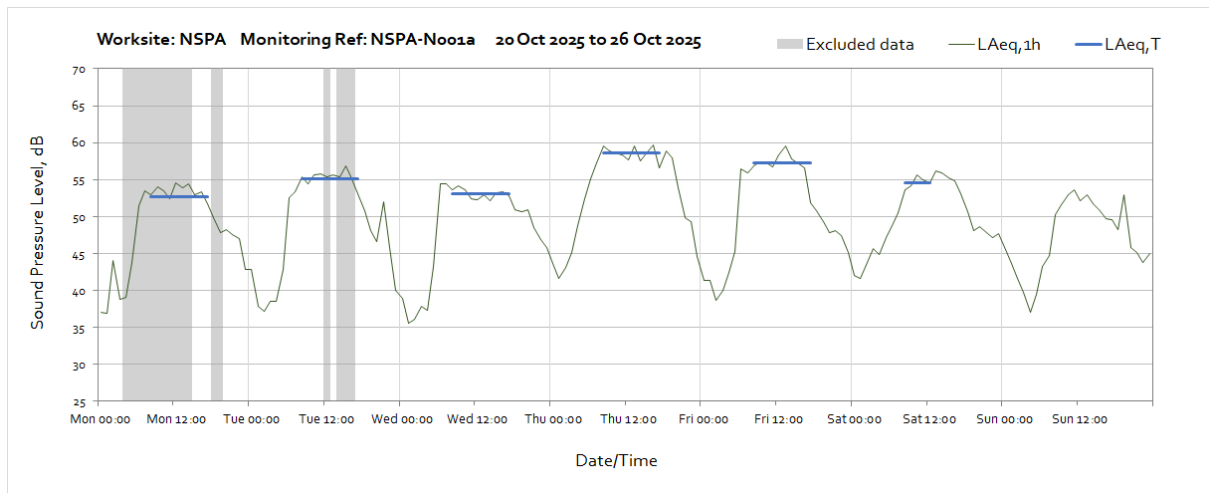




Worksite: NSPA – Monitoring Ref: NSPA-N001a



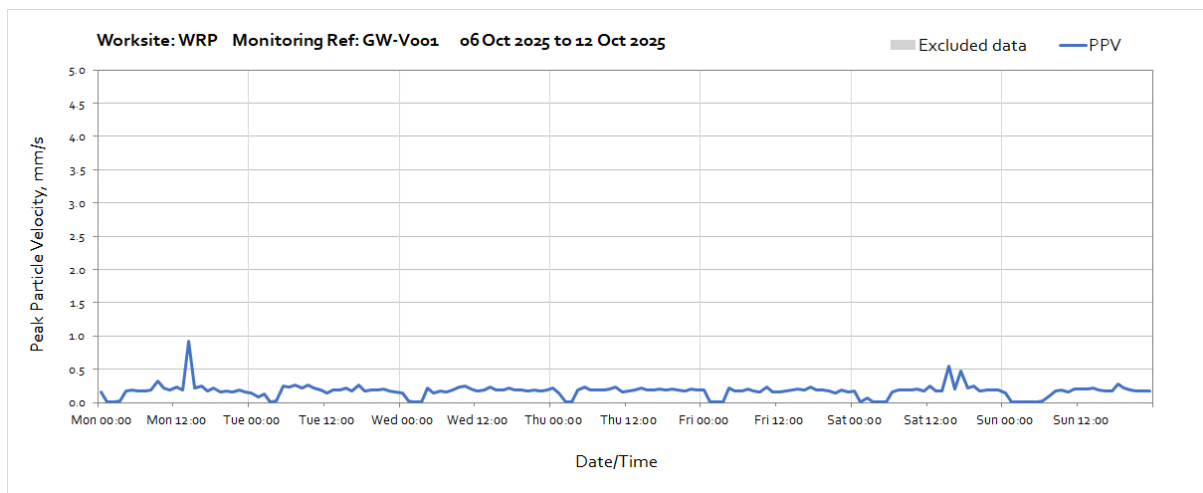
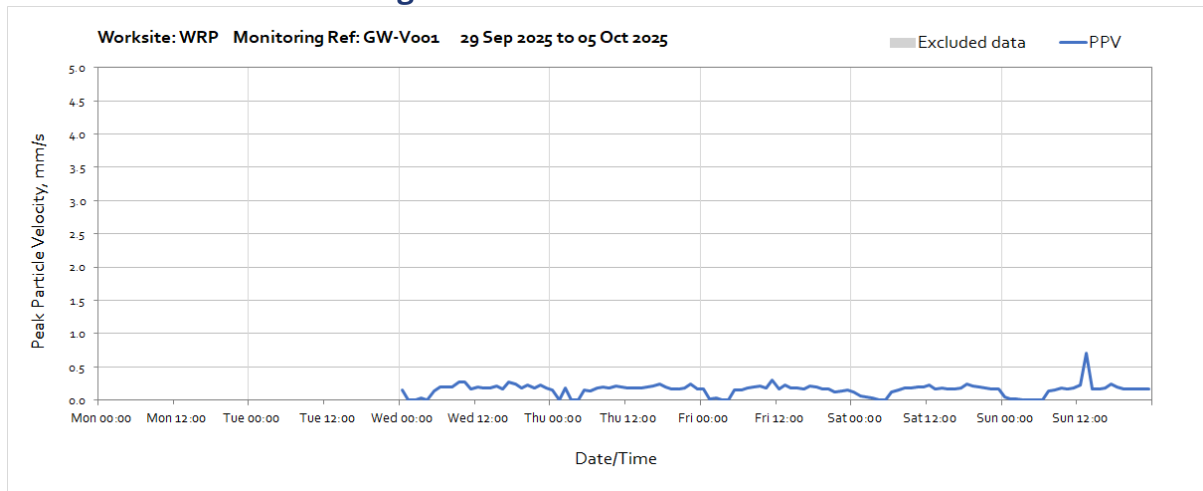
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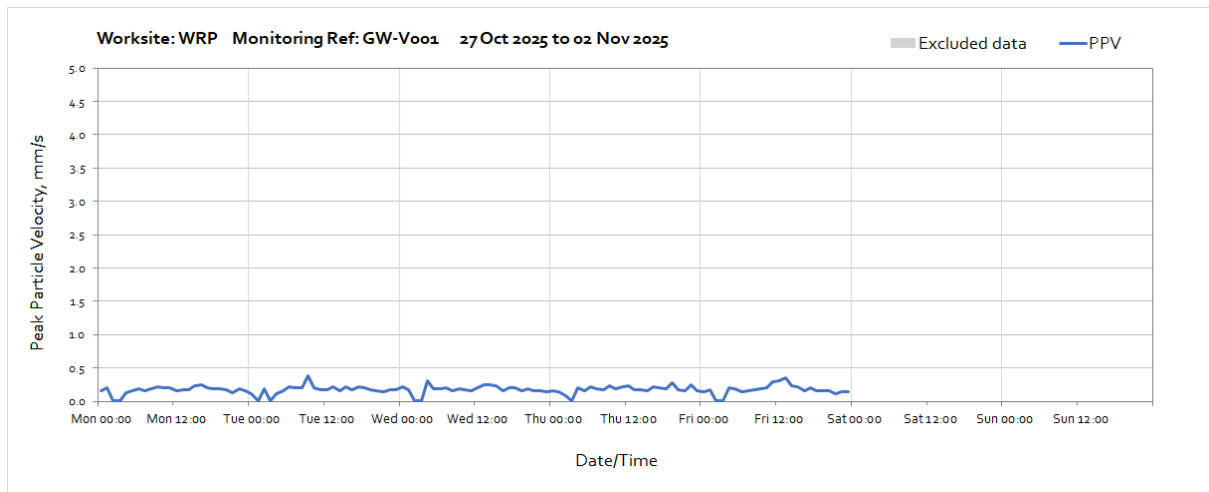
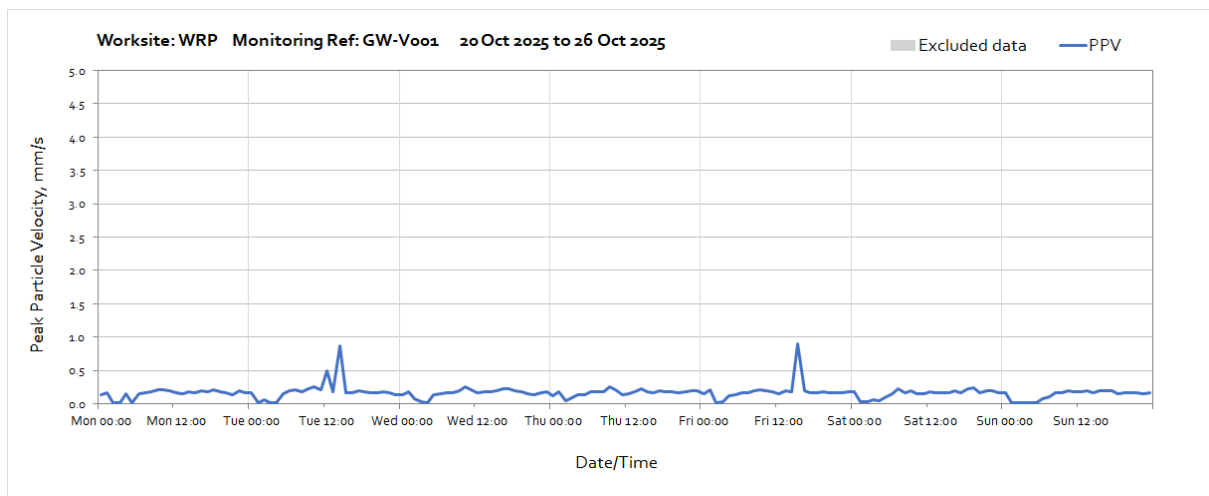
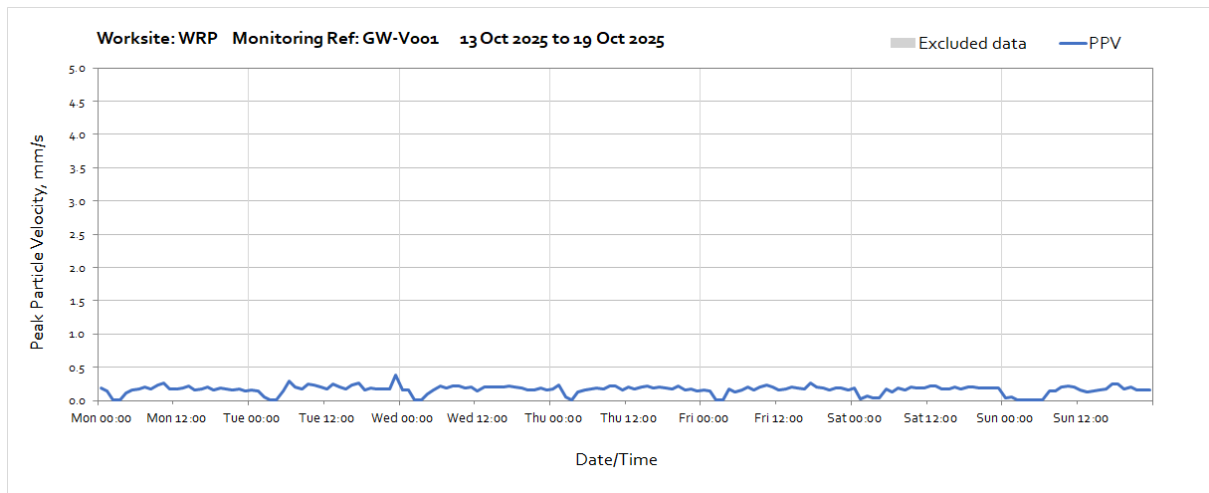


Vibration

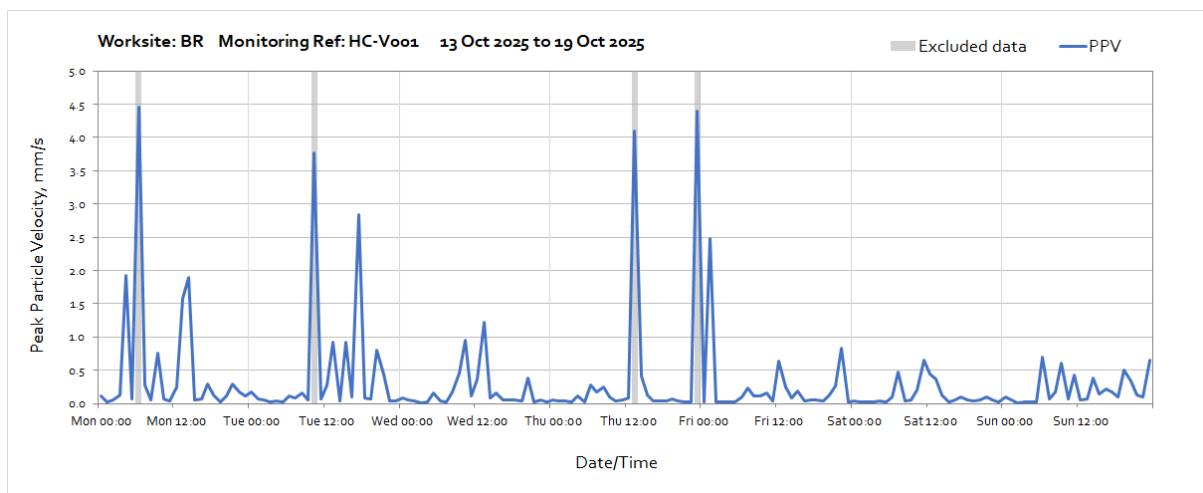
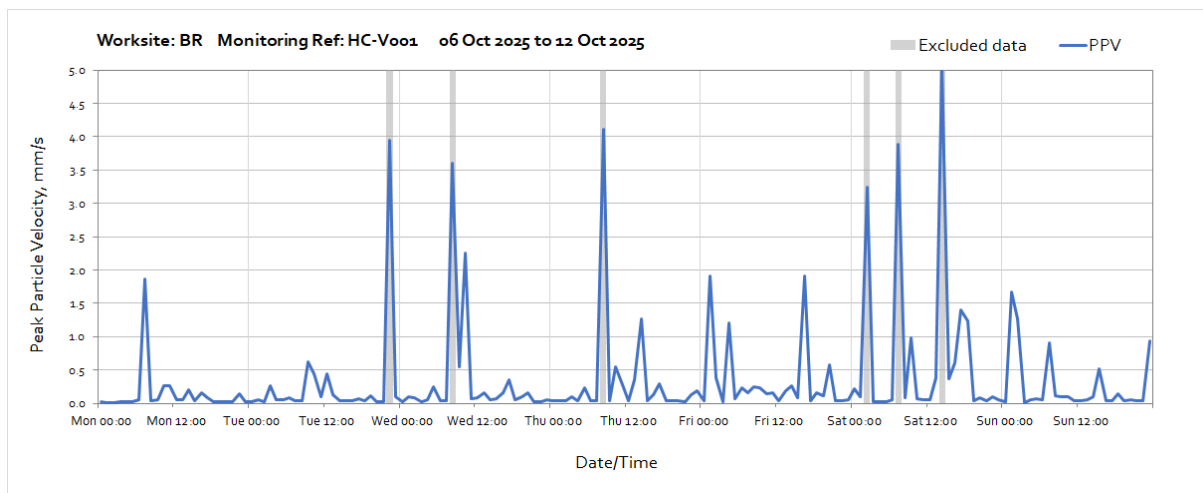
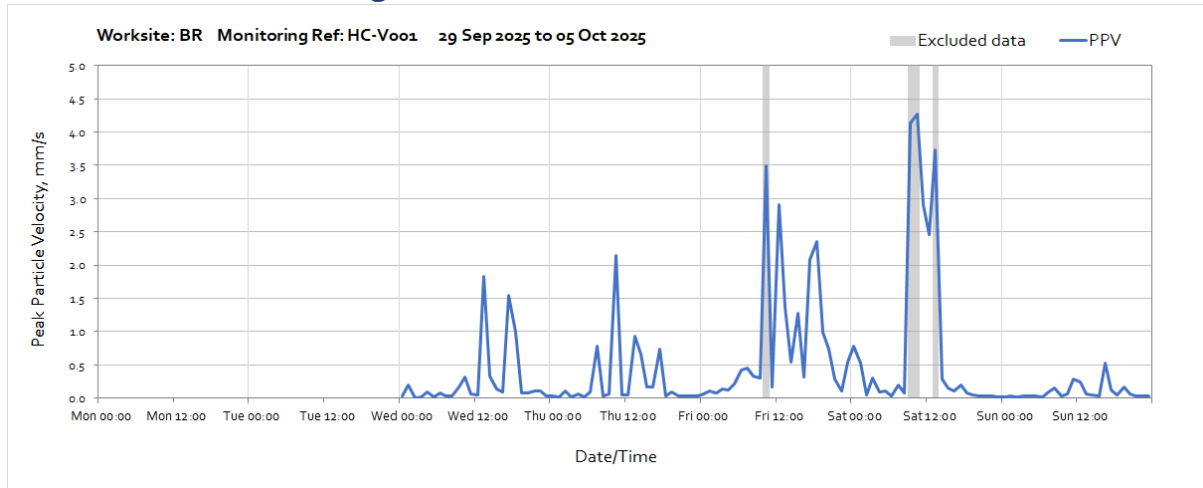
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the highest PPV of the three orthogonal axis x, y, and z. Periods where PPV values have been affected by local interference with the vibration monitor or only measured for part 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: WRP – Monitoring Ref: GW-V001

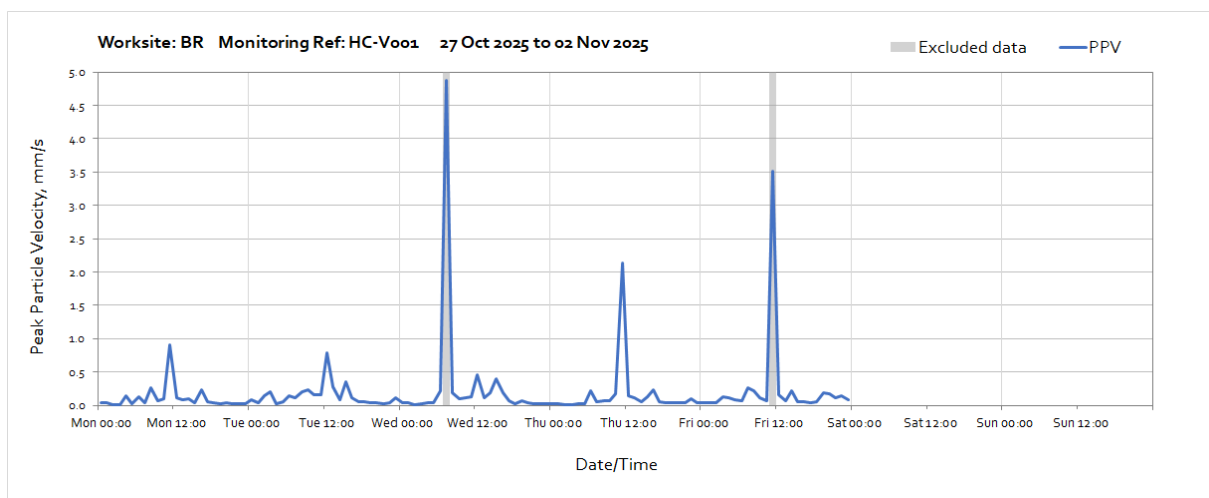
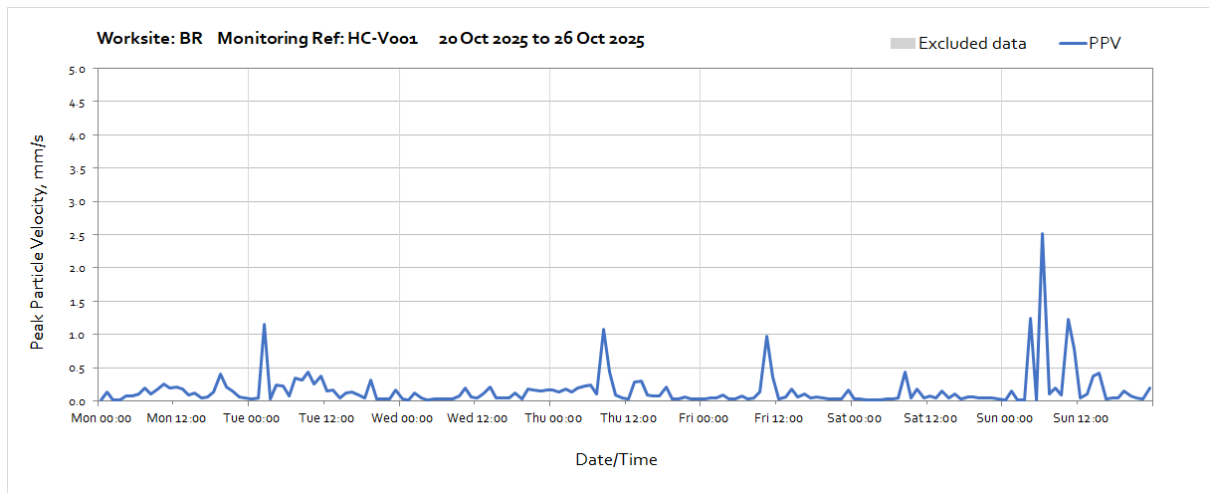




Worksite: BR – Monitoring Ref: HC-V001



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Worksite: SRVS – Monitoring Ref: SRVS-V001a

