

Construction Noise and Vibration Monthly Report – August 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 August 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, formwork, reinforced concrete activities, 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, removal of conveyor bridge, installation of noise barriers, installation of drainage system, installation of water treatment plant, installation of fencing, and footbridge preparation works were underway.
- South Ruislip Ventilation Shaft worksite (ref.: SRVS), where road sweeping, boundary wall preparation works, headhouse works, waterproofing, steel fixing, concrete works and general site management were underway.
- Harvil Road worksite (ref.: HR), where removal of treatment structure, backfilling, fencing installation, removal of material, landscaping, removal of slabs 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 material movement, backfilling, construction of Copthall Tunnel, railhead preparation works, attenuation pond works and headhouse construction 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 not exceeded due to HS2 works during August 2025.

There was one exceedance of trigger levels as defined in Section 61 consents during the reporting period.

Four (4) 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 August 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, kerb construction, parapet installation, concrete stitch construction, filling of voids and top openings, waterproofing, trough installation, noise barrier installation, waterproofing, slab construction, noise barrier foundation works, masking wall installation, operation of storage yard, installation of below and above deck access provisions, traffic management, steel works, support plant finishes, structural health monitoring, concrete, drainage and steel works.
- Landscaping works, including drainage, removal of cofferdams, de-vegetation, hardstanding removal, earthworks, subsoil, topsoil, cultivating, seeding, planting and road construction.
- Jetty removal works, including earthworks, cutting of piles, sheet piling and steel works.
- West Ruislip Portal worksite, ref.: WRP (see Plan 2 in Appendix A), where work activities included:
 - Maintenance wildlife habitat.
 - Unloading of deliveries and materials.
 - Formworks and reinforced concrete activities for headhouse and porous portal construction.
 - 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 including excavation works.

- Enabling works for the construction of the flood compensation area.
- Removal of conveyor bridge.
- Installation of noise barriers
- Installation of drainage systems.
- Installation of water treatment plant
- Fencing installation.
- Footbridge preparation works.
- South Ruislip Ventilation Shaft worksite, ref.: SRVS (see Plan 4 in Appendix A), where work activities included:
 - Road sweeping.
 - Preparatory works for northern boundary wall.
 - Brickwork, steel mesh and concrete installation.
 - Waterproofing of attenuation tank.
 - Steel fixing and concreting for western boundary wall.
 - 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:
 - Removal of treatment structure.
 - Backfilling of pond.
 - Fencing installation.
 - Removal of tunnel boring machine material.
 - Landscaping.
 - Removal of utility crossing slab.
 - 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 material movement, backfilling, construction of Copthall Tunnel, railhead preparation works, attenuation pond works and headhouse construction 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 Eighteen (18) noise and three (3) vibration monitoring installations were active in August in the LBH area. Table 2 summarises the location of noise and vibration monitoring installations within the LBH area in August 2025.
- 1.2.2 Maps showing the position of noise monitoring installations are presented in Appendix B.
- 1.2.3 The noise monitor at measurement location ref. NSPA-N002, worksite ref. NSPA, was relocated on the 5th August to a more representative location at location ref. NSPA-N001a, worksite ref. NSPA.
- 1.2.4 The noise monitor at measurement location ref. SSPA-HR, worksite ref. HR, was removed as works in the vicinity have ceased.

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

Worksite Reference	Measurement Reference	Address
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-N002	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	52.7 (54.6)	61.5 (64.0)	52.6 (57.6)	46.6 (51.6)	42.7 (53.6)	49.4 (52.5)	60.4 (61.9)	51.3 (53.8)	48.9 (55.9)	42.1 (47.1)	50.1 (65.5)	43.6 (49.2)
	HFM-NMP	Harefield Marina, Moorhall Road, London	Free-field	47.6 (49.3)	51.0 (68.0)	47.4 (54.1)	45.6 (53.8)	40.4 (47.0)	45.9 (49.7)	47.4 (48.4)	45.7 (47.7)	46.2 (51.1)	40.2 (44.7)	45.9 (54.0)	40.8 (46.2)
	WRC-NMP	Savay Lane, Denham, Uxbridge	Façade	51.8 (53.2)	52.7 (58.5)	51.6 (54.3)	50.2 (63.3)	45.2 (56.7)	49.8 (50.7)	51.2 (52.2)	53.7 (60.9)	52.7 (65.5)	44.7 (48.7)	49.4 (52.3)	44.5 (49.1)
WRP	WRP-N001	West Ruislip Golf Club, Ickenham Rd, Ruislip	Free-field	45.0 (48.9)	47.2 (61.0)	43.9 (47.1)	42.5 (48.9)	39.8 (48.5)	44.0 (48.5)	45.9 (48.0)	46.6 (48.6)	44.6 (49.1)	39.3 (45.0)	45.0 (51.3)	40.8 (46.2)
	N048	West Ruislip Golf Club, Ickenham Rd, Ruislip	Free-field	57.1 (60.8)	59.0 (61.9)	53.4 (57.1)	51.3 (56.4)	48.4 (56.8)	56.3 (61.1)	56.5 (60.3)	54.2 (57.1)	53.5 (62.7)	47.9 (52.7)	52.5 (57.5)	48.9 (53.7)
	N056	83 The Greenway, Ickenham, Ruislip	Façade	60.8 (61.7)	60.3 (61.5)	60.0 (61.0)	59.2 (62.7)	54.2 (61.7)	57.9 (58.6)	59.0 (59.9)	58.0 (58.4)	59.6 (61.4)	52.9 (59.6)	58.6 (61.7)	55.1 (59.9)
	N057	123 The Greenway, Ickenham, Ruislip	Façade	57.8 (58.8)	57.2 (66.5)	57.1 (61.6)	55.9 (58.5)	51.1 (58.2)	55.7 (57.4)	56.9 (59.3)	56.4 (62.2)	57.2 (65.8)	50.1 (56.2)	55.5 (58.0)	52.1 (57.3)

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	65.3 (66.1)	65.7 (67.6)	65.7 (69.1)	63.2 (68.0)	59.3 (66.7)	63.0 (63.6)	64.8 (65.1)	65.1 (65.7)	64.3 (69.1)	58.0 (62.5)	63.5 (66.2)	58.8 (64.5)
	N066	Hoylake Crescent, Ickenham, Uxbridge	Free-field	55.3 (56.5)	55.5 (57.5)	54.6 (55.6)	53.9 (58.5)	49.4 (56.2)	52.7 (54.0)	54.3 (56.1)	53.2 (53.6)	54.4 (57.3)	49.2 (53.5)	53.7 (57.9)	50.0 (55.0)
	TKL-N001	Tile Kiln Lane, Harefield, Uxbridge	Free-field	47.2 (49.3)	48.2 (53.2)	45.7 (48.0)	44.3 (50.9)	42.3 (51.5)	45.0 (48.2)	46.4 (48.2)	47.5 (48.6)	45.7 (48.8)	42.0 (45.8)	45.5 (52.8)	42.9 (48.0)
	HC-N001	Hoylake Crescent, Ickenham, Uxbridge	Free-field	53.2 (57.4)	53.1 (55.5)	51.2 (57.0)	50.3 (60.2)	48.6 (60.1)	53.4 (58.8)	53.1 (55.1)	50.8 (54.0)	50.8 (59.8)	48.5 (58.6)	51.8 (60.4)	47.5 (60.1)
SRVS	N061	Cineworld South Ruislip car park, Ruislip	Free-field	57.9 (60.5)	62.0 (63.1)	62.0 (66.7)	62.2 (67.7)	56.7 (68.5)	57.6 (59.2)	61.4 (62.1)	61.1 (62.1)	61.7 (68.5)	56.5 (63.4)	61.7 (67.7)	57.8 (63.8)
	TCA-N001	Trenchard Avenue, Ruislip	Free-field	56.6 (58.5)	57.7 (62.5)	56.5 (58.4)	55.4 (58.4)	51.3 (57.4)	54.1 (55.7)	55.3 (56.4)	54.8 (55.7)	55.8 (57.7)	49.5 (55.1)	55.6 (61.3)	52.2 (56.8)

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	52.9 (68.8)	57.0 (60.5)	52.8 (59.3)	52.6 (62.0)	50.5 (64.7)	51.1 (55.8)	55.2 (56.0)	53.6 (57.2)	53.7 (59.6)	48.5 (59.1)	53.4 (61.5)	50.5 (60.8)
	BSR-N001	Breakspear Road	Free-field	67.5 (68.5)	67.6 (69.1)	67.2 (69.1)	64.6 (68.0)	61.0 (69.2)	65.1 (65.7)	67.5 (68.7)	67.0 (67.5)	65.8 (67.6)	59.5 (64.6)	65.2 (68.7)	60.2 (68.2)
	DGT-N001	Dogs Trust West London	Façade	51.0 (54.5)	53.2 (58.3)	47.1 (52.0)	46.2 (53.0)	44.7 (59.9)	48.5 (51.0)	53.4 (58.2)	51.9 (53.3)	49.6 (58.1)	42.9 (49.4)	47.8 (54.5)	45.0 (51.0)
NSPA	NSPA-N002	Newyears Green Lane	Free-field	44.0 (45.4)	54.1 (59.3)	47.2 (47.2)	41.1 (44.7)	37.9 (43.1)	40.8 (40.8)	43.8 (43.8)	44.4 (44.4)	40.7 (42.9)	37.1 (40.5)	43.6 (47.0)	42.4 (51.0)
	NSPA-N001a	Newyears Green Lane	Free-field	53.1 (55.2)	55.7 (60.1)	49.7 (52.9)	47.5 (57.9)	44.5 (55.9)	48.2 (48.5)	54.8 (61.2)	51.4 (52.6)	48.9 (52.8)	41.5 (48.3)	48.4 (53.6)	45.3 (52.4)

- 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	1.12 (Y-axis)
BR	HC-V001	Hoylake Crescent, Ickenham, Uxbridge	3.04 (Z-axis)
SRVS	SRVS-V001a	Braintree Road, Ruislip	2.96 (Z-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	Saturday Sunday Night	1400-2200 0700-2200 2200-0700	1 5 1	No exceedance
	HFM-NMP	Harefield Marina, Moorhall Road, London	Weekday Sunday	0800-1800 0700-2200	2 2	No exceedance
	WRC-NMP	Savay Lane, Denham, Uxbridge	Saturday	1300-1400 1400-2200	1 4	No exceedance
WRP	WRP-N001	West Ruislip Golf Club, Ickenham Rd, Ruislip	All days	All periods	No exceedance	No exceedance
	N048	West Ruislip Golf Club, Ickenham Rd, Ruislip	Weekday	1900-2200	1	No exceedance
	N056	83 The Greenway, Ickenham, Ruislip	All days	All periods	No exceedance	No exceedance
	N057	123 The Greenway, Ickenham, Ruislip	Weekday	0800-1800	1	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	Saturday	1400-2200	2	No exceedance
NSPA	NSPA-N002	Newyears Green Lane	Night	2200-0700	1	No exceedance
	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 seven (7) monitoring locations during weekday daytime, weekday evening, Saturday afternoon, Sunday, and night periods.

2.2.7 No exceedances of the SOAEL were recorded at any monitoring location during August 2025.

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2.3 Exceedances of Trigger Level

- 2.3.1 Table 6 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 6: 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
N/A	NSPA	16/08/2025, between 14:30 and 15:15	Stockpile movement and fencing works.	Two noise alerts were captured on noise monitor DGT-N001 on Harvill Road at 14:30 and 15:15. The Section 61 includes for works on a Saturday afternoon, however, noise alerts were associated with stockpile movement and fencing works activities consented during core hours only, ending at 13:00 on Saturday afternoons.	Works were stopped on 15:30 that day after receipt of the alerts. Operatives were re-briefed about agreed working hours for these activities. These triggers have been reported to LBH and reported as an environmental incident to HS2.

2.4 Complaints

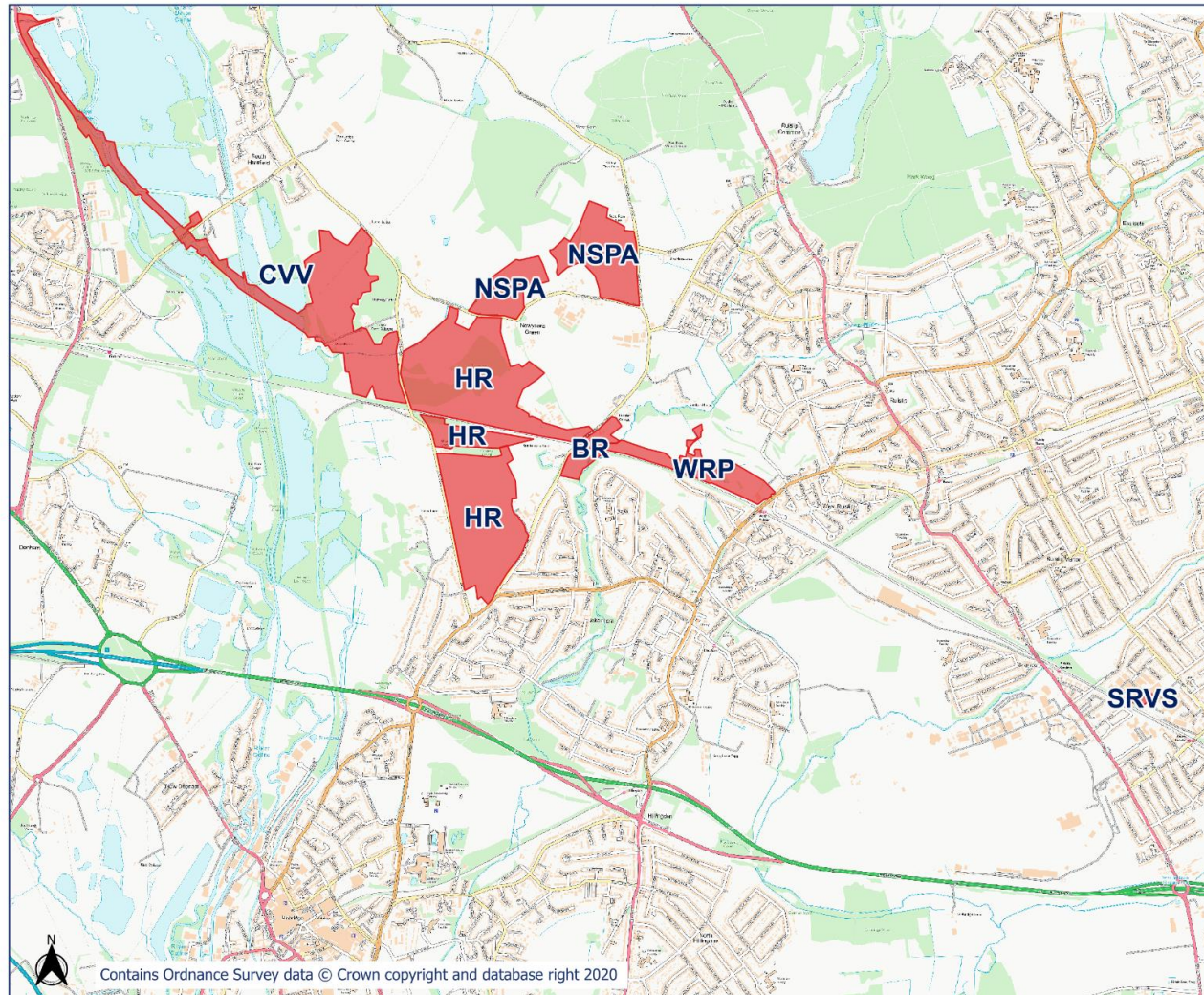
- 2.4.1 Table 7 provides a summary of complaint information related to noise and vibration received during the reporting period, along with the findings of any investigation.

Table 7: Summary of Complaints

Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-25-46629-C HS2-25-46630-C	BR	Complaint due to general construction noise.	The noise was due to the dismantling of the Tunnel Boring Machines, loading/unloading of dismantled parts, dismantling of the water plant which supported the tunnelling activities. All works were consented and monitoring data demonstrated compliance with Section 61 requirements.	A response has been provided to the stakeholder confirming the results of investigation.

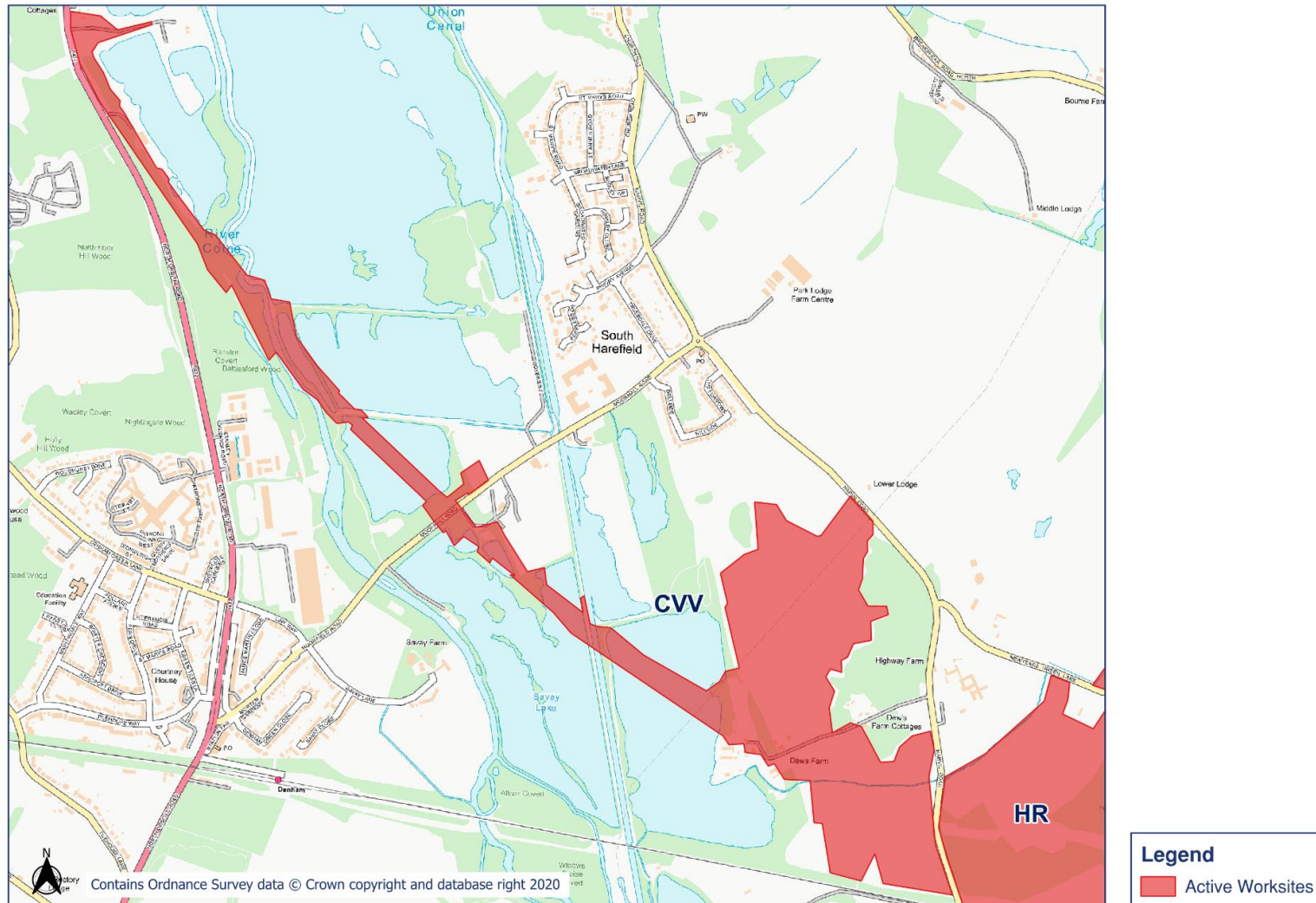
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-25-46659-C	CVV	Complaint due to noise from HS2 construction vehicles.	All HS2 vehicles are using an approved route. Resident has been advised several other businesses using larger vehicles in the area. Automatic number plate recognition cameras have been installed to monitor HS2 vehicle movements.	A response has been provided to the stakeholder confirming the results of investigation.
HS2-25-46662-C	N/A	Complaint due to a pulsating/vibrating noise.	The noise was not associated with HS2 construction.	A response has been provided to the stakeholder confirming the results of investigation.

Appendix A Site Locations

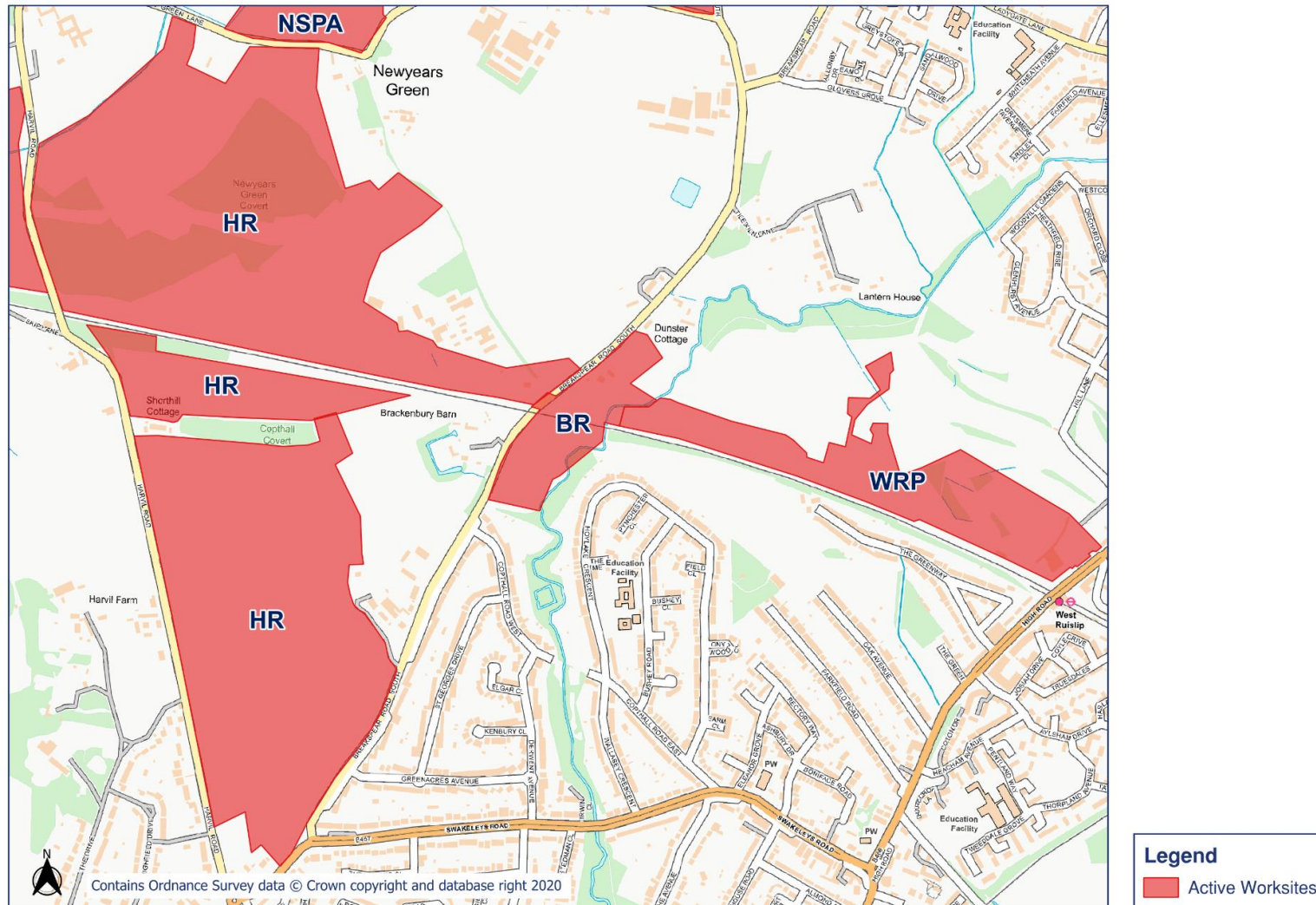


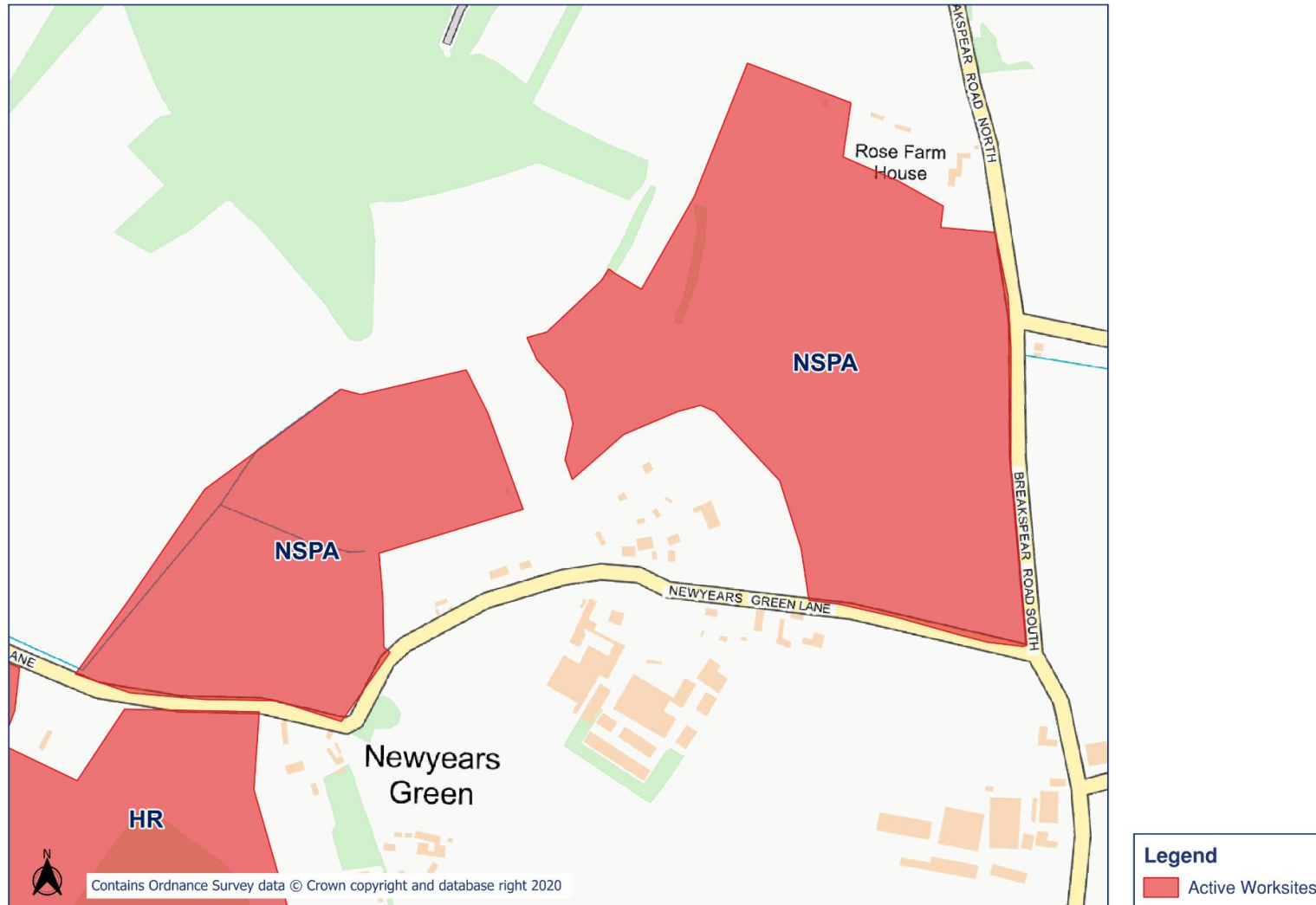
HS2

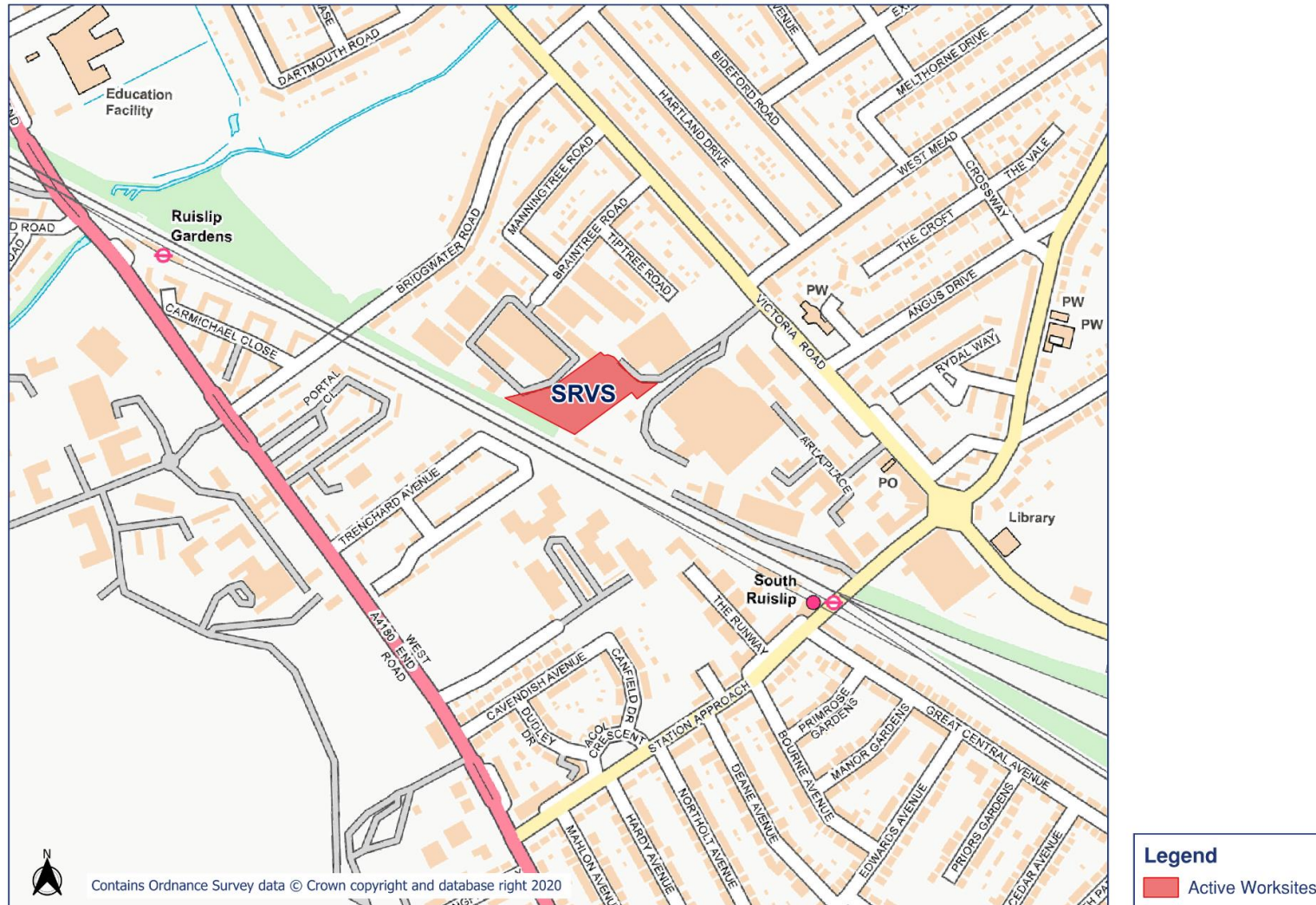
Worksite Identification Plan - 1



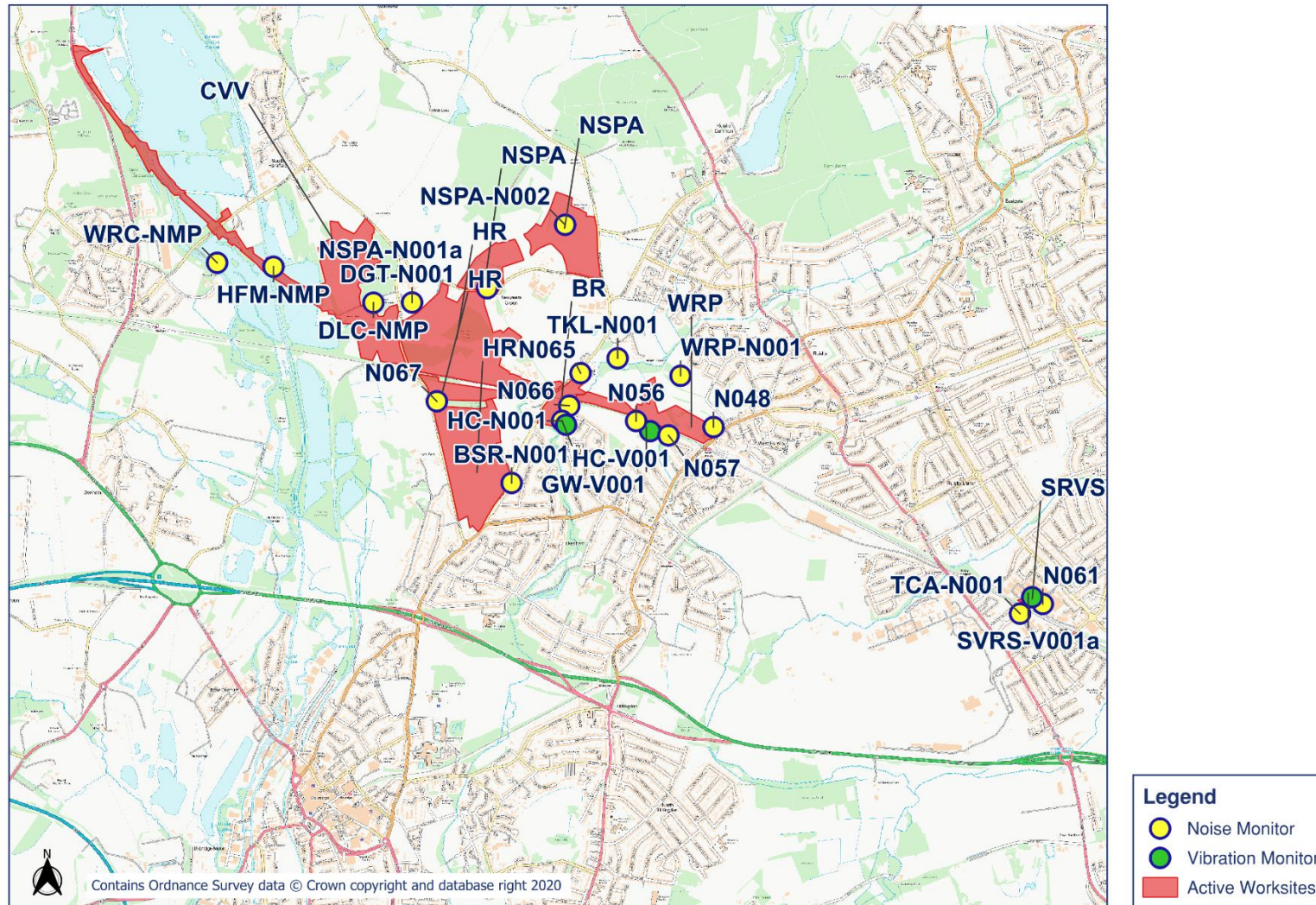
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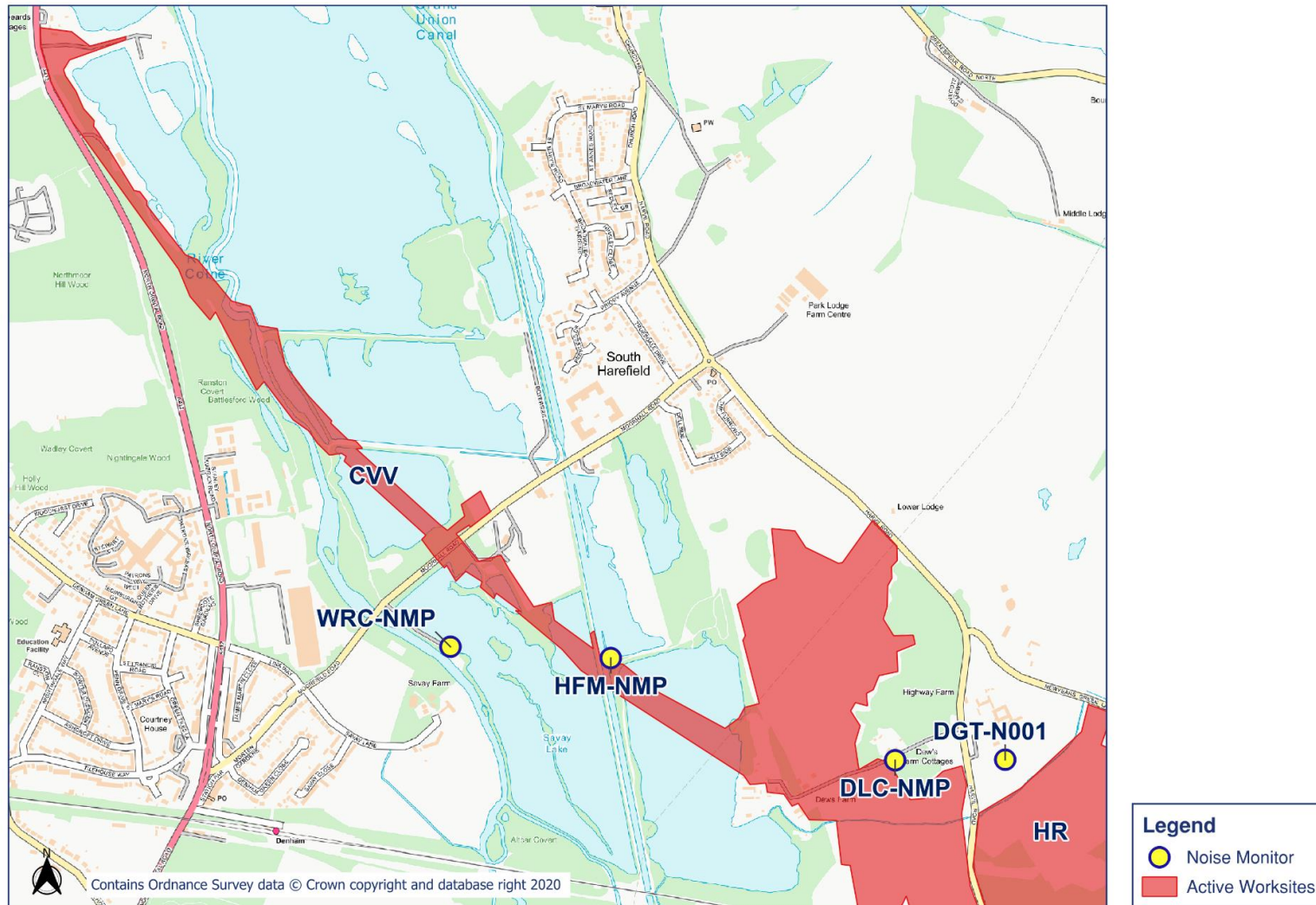


Appendix B Monitoring Locations



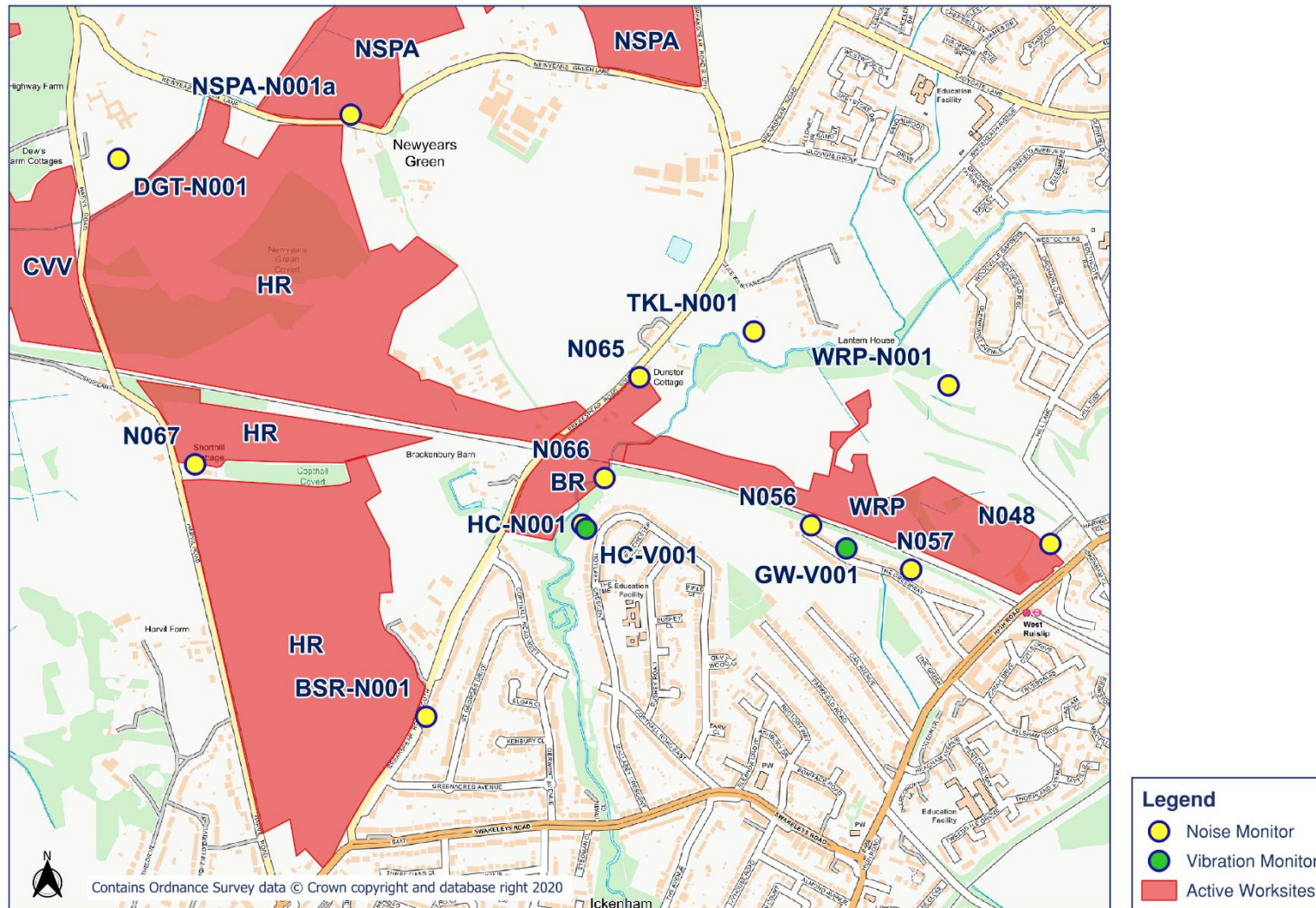
HS2

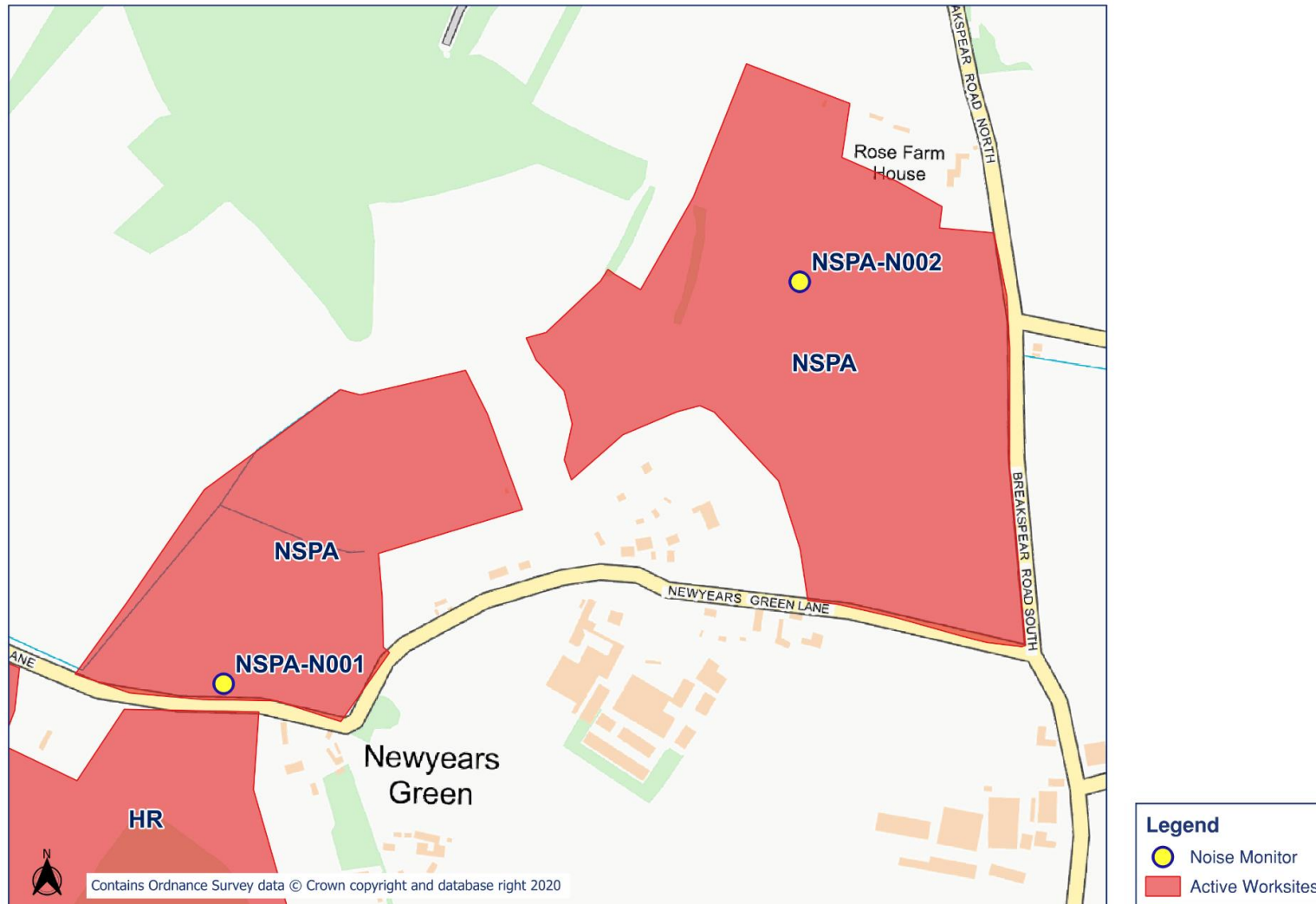
Noise and Vibration Monitoring Plan - 1

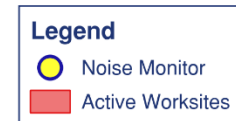
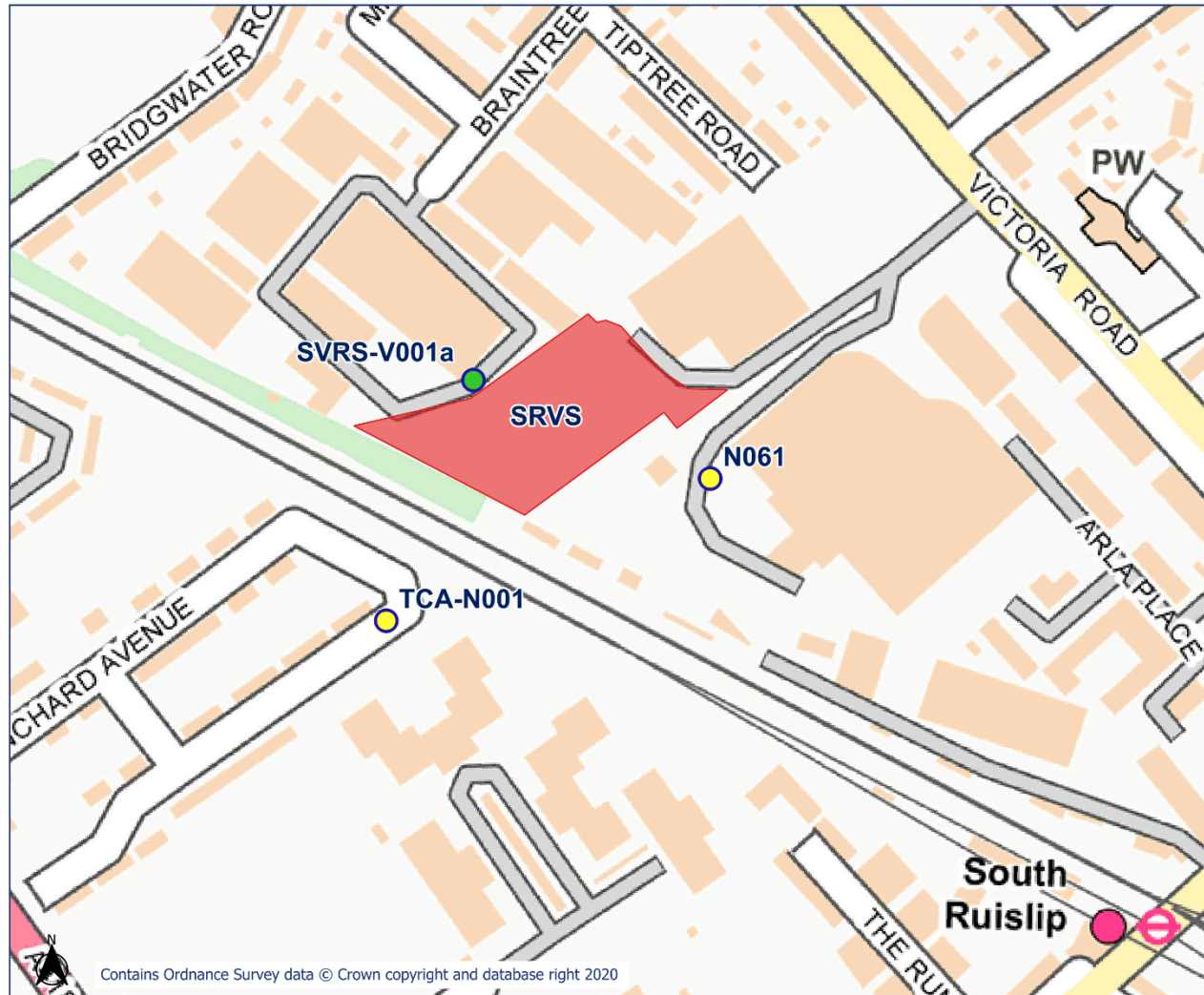


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HS2 Noise and Vibration Monitoring Plan - 2





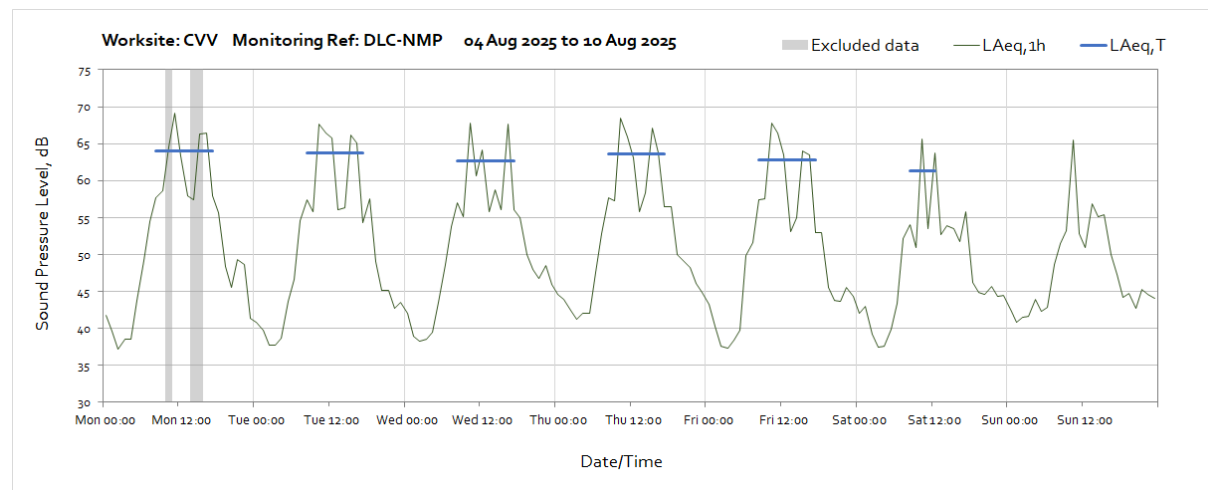
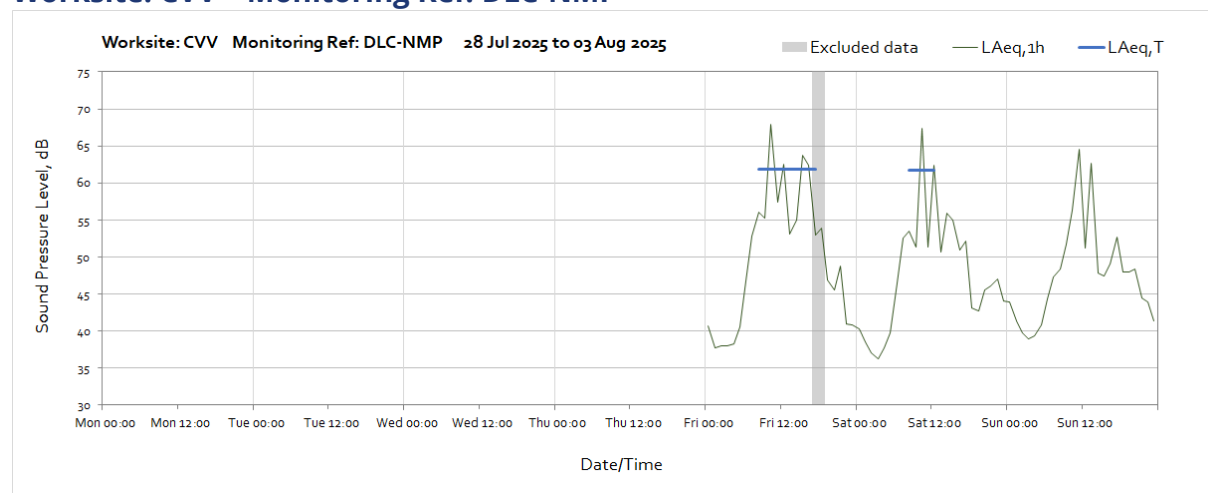


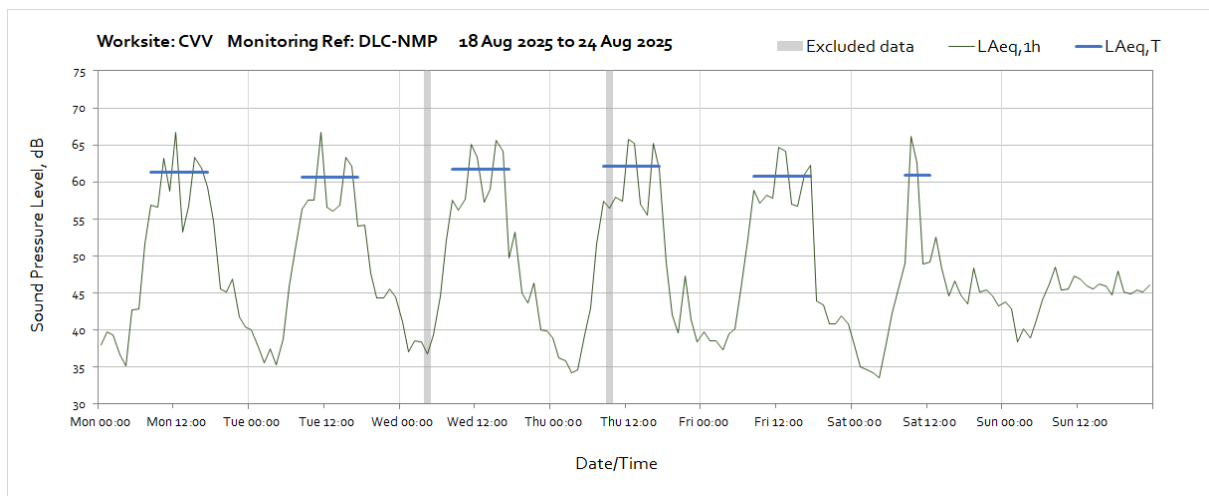
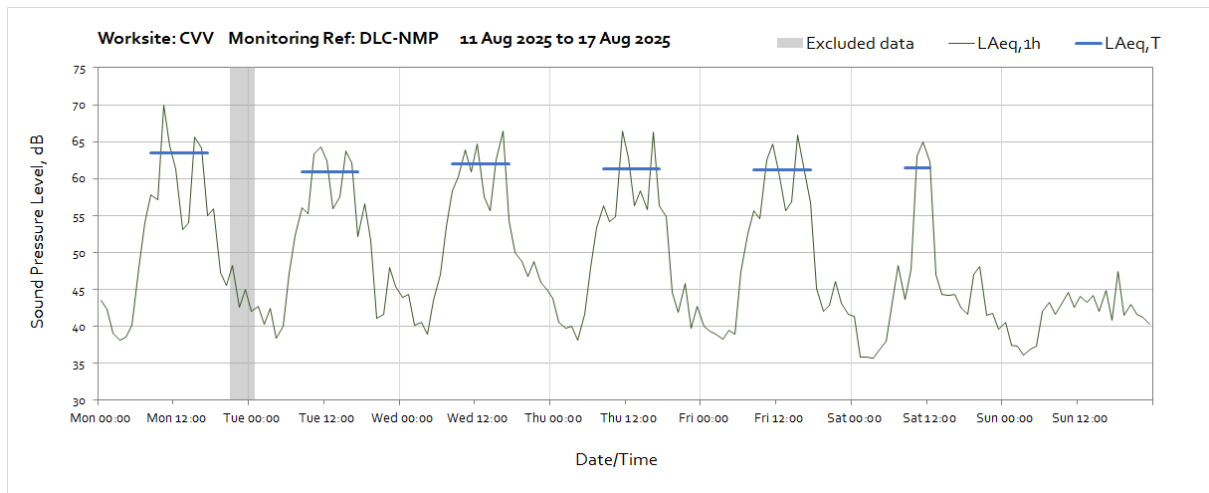
Appendix C Data

Noise

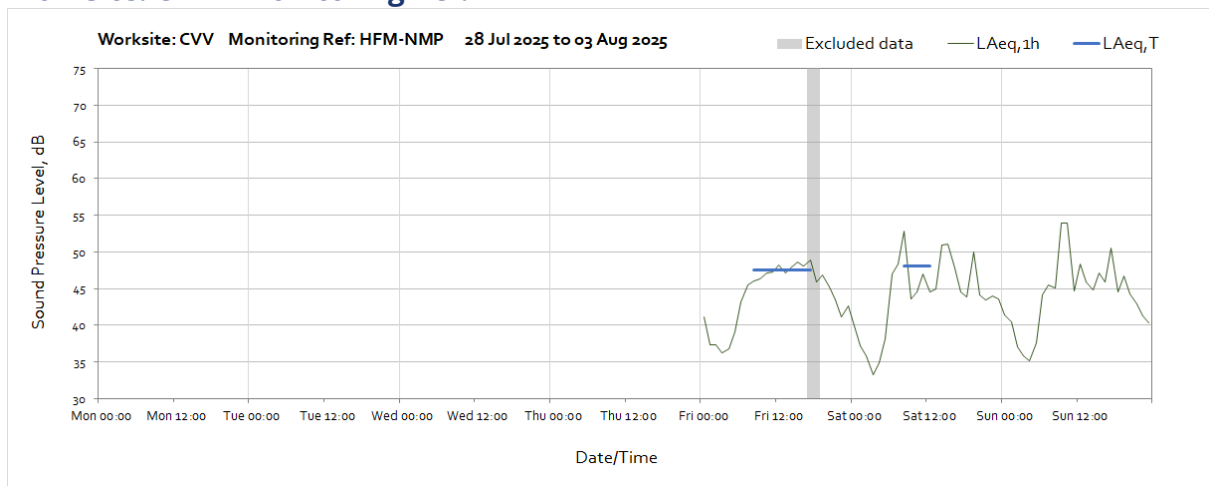
The following graphs show the hourly measured ambient noise level $L_{Aeq,1h}$ and, where relevant, the averaged noise level $L_{Aeq,T}$ values, where the time period T is as specified in Table 1 of HS2 Information Paper E23. Periods where noise levels are adversely affected by weather or only measured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

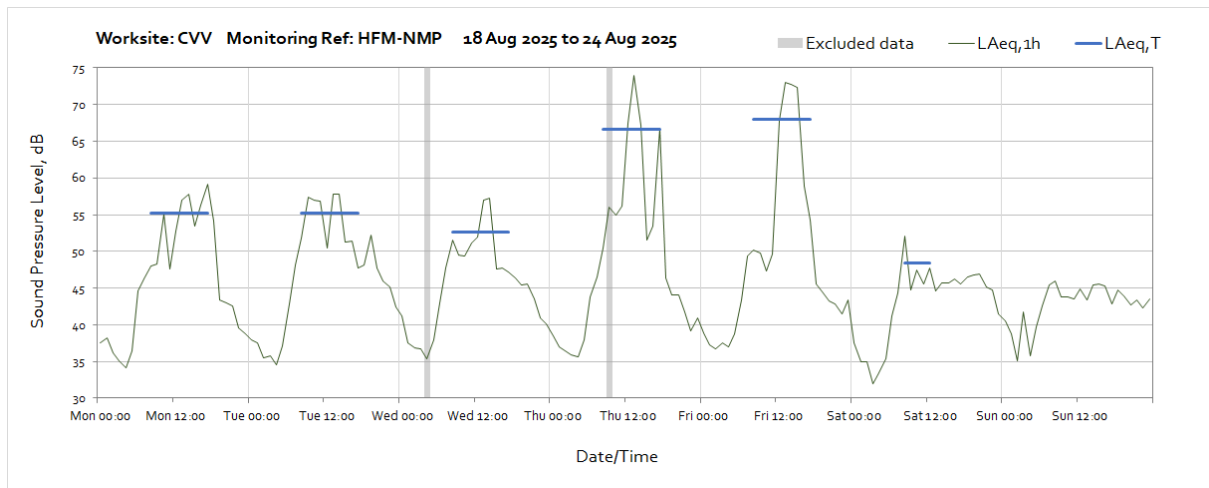
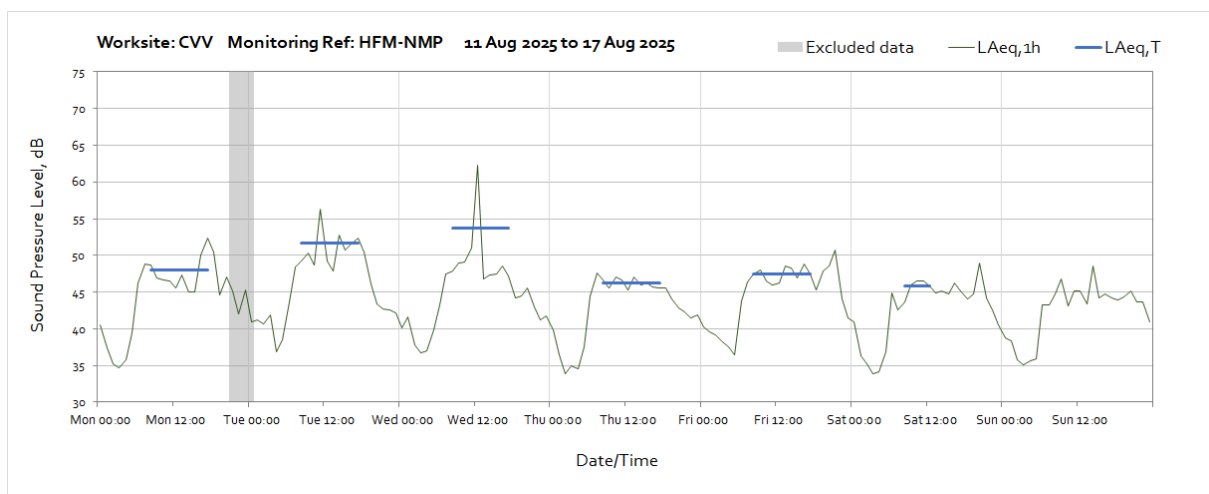
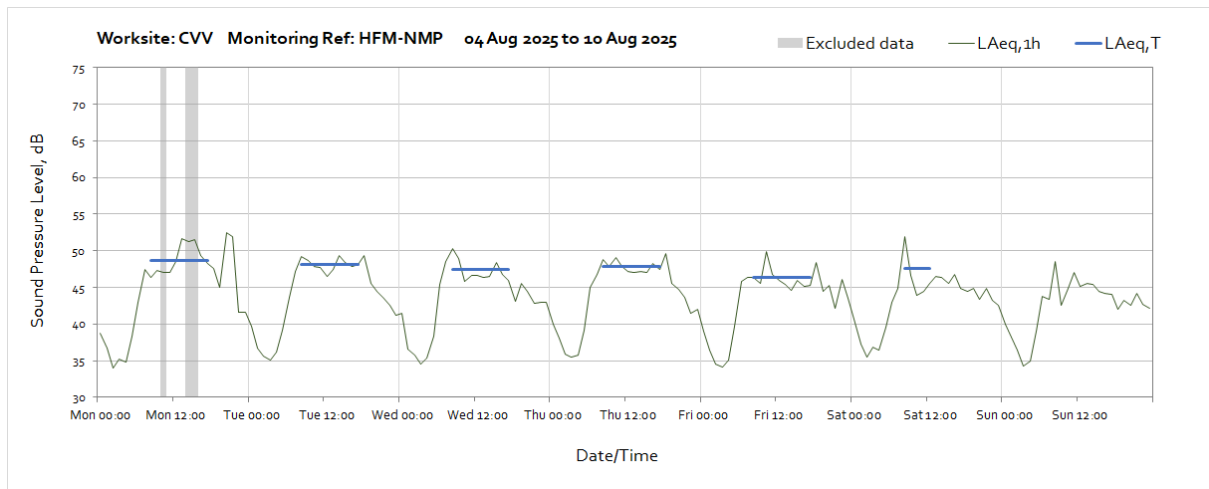
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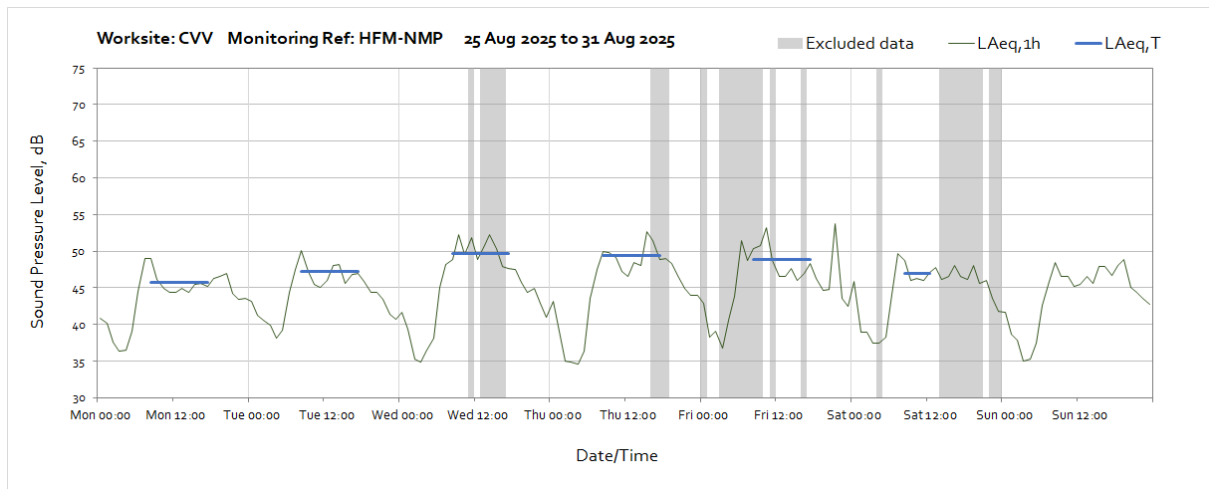




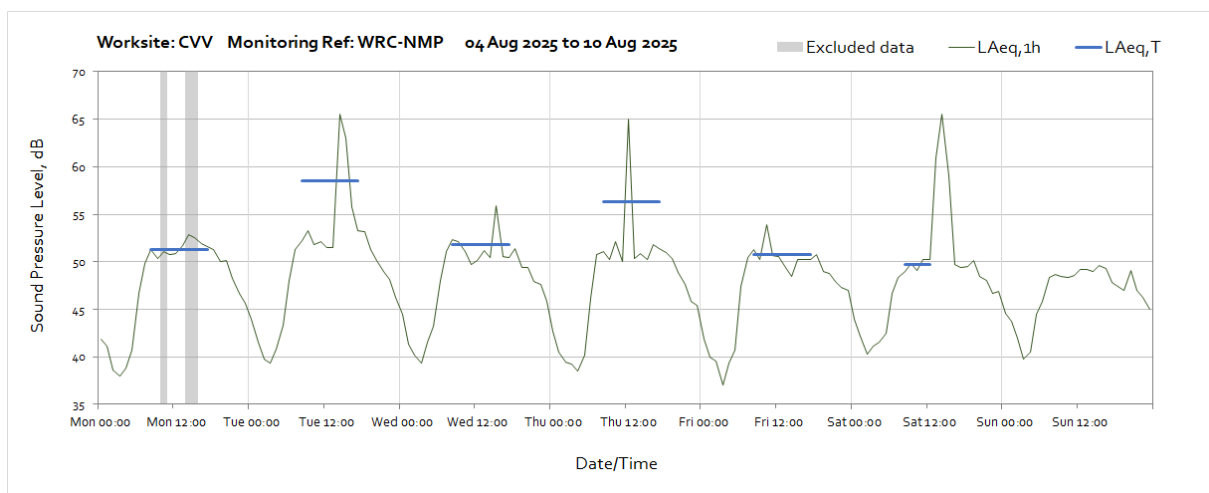
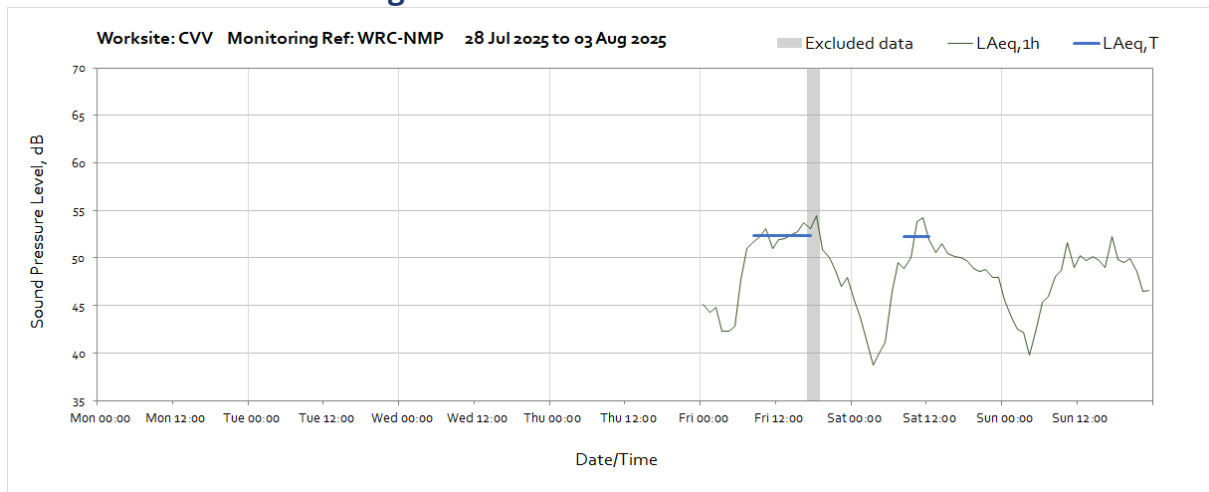
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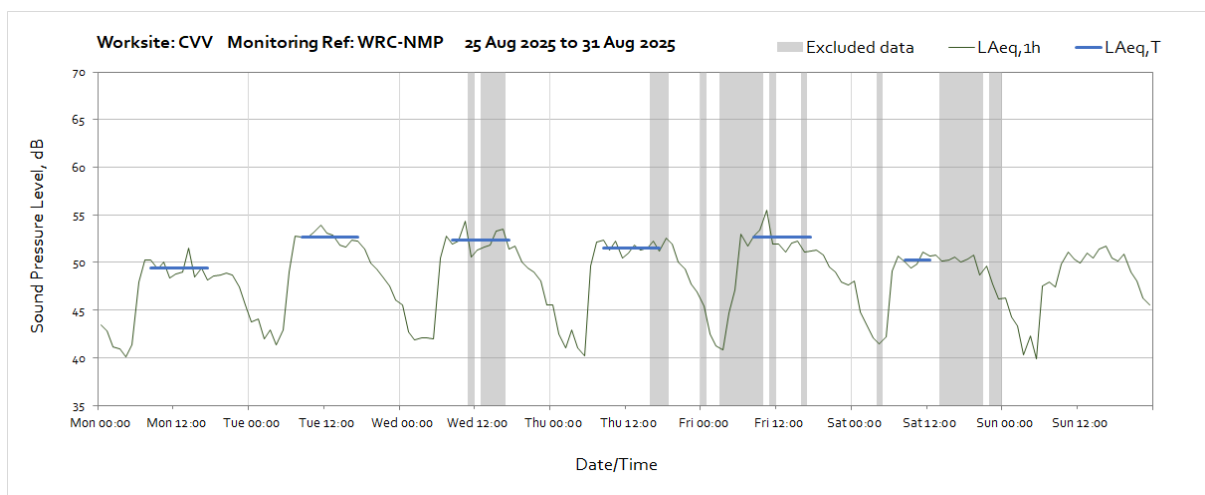
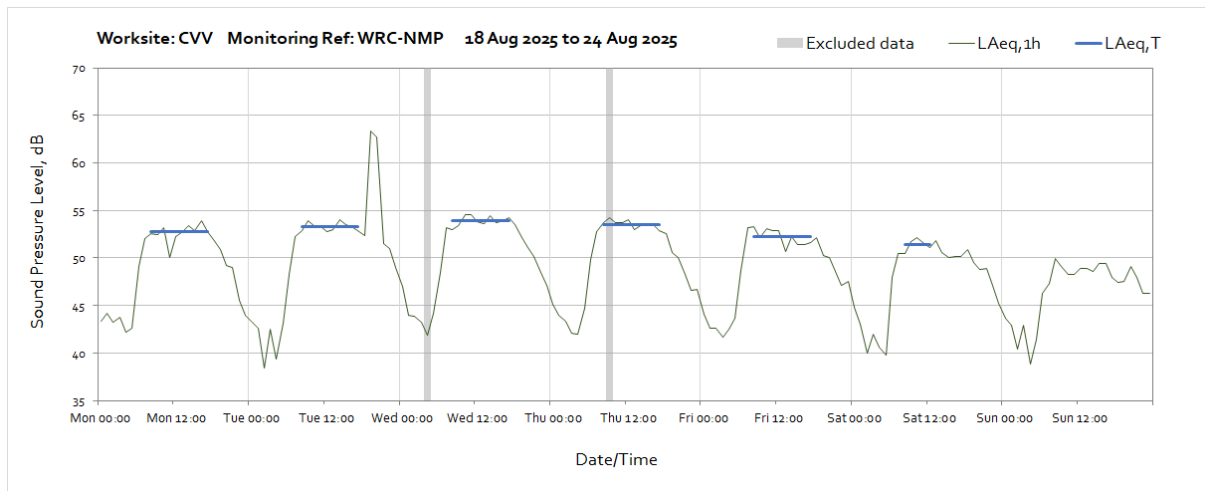




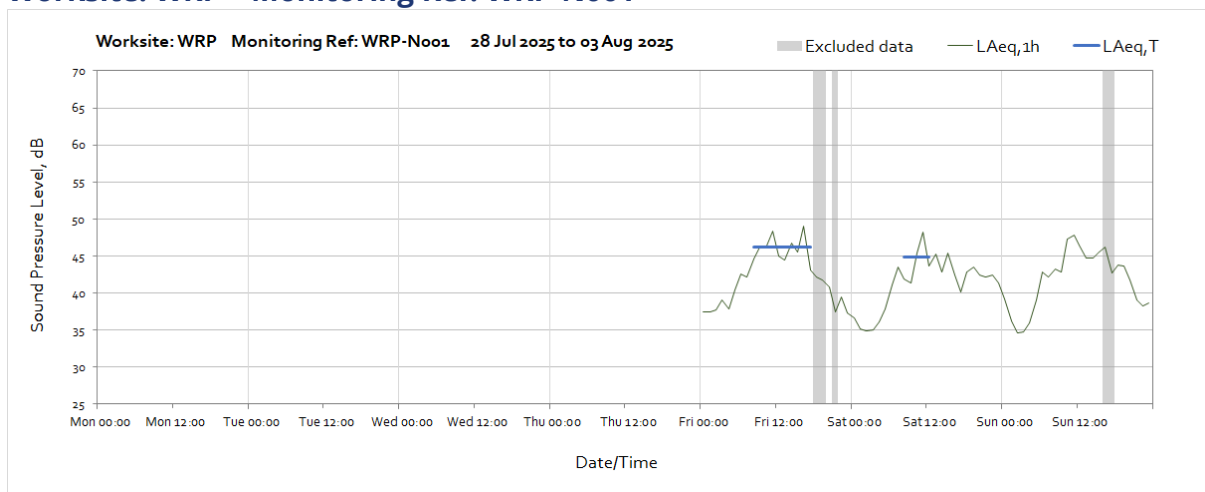


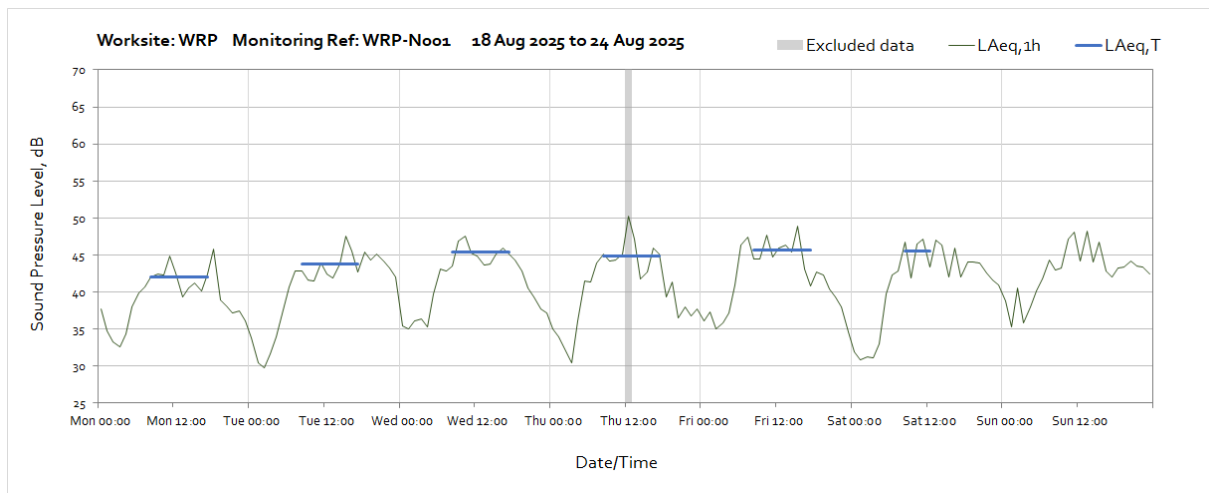
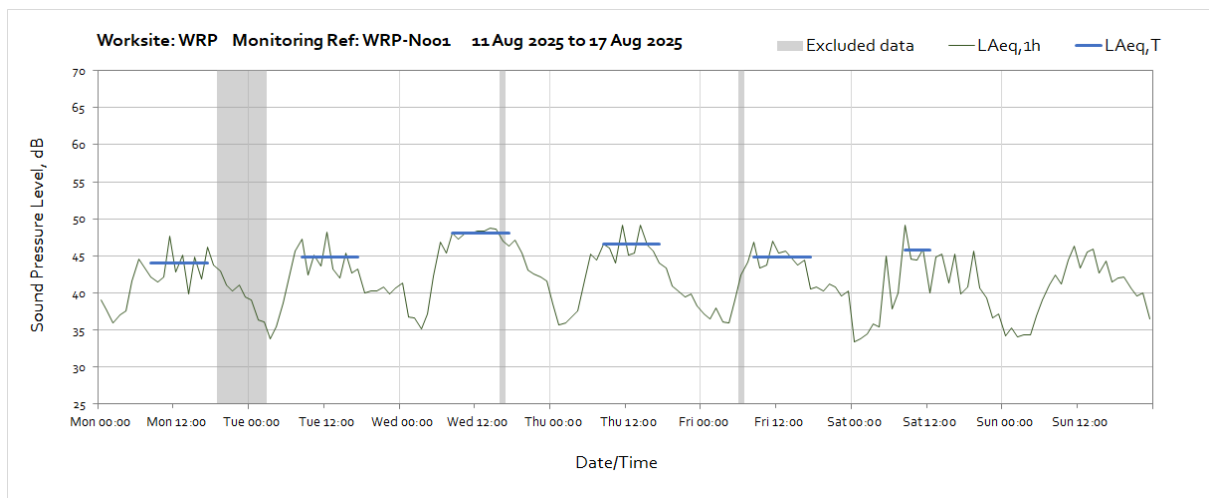
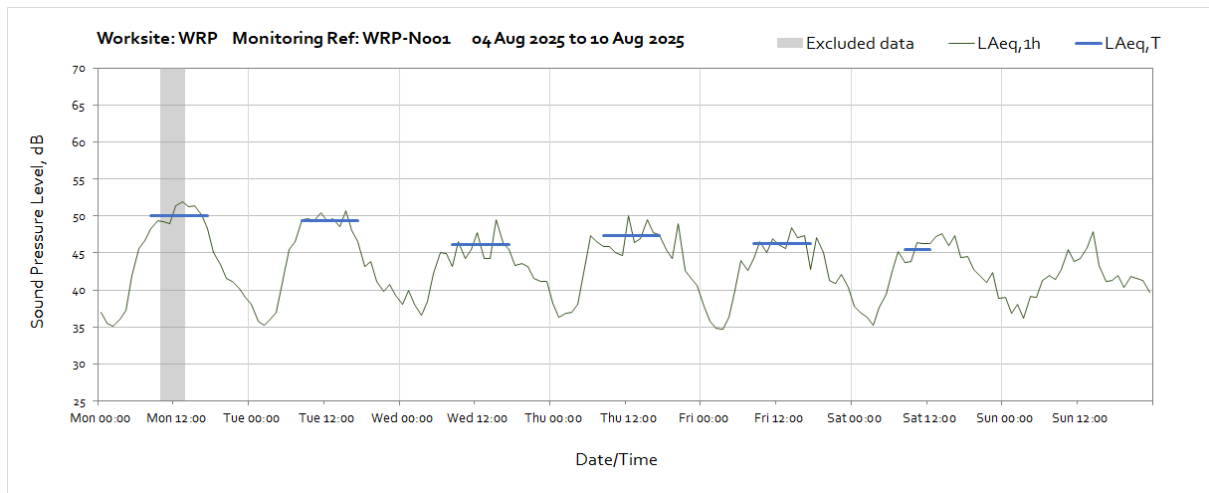
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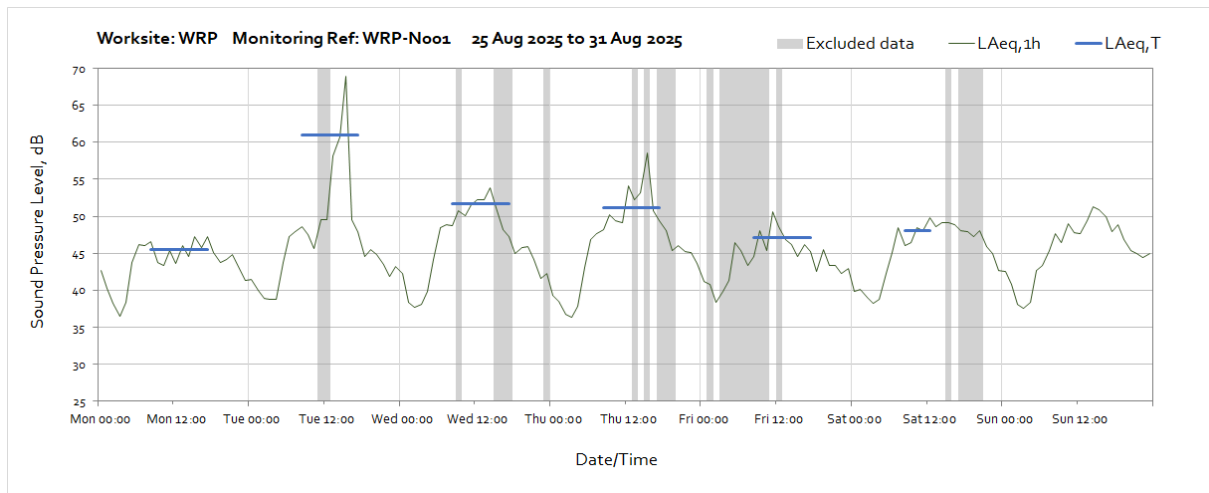




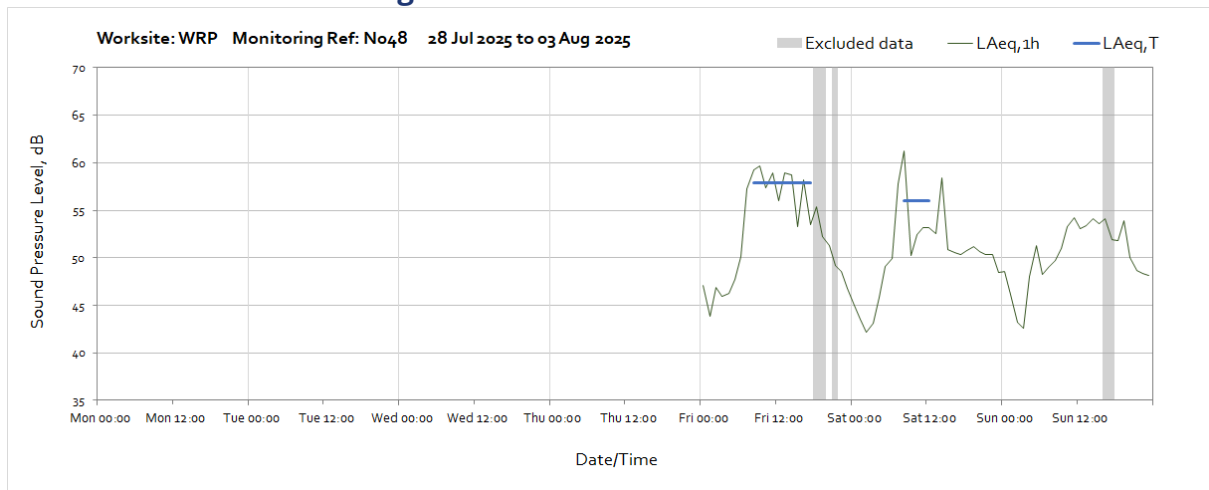
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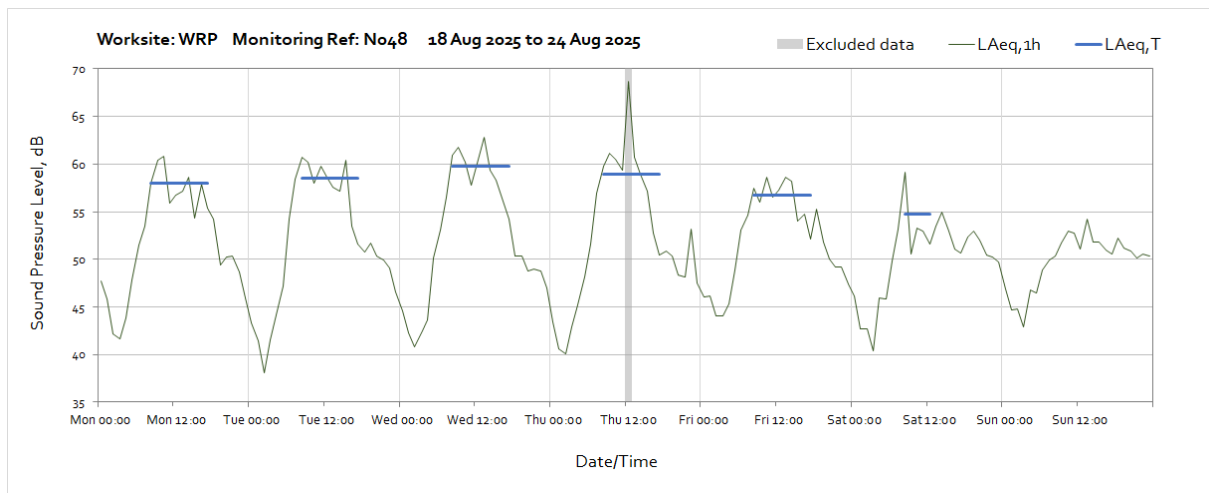
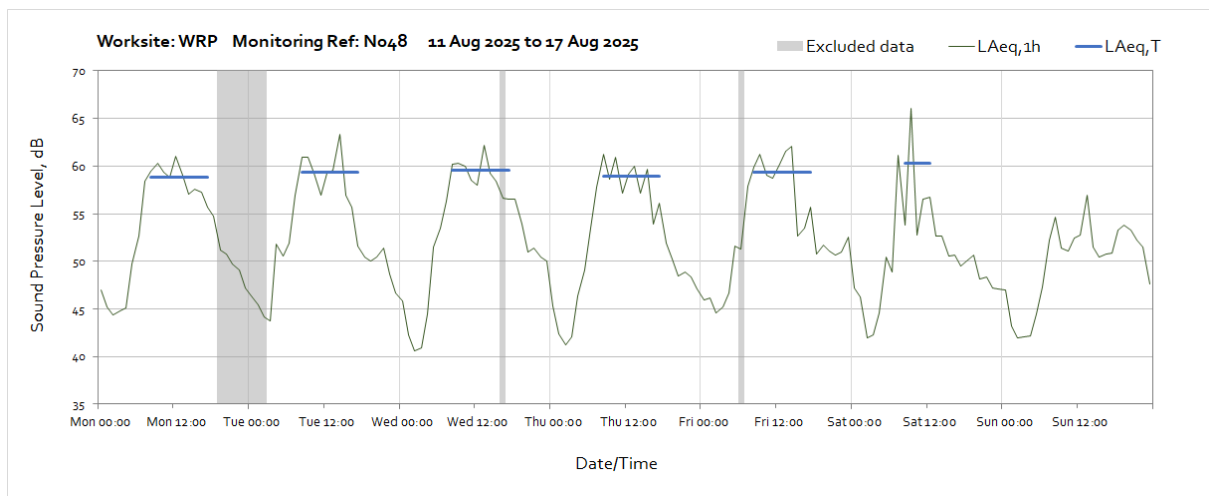
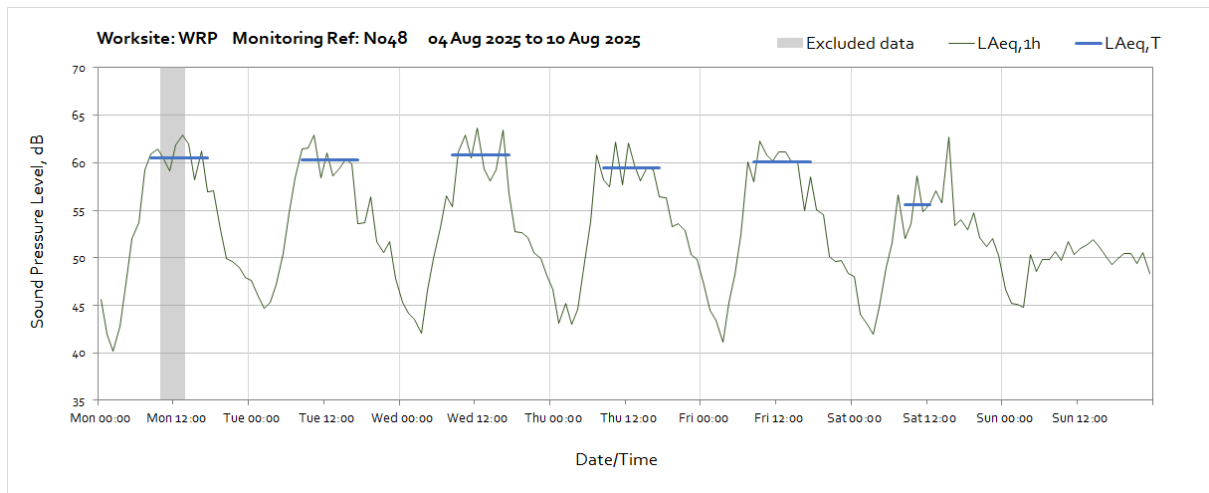


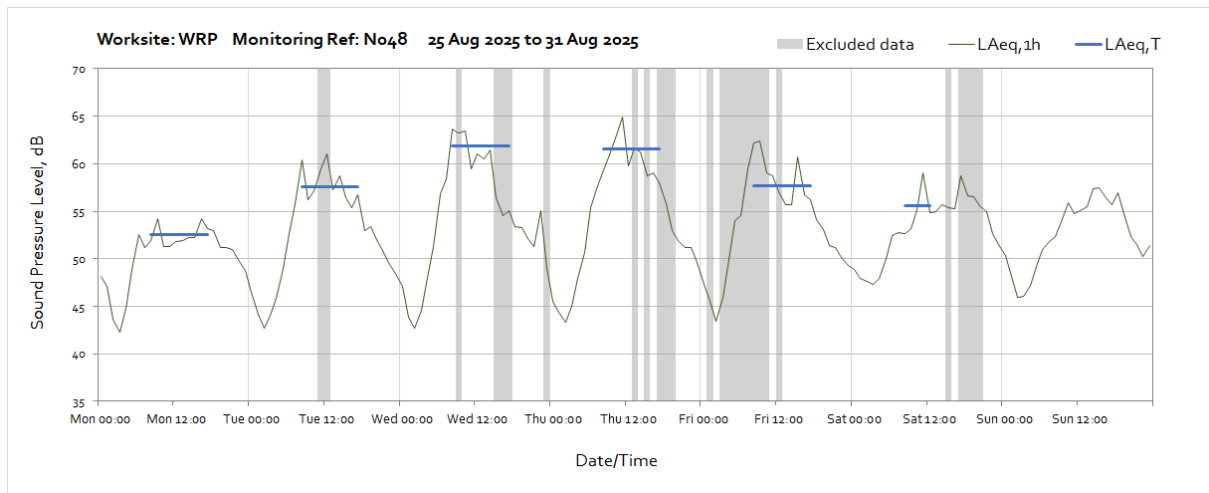




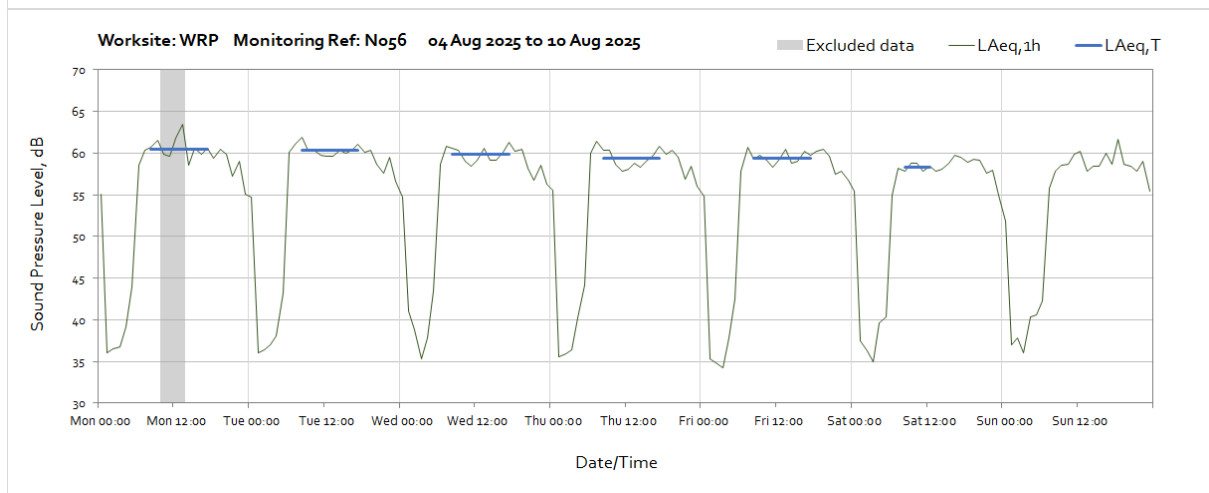
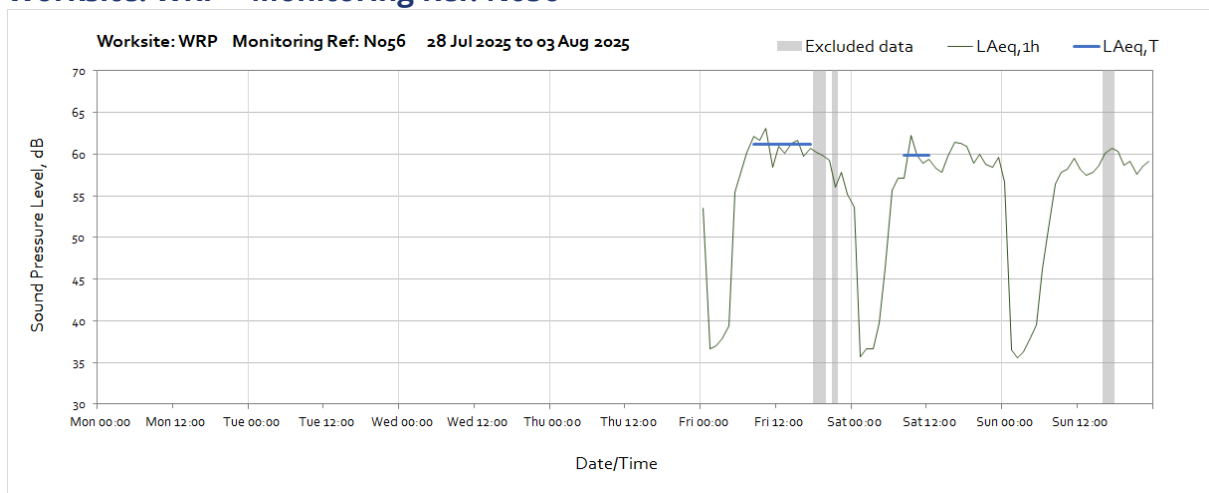
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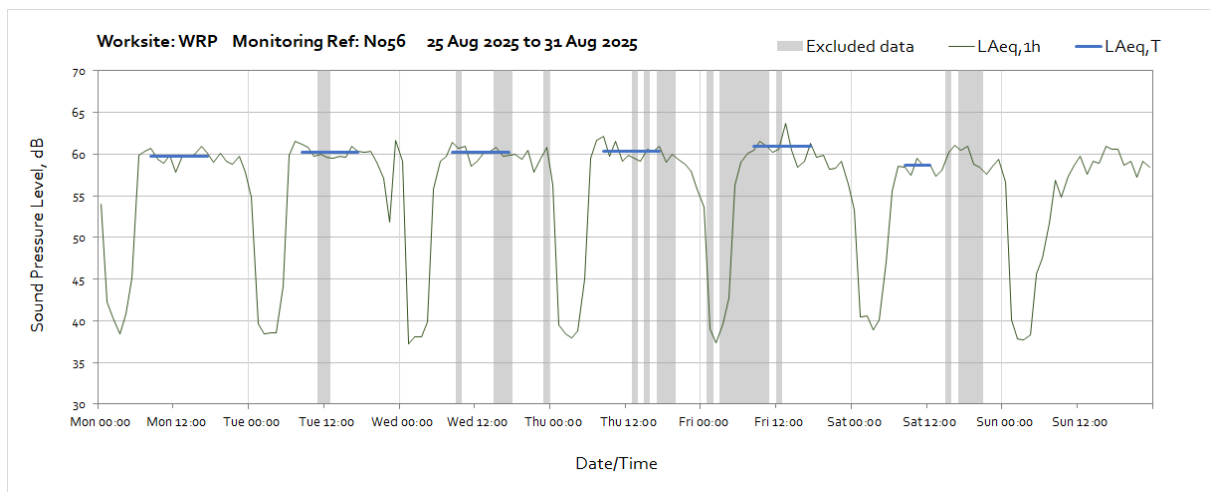
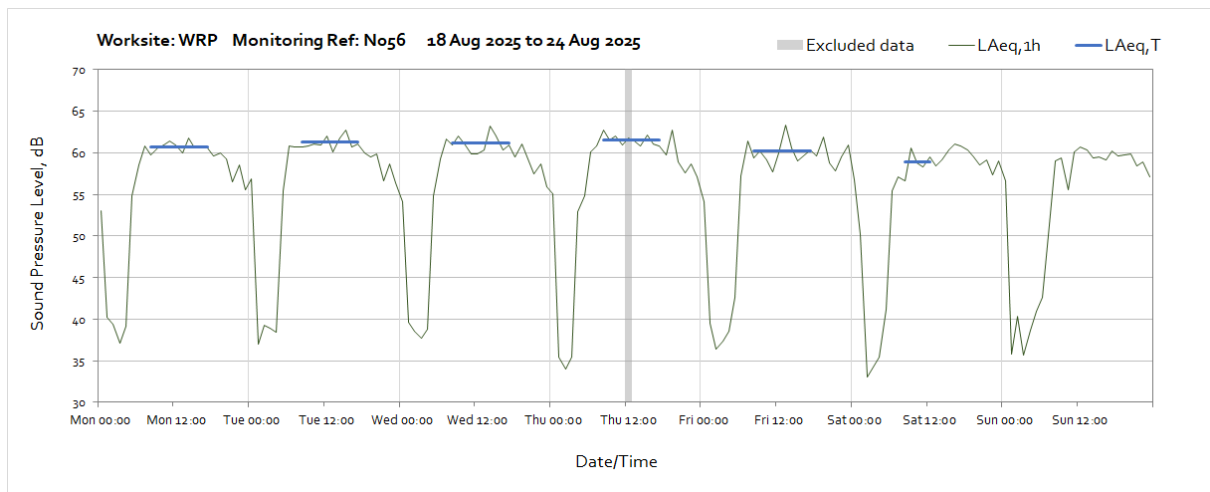
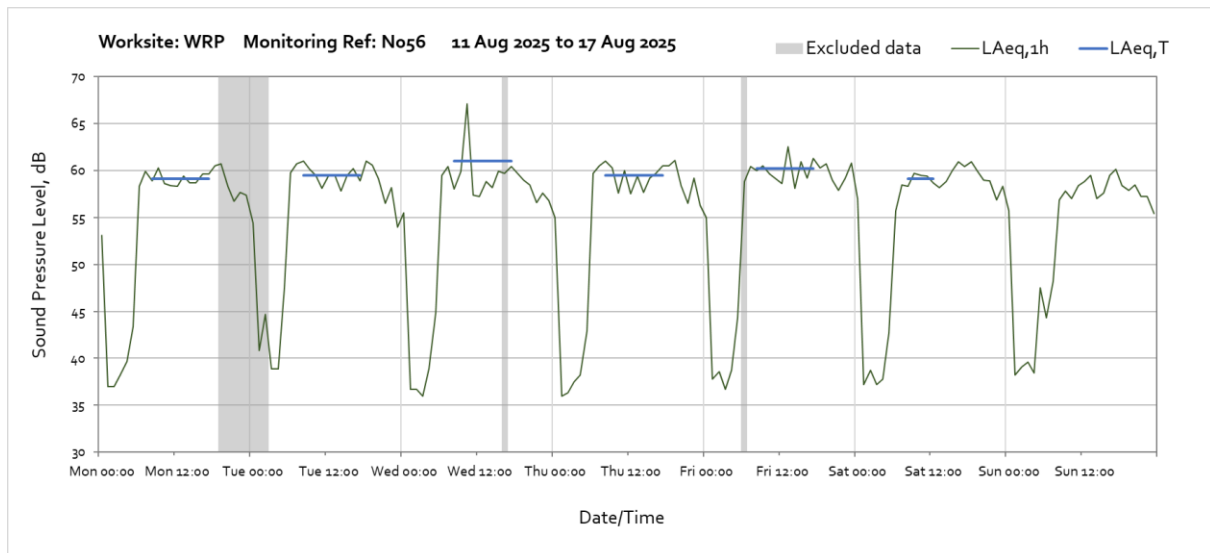




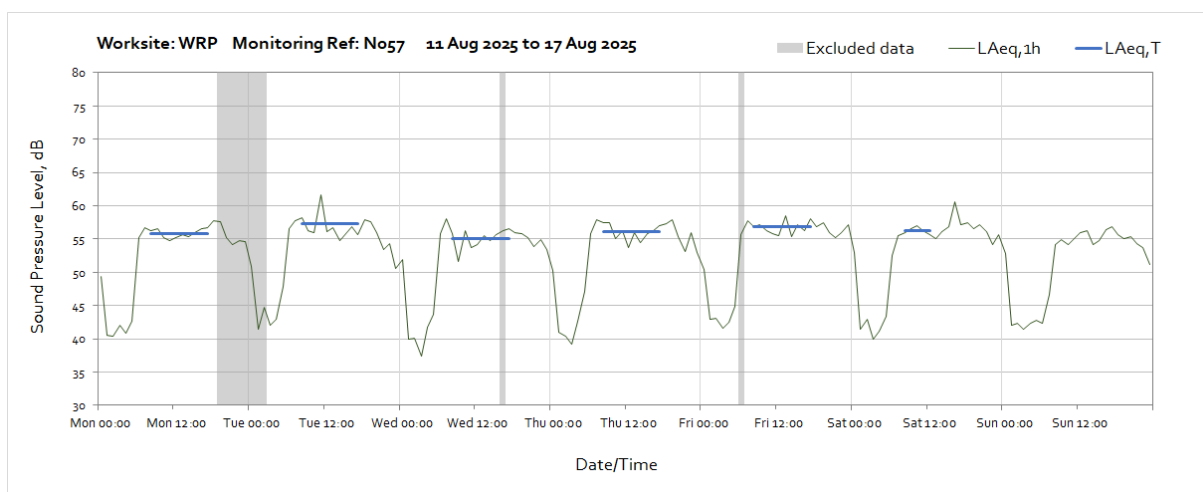
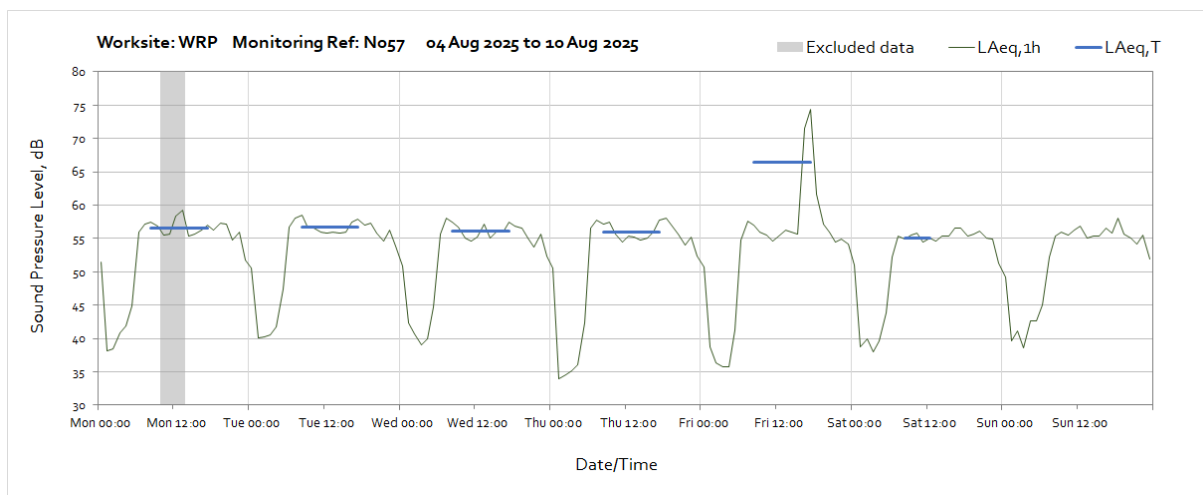
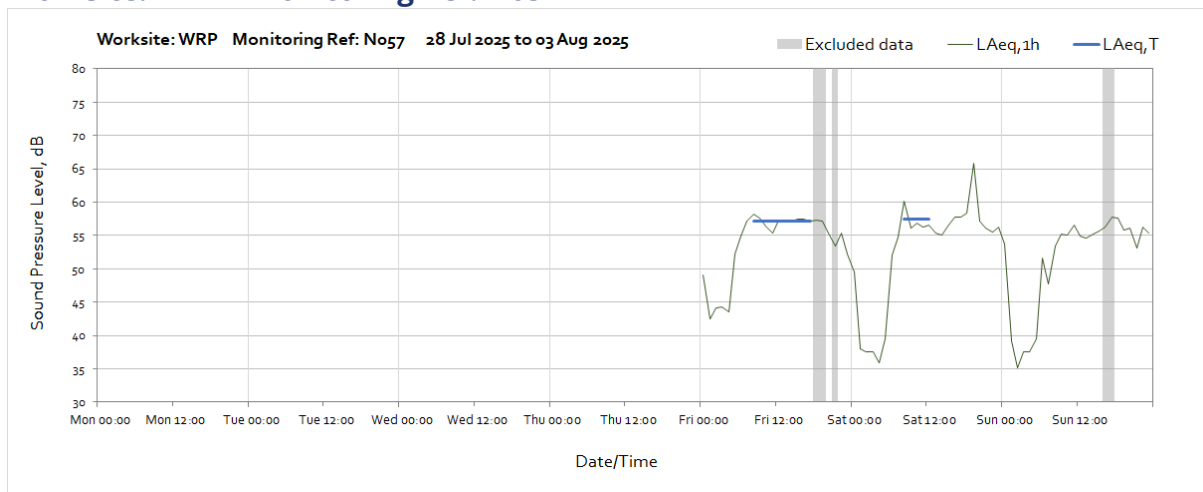


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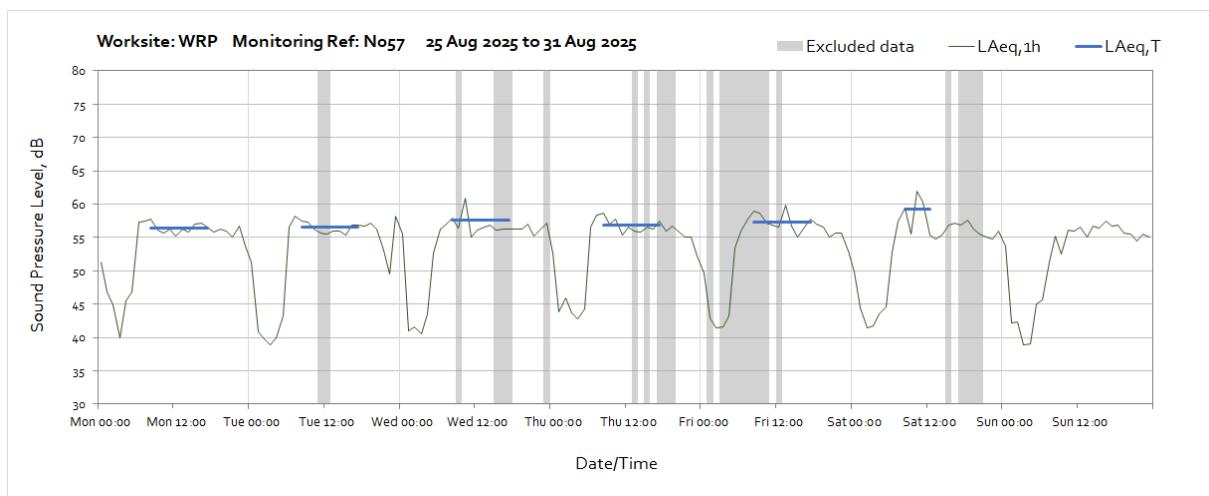
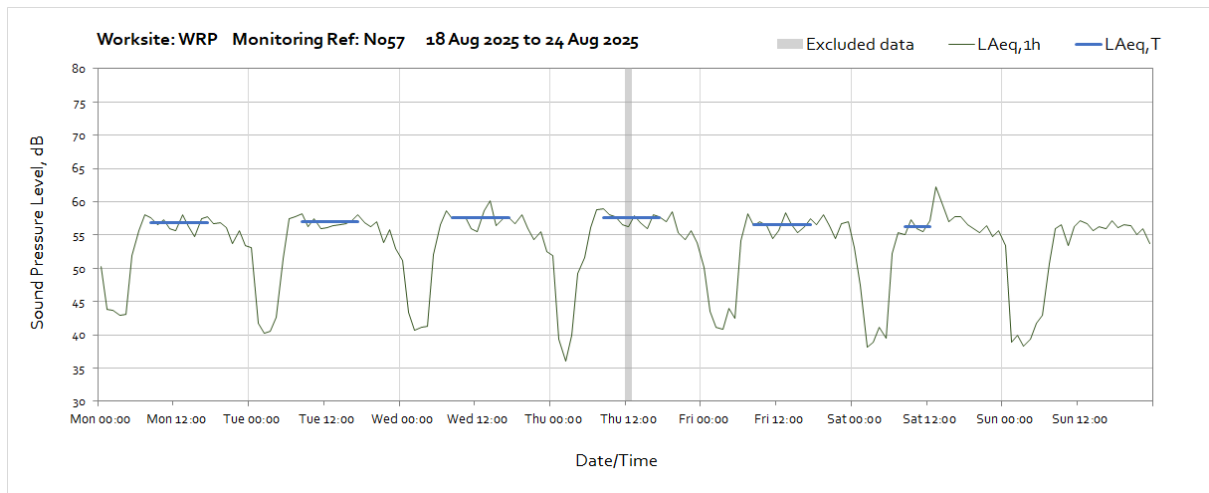




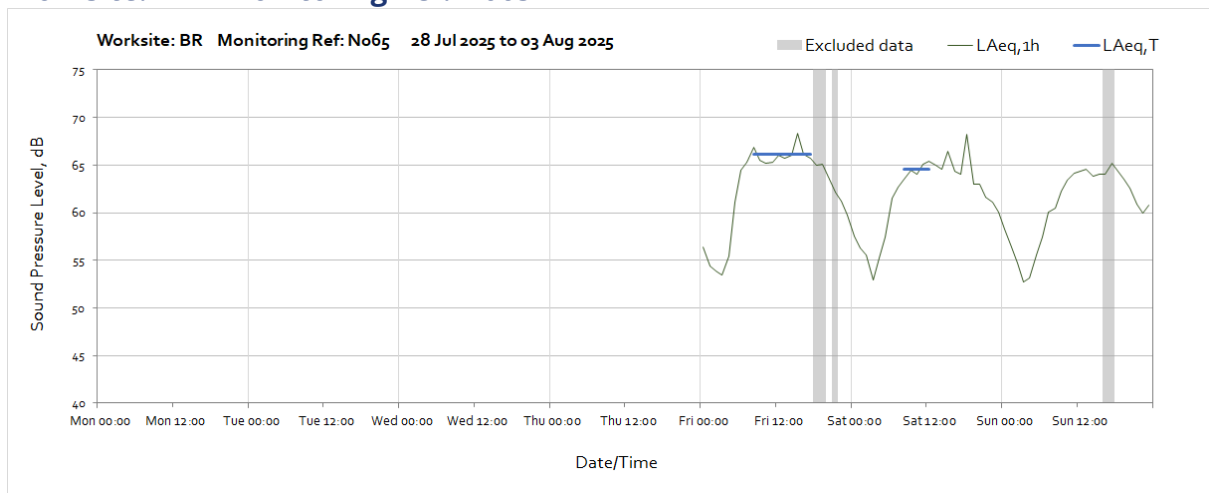
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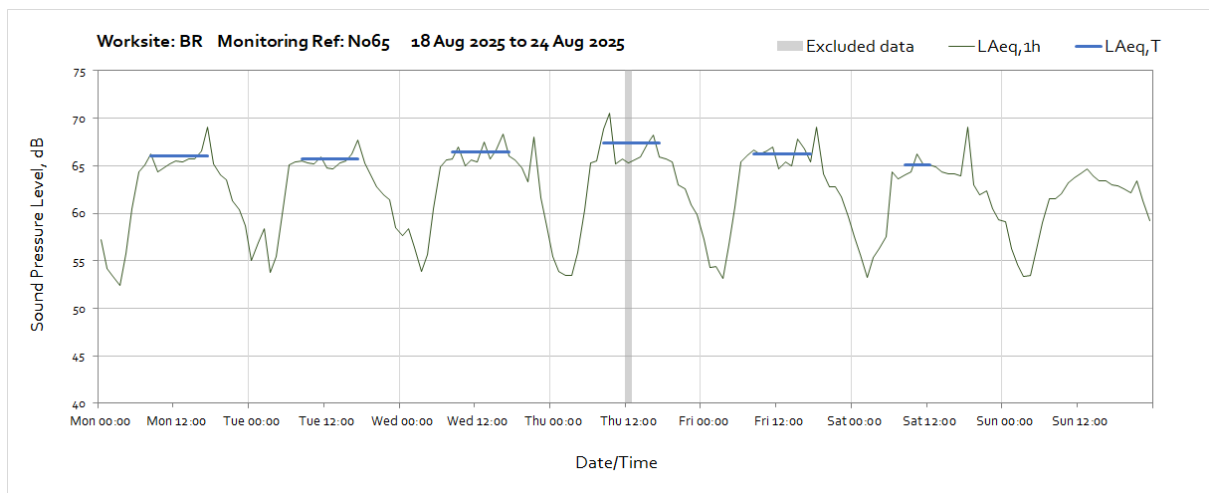
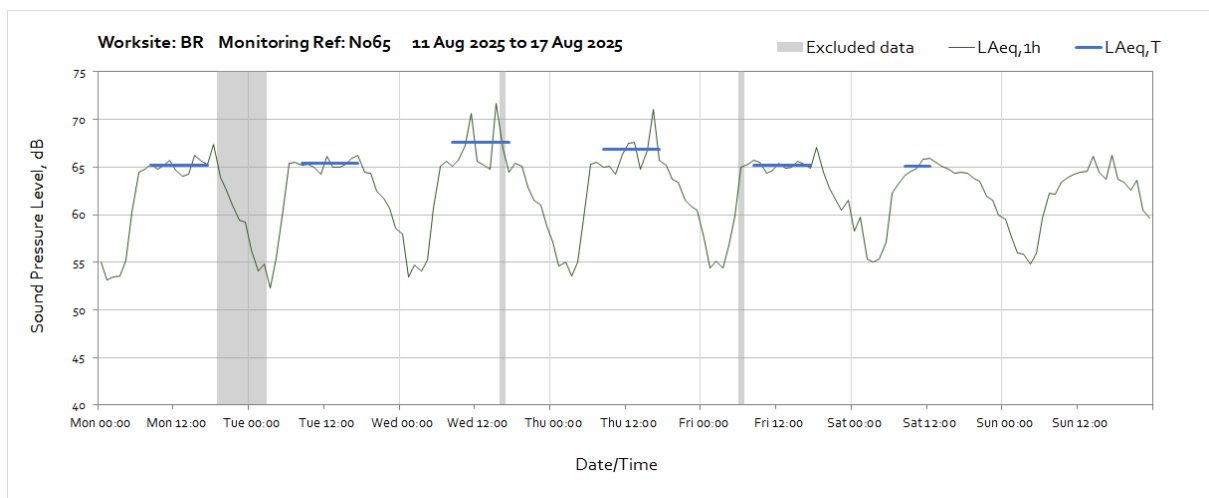
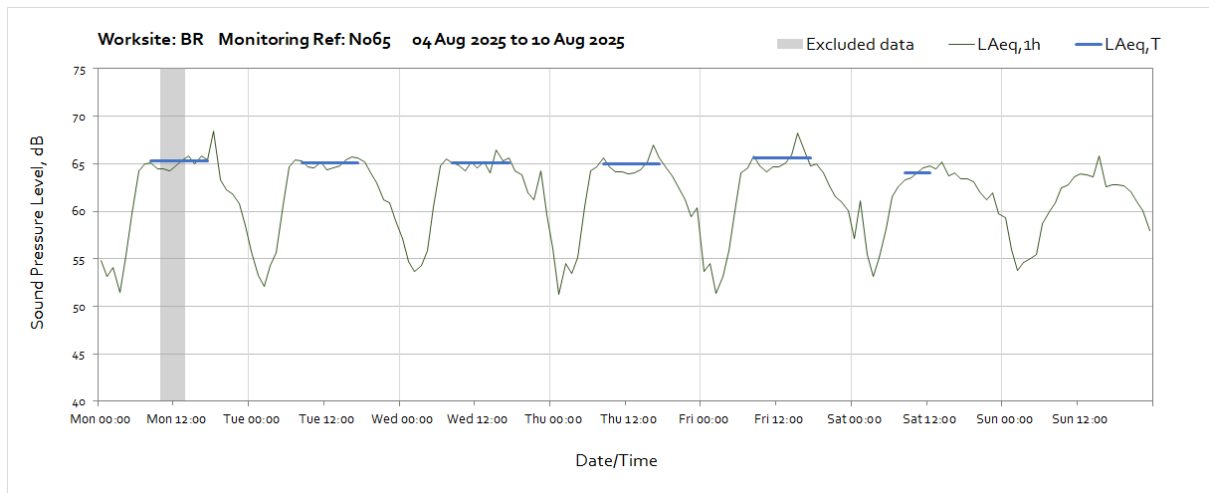


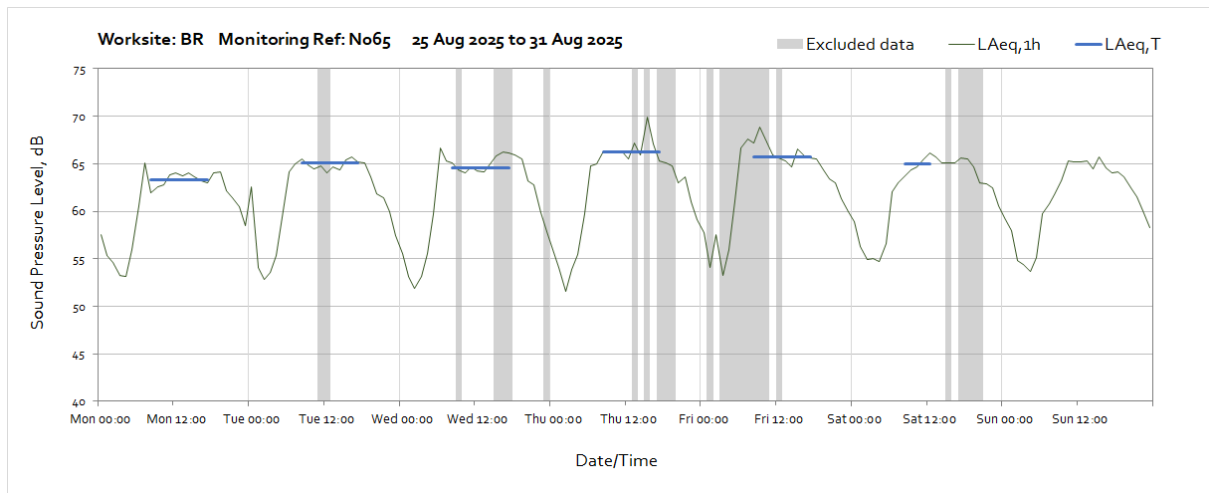
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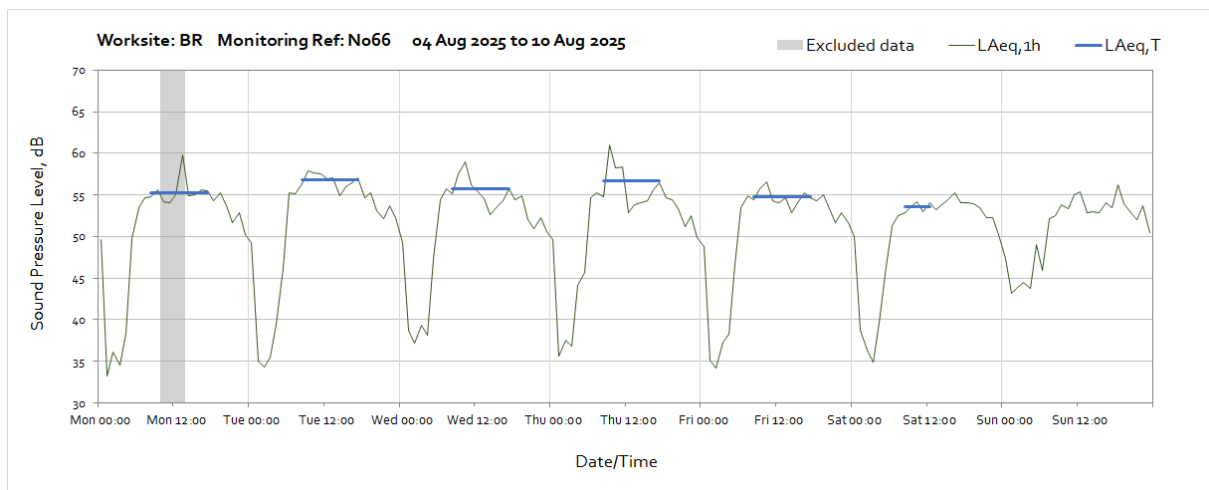
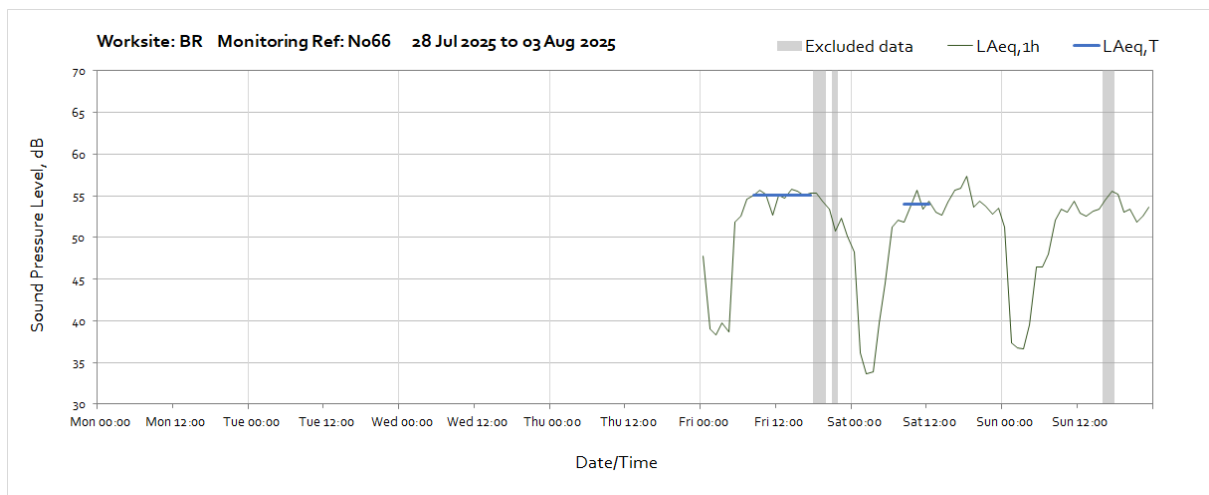
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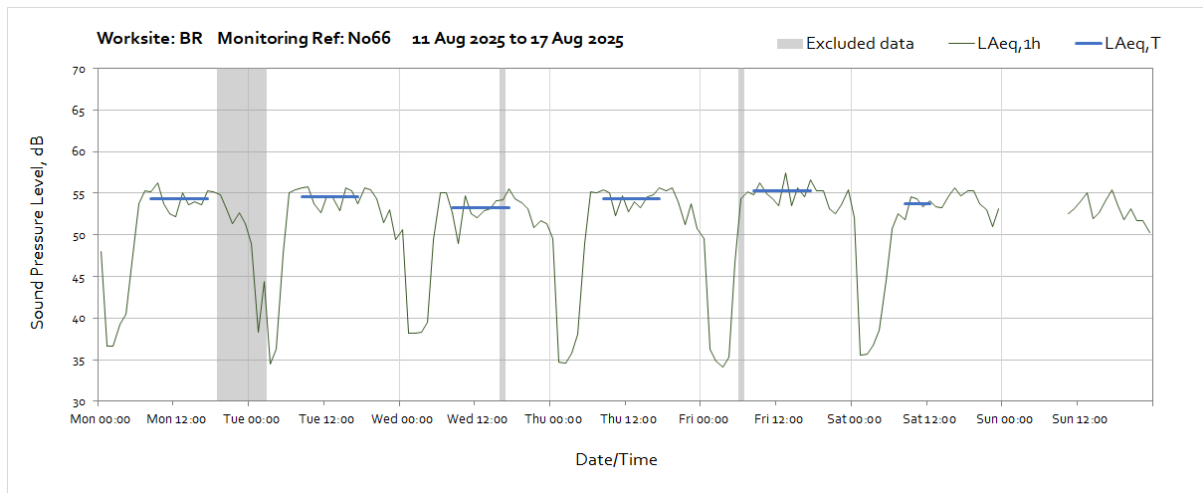




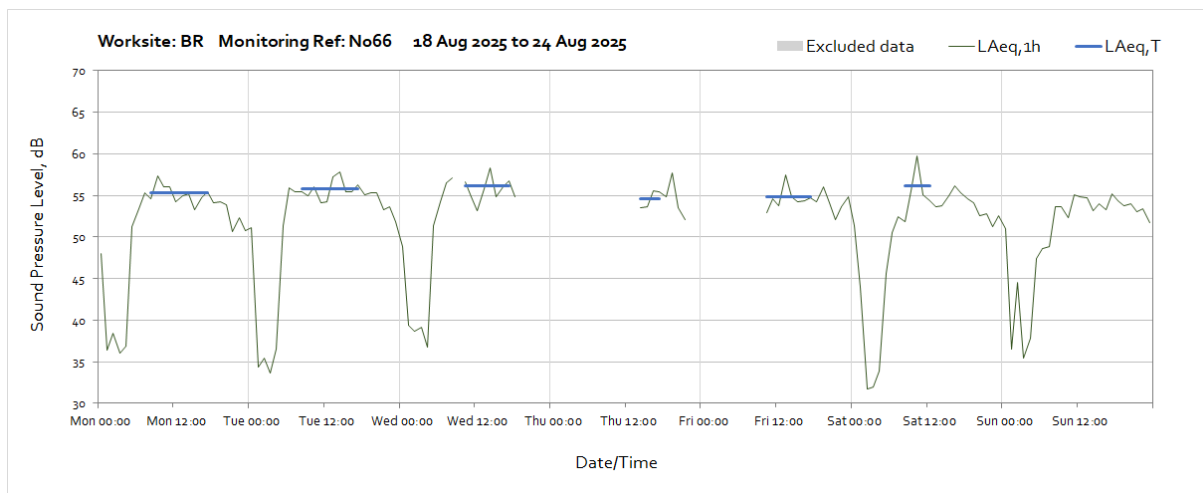


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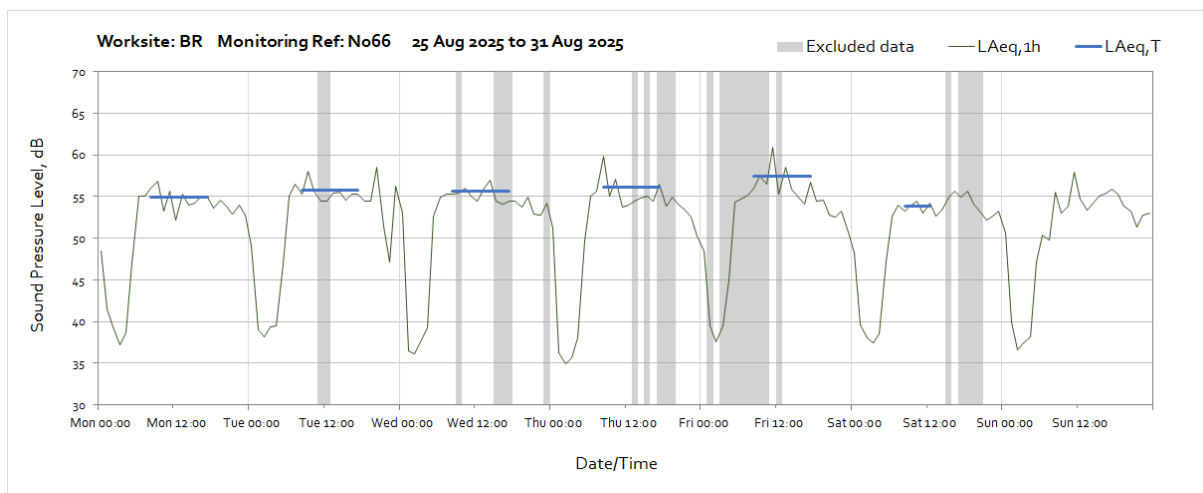




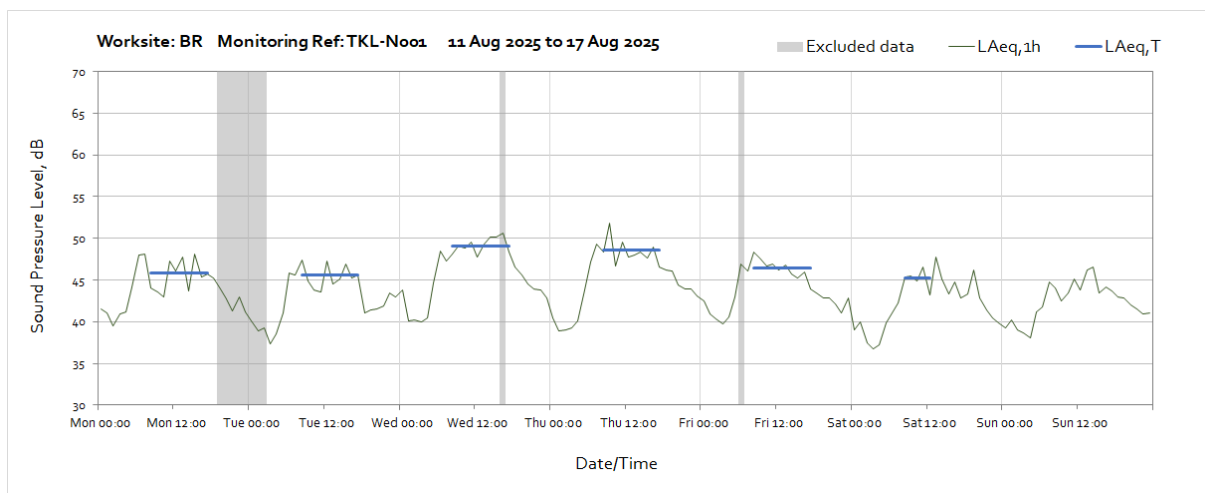
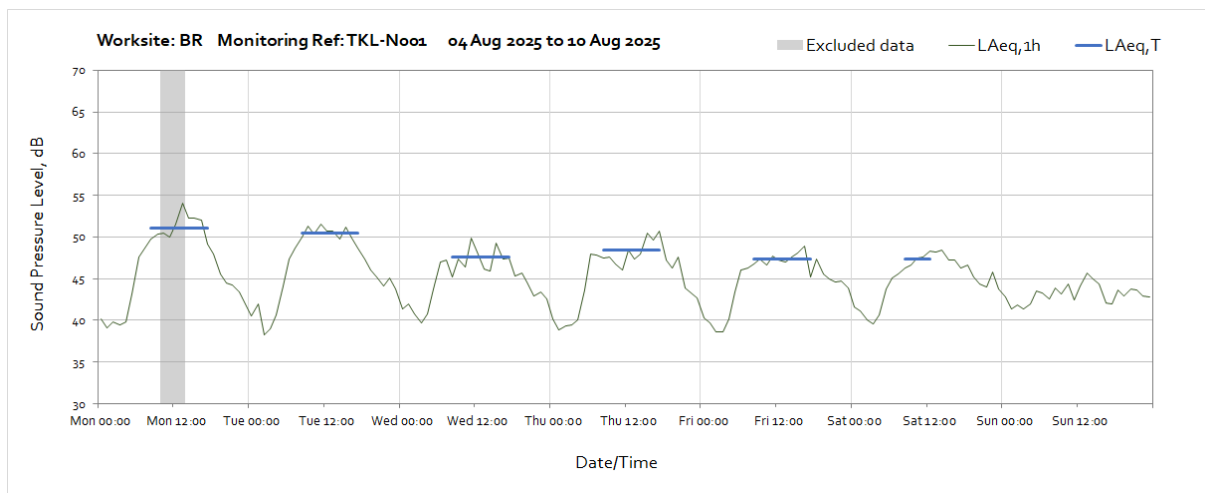
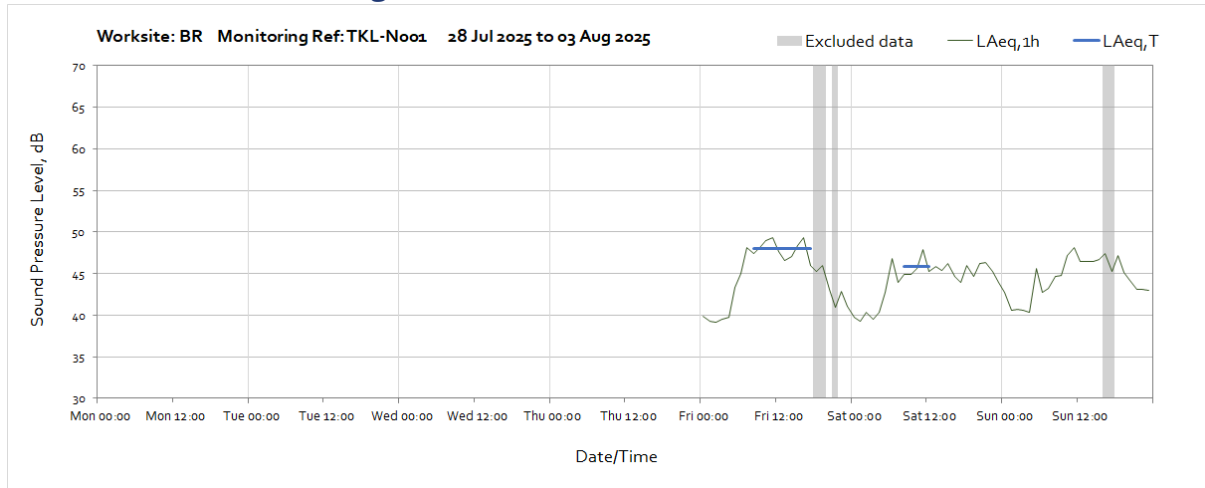
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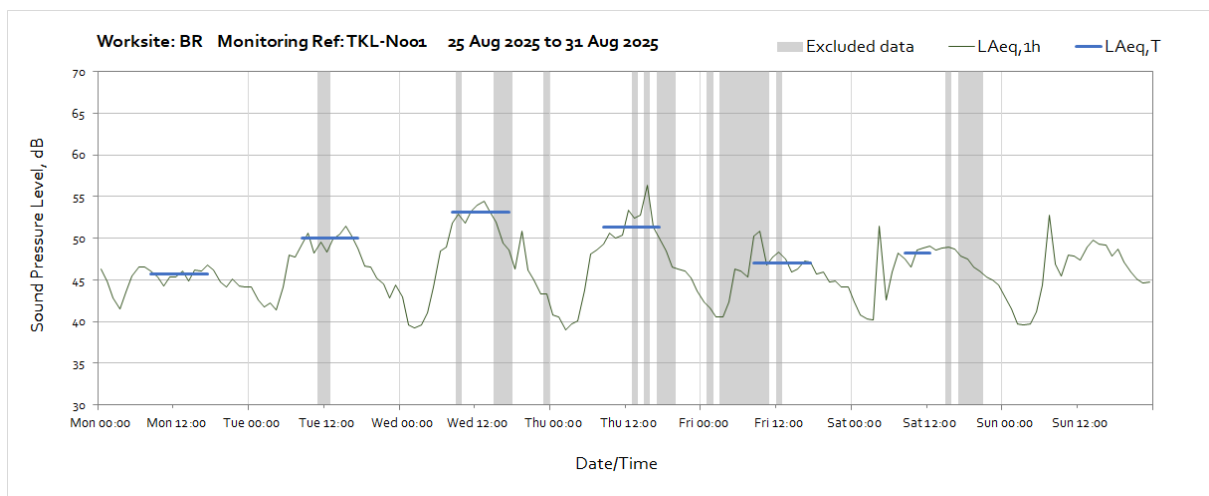
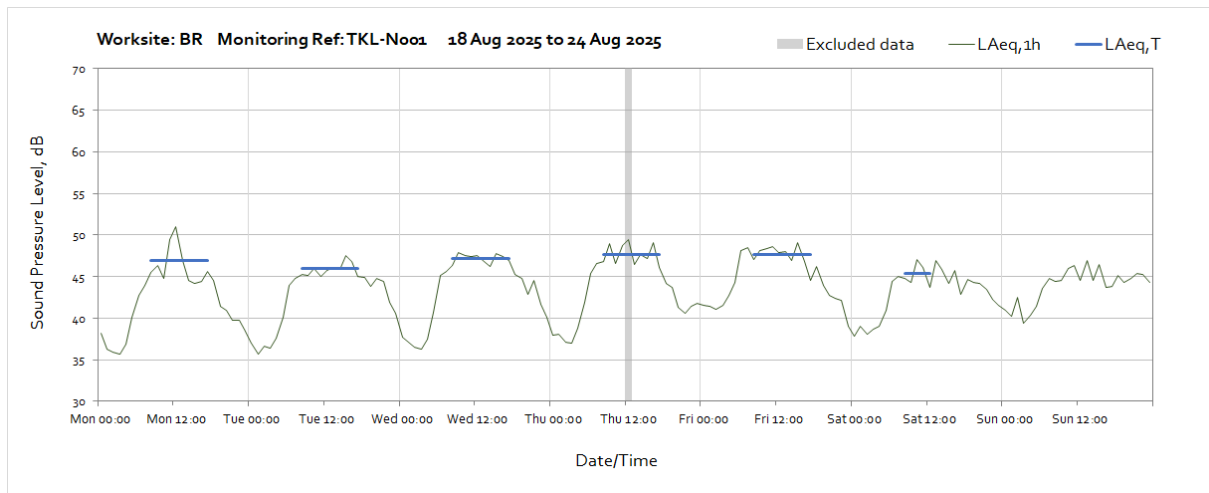
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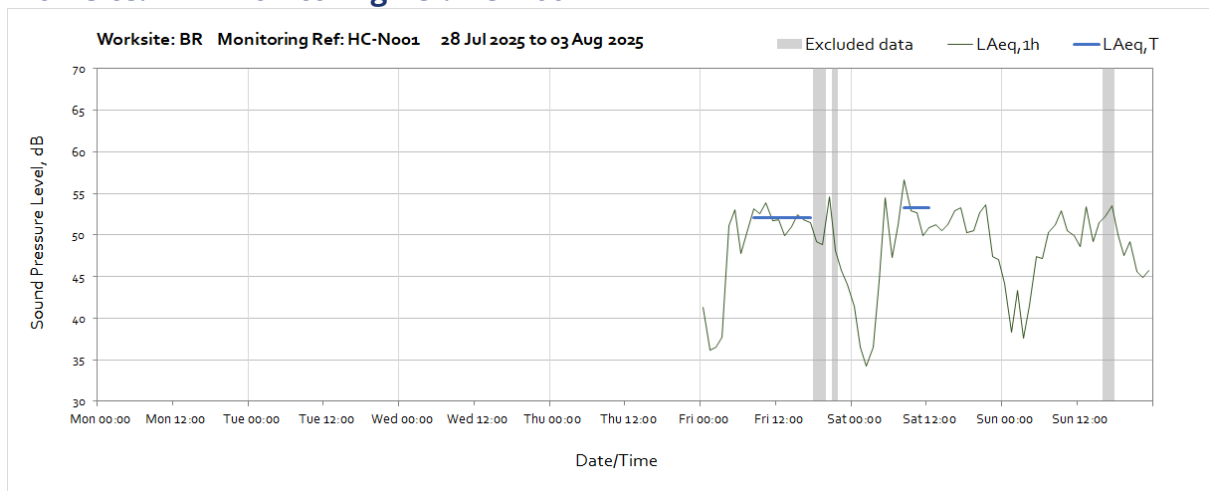
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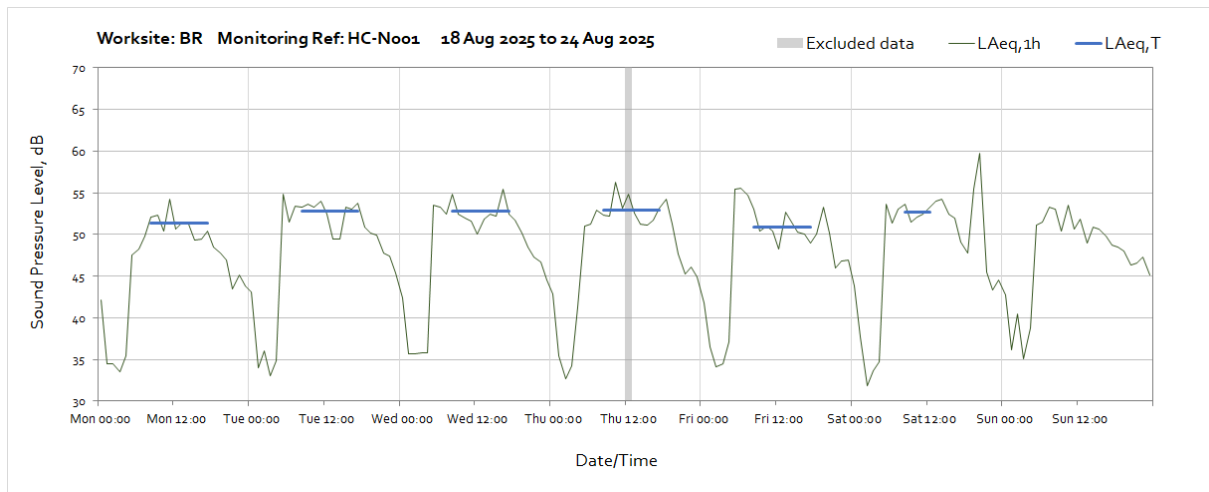
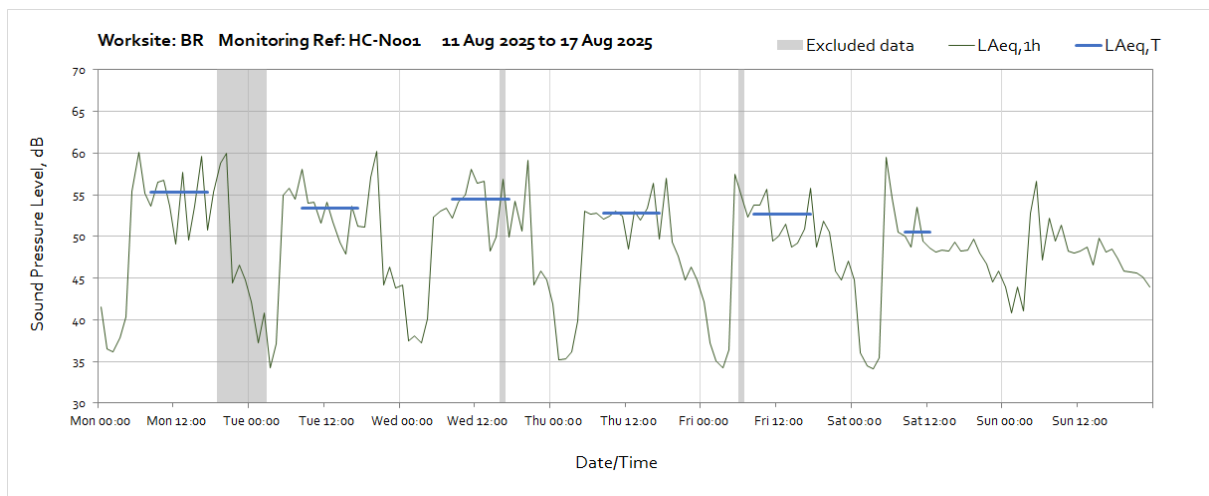
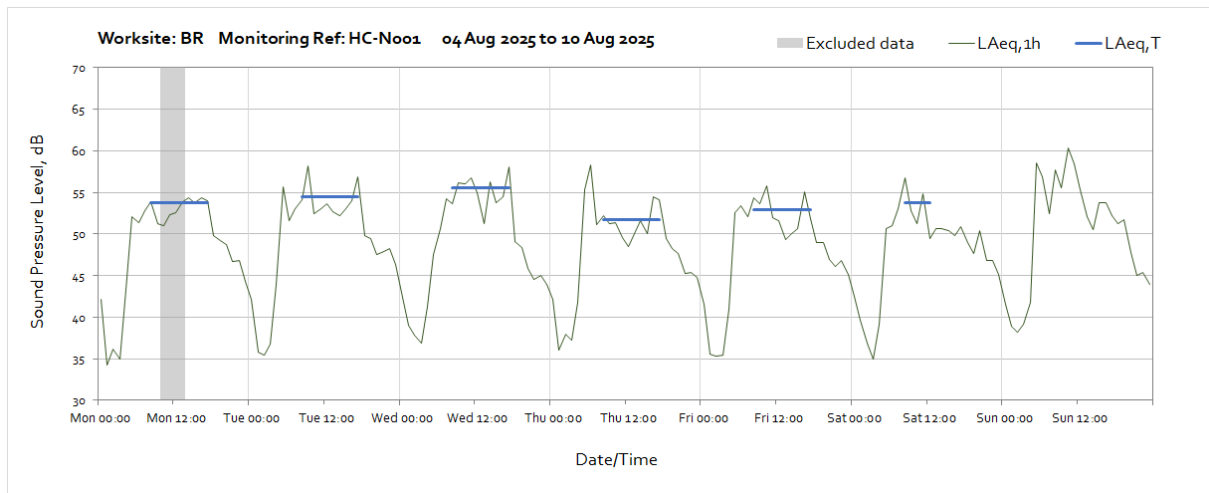


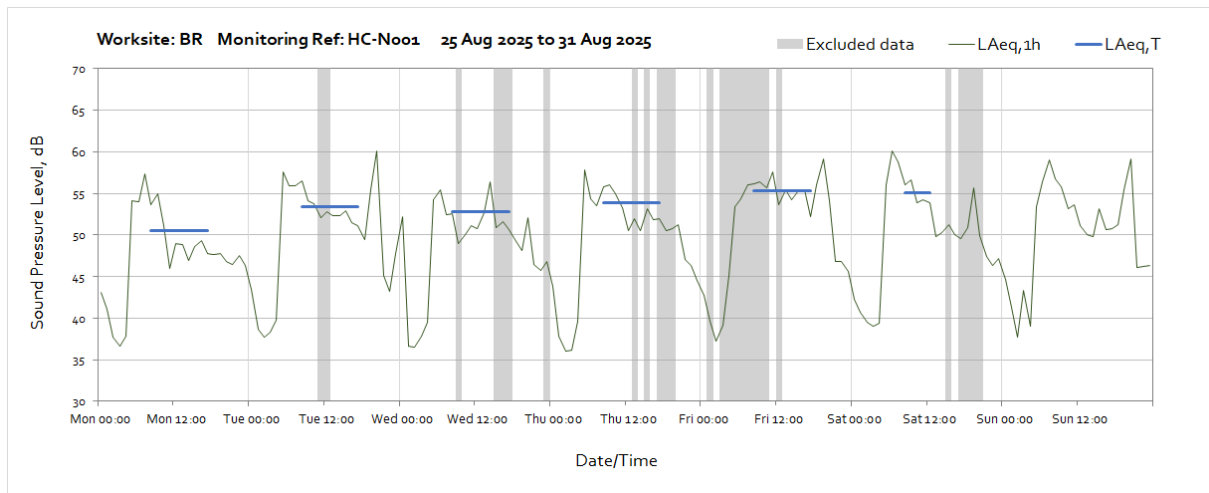
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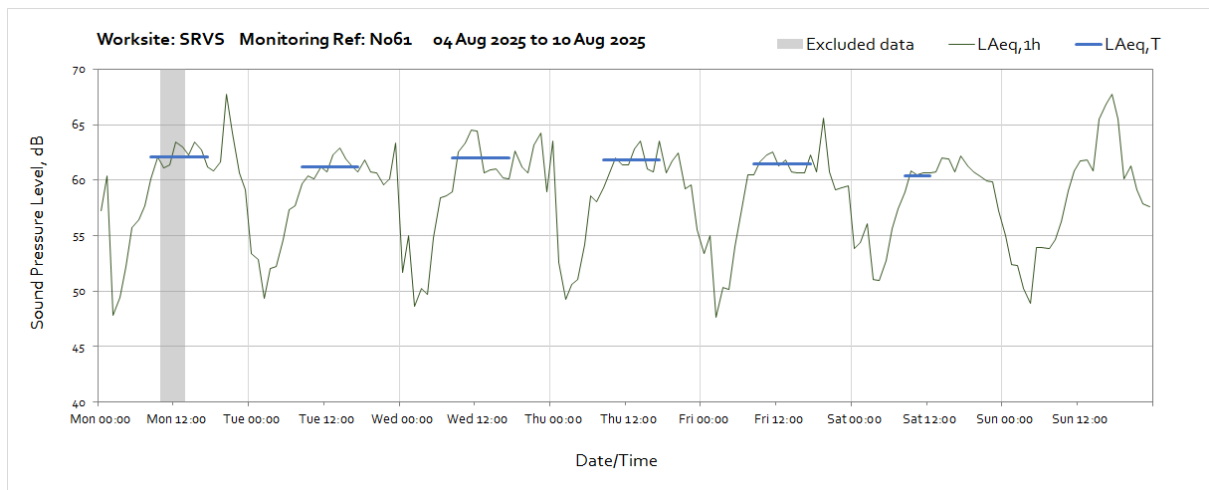
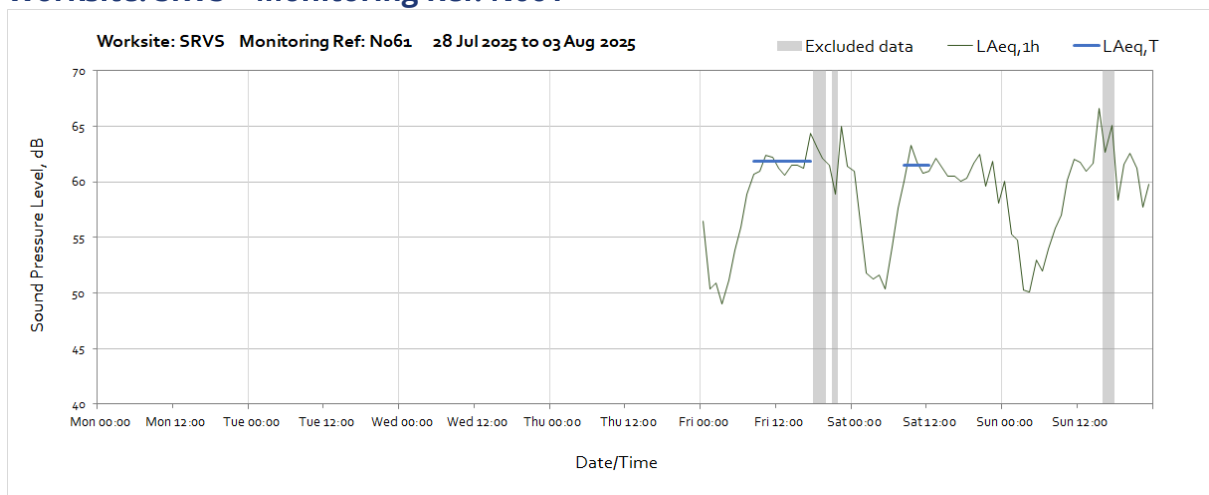
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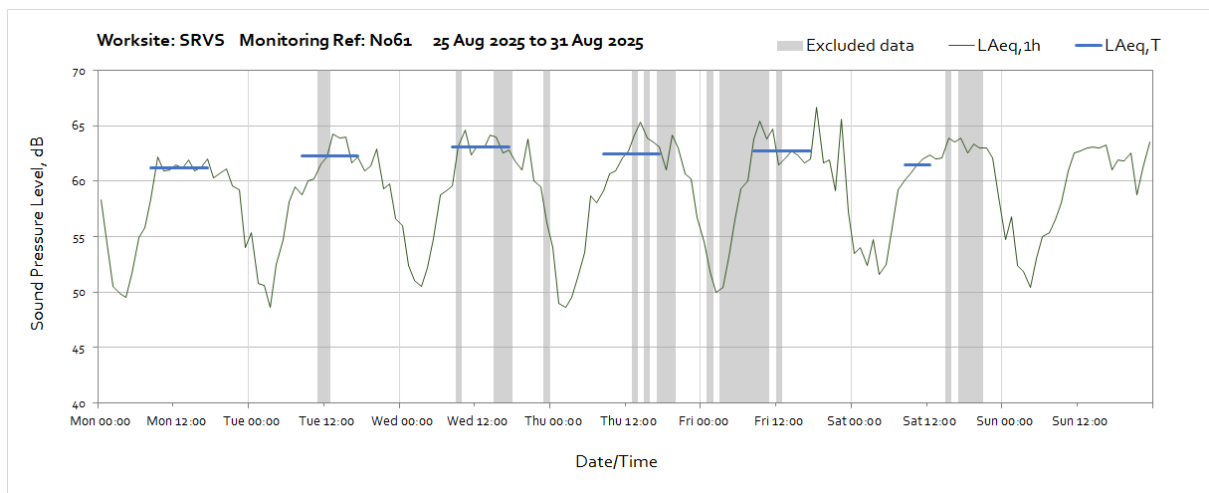
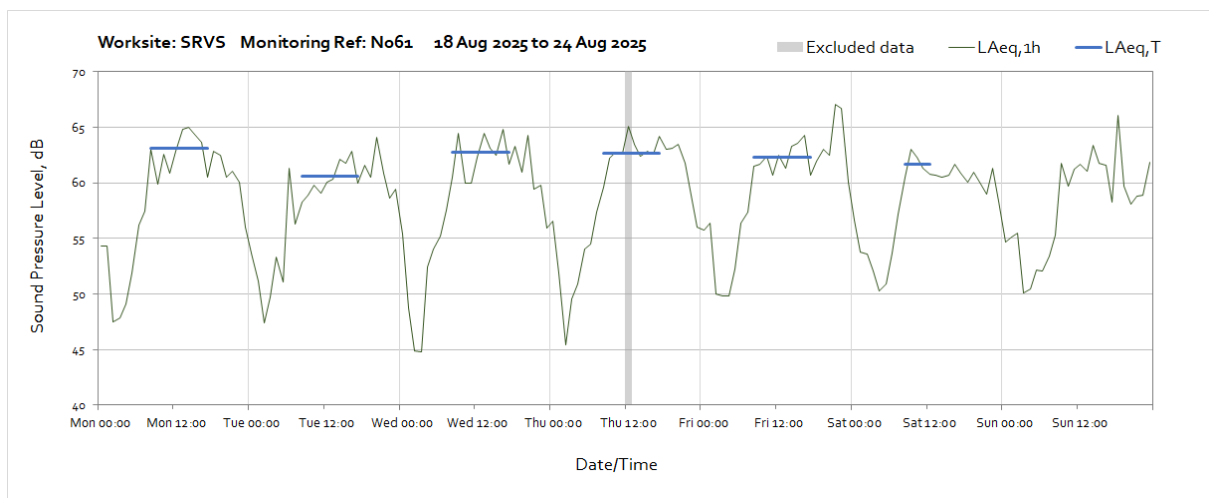
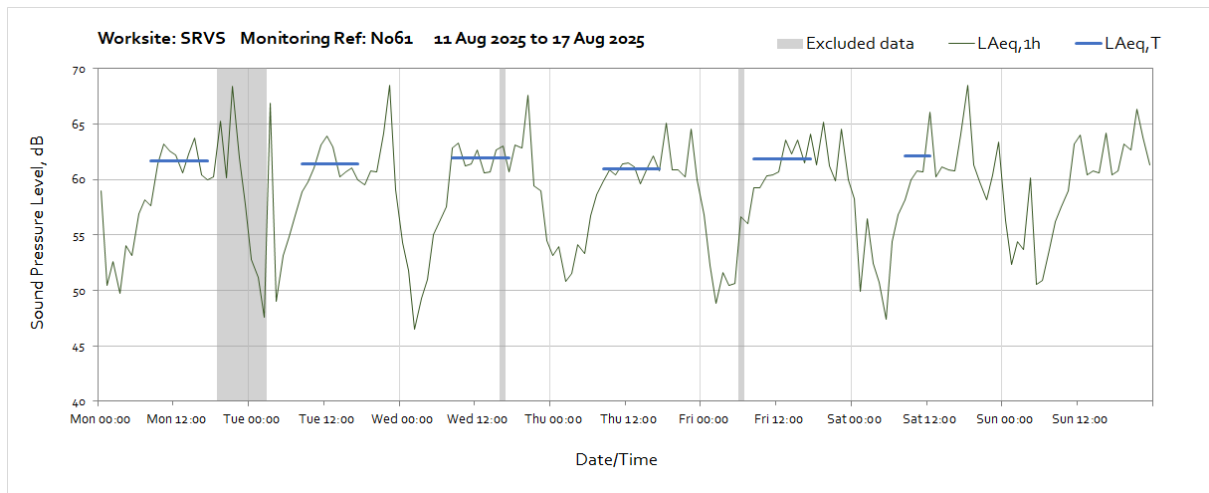




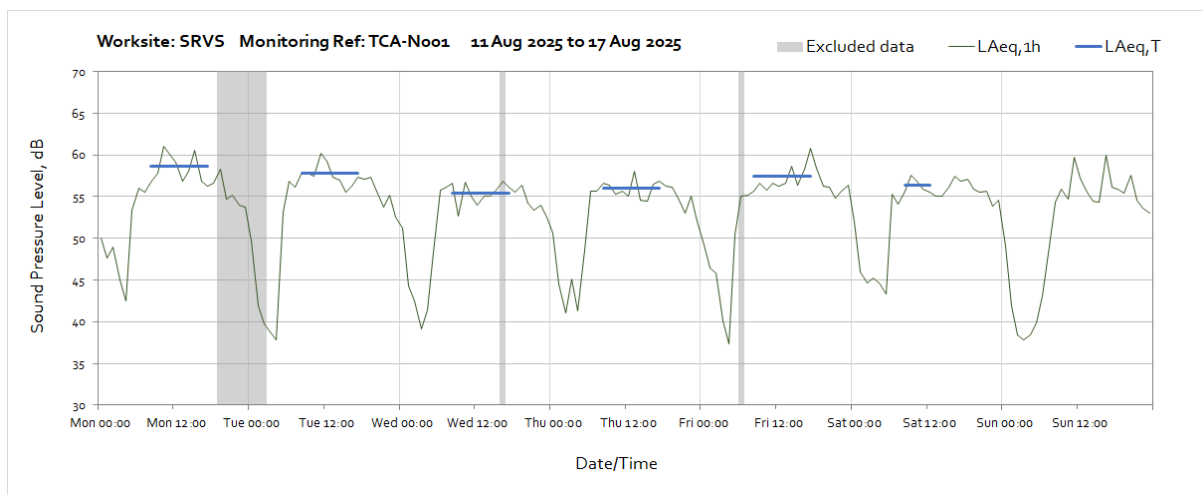
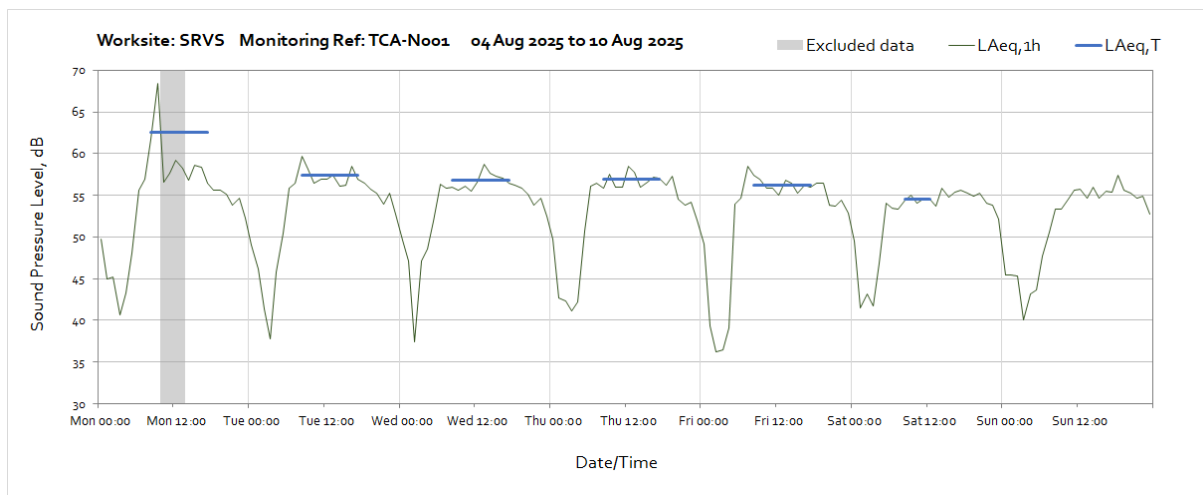
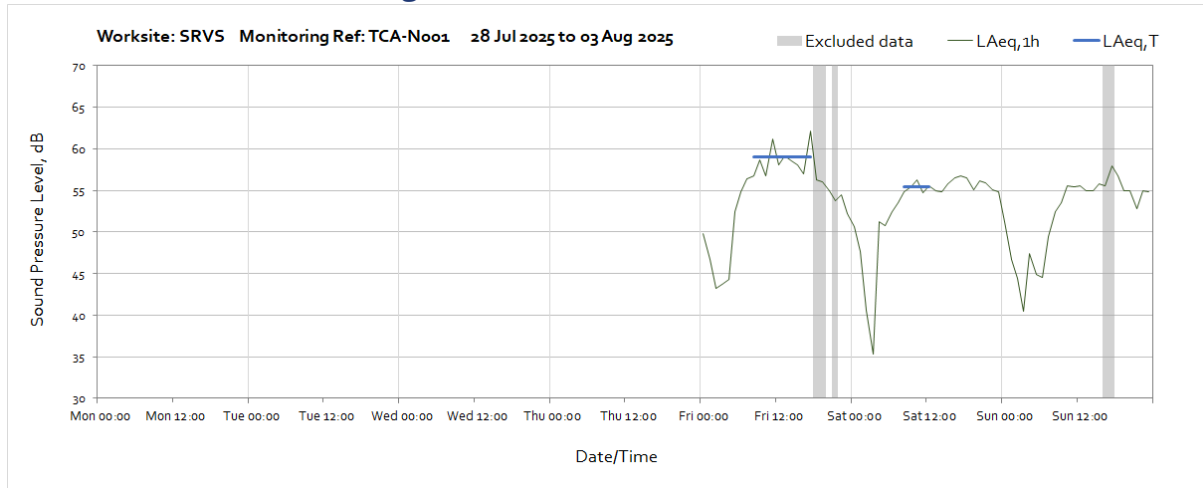


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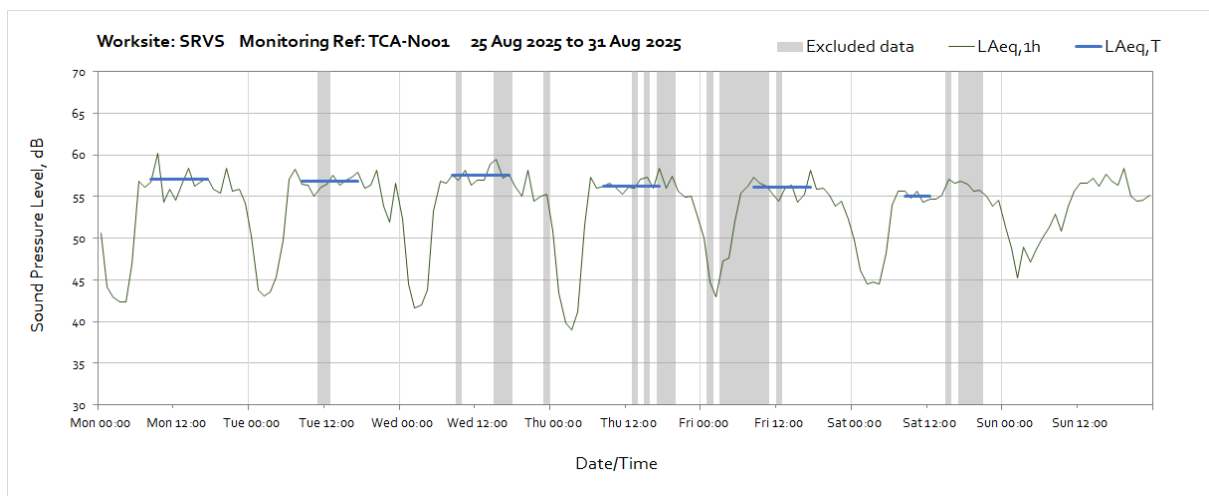
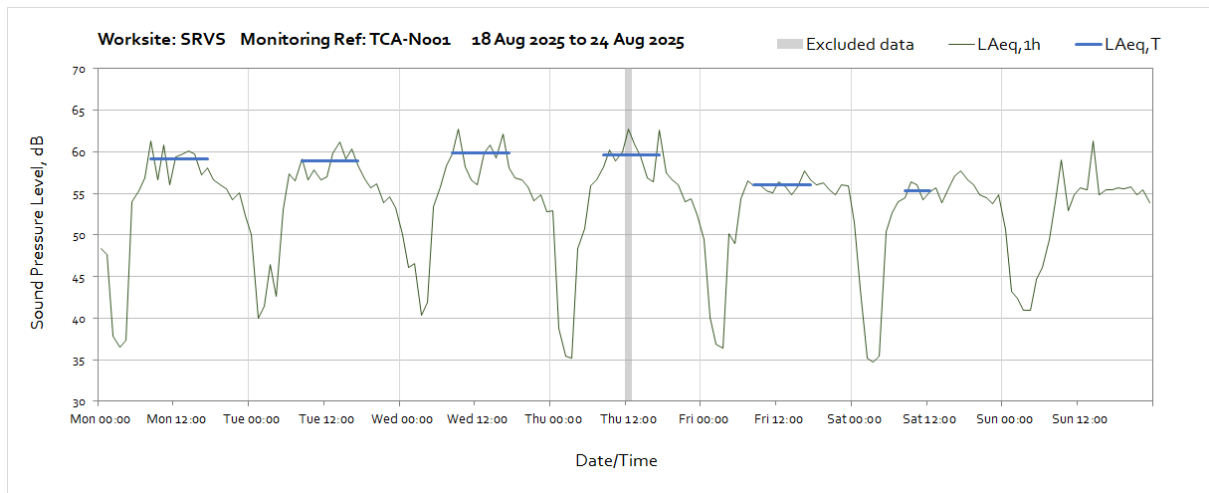




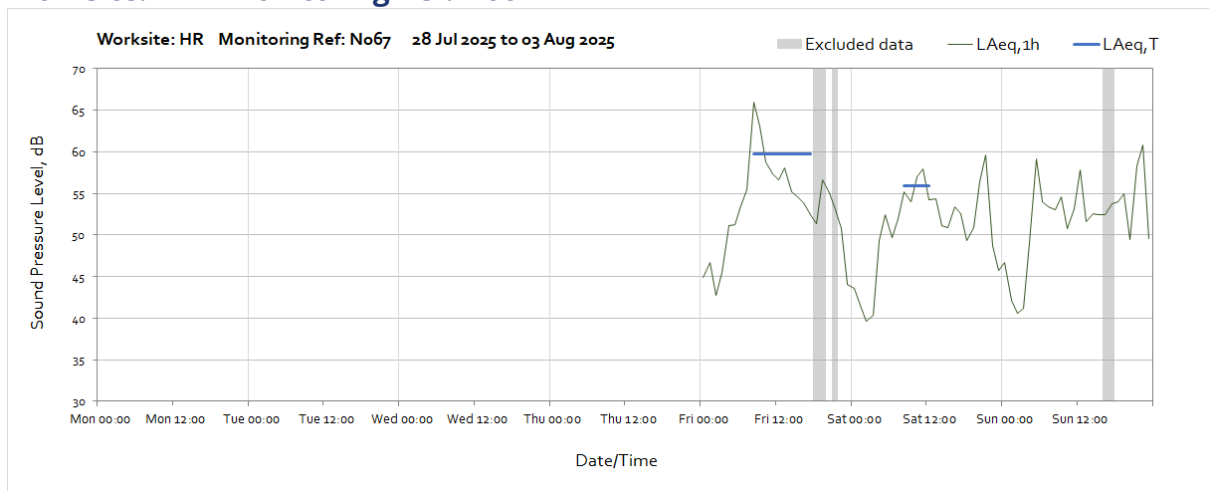
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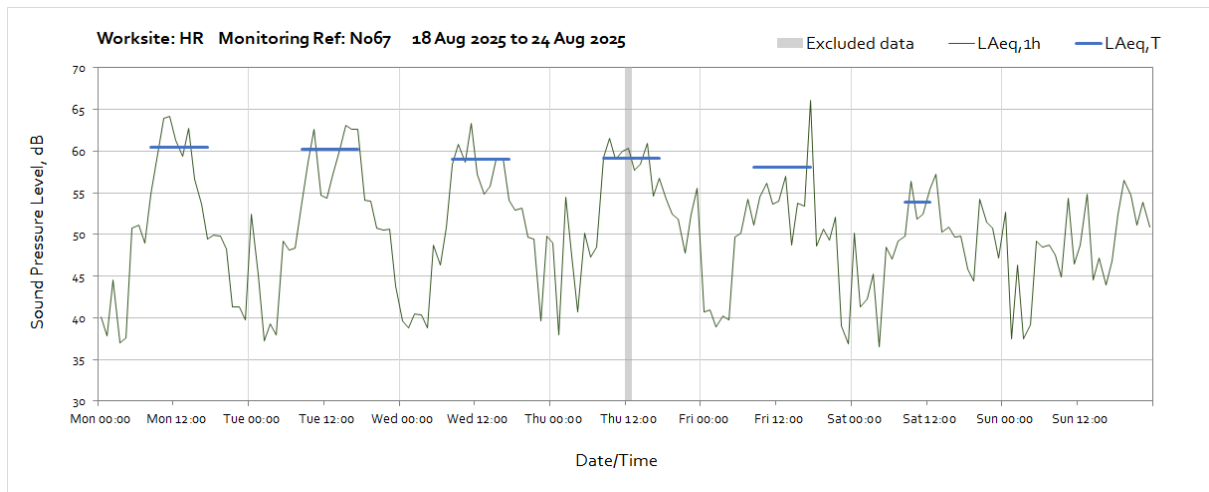
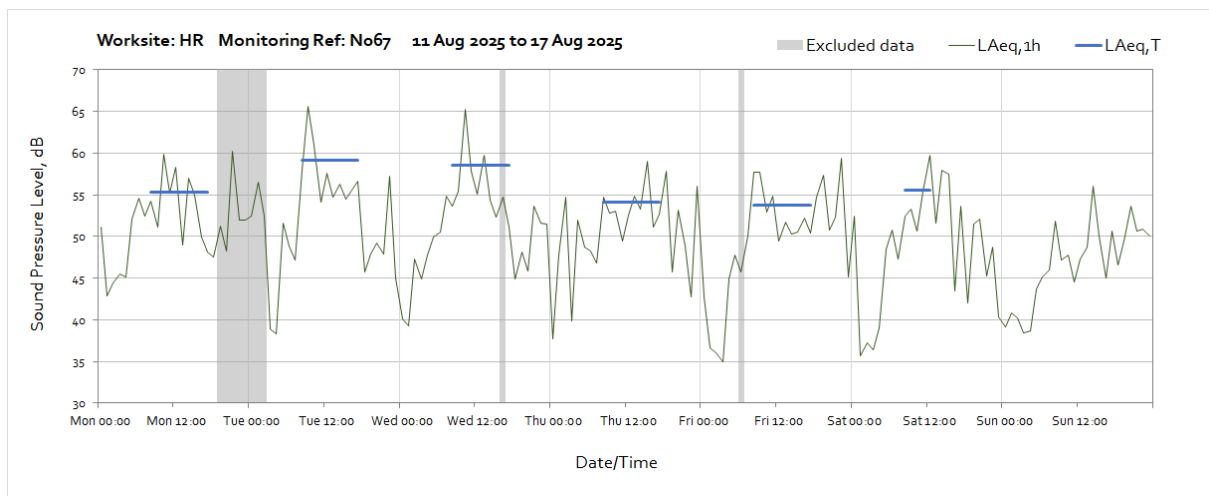
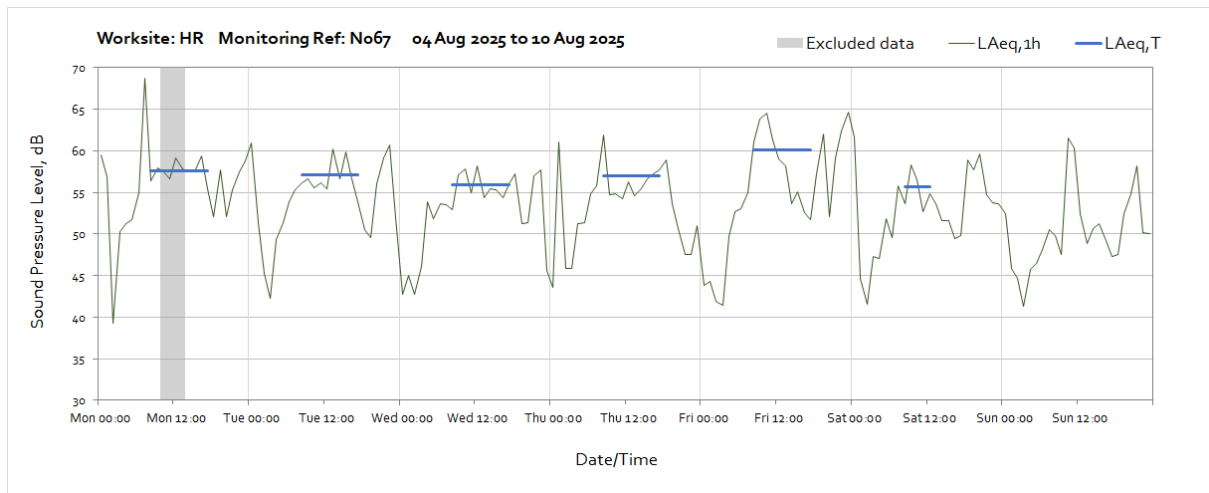


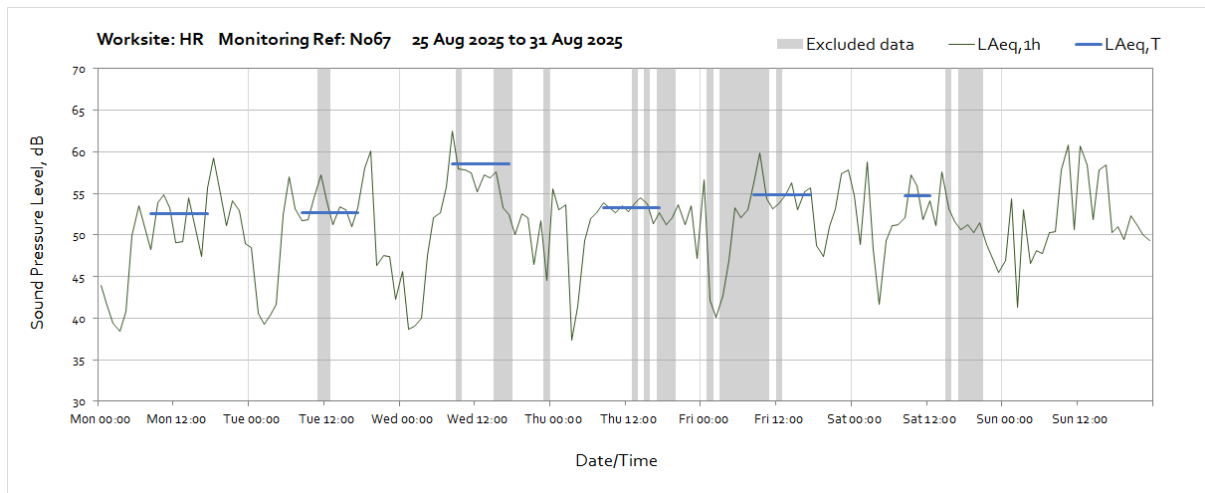
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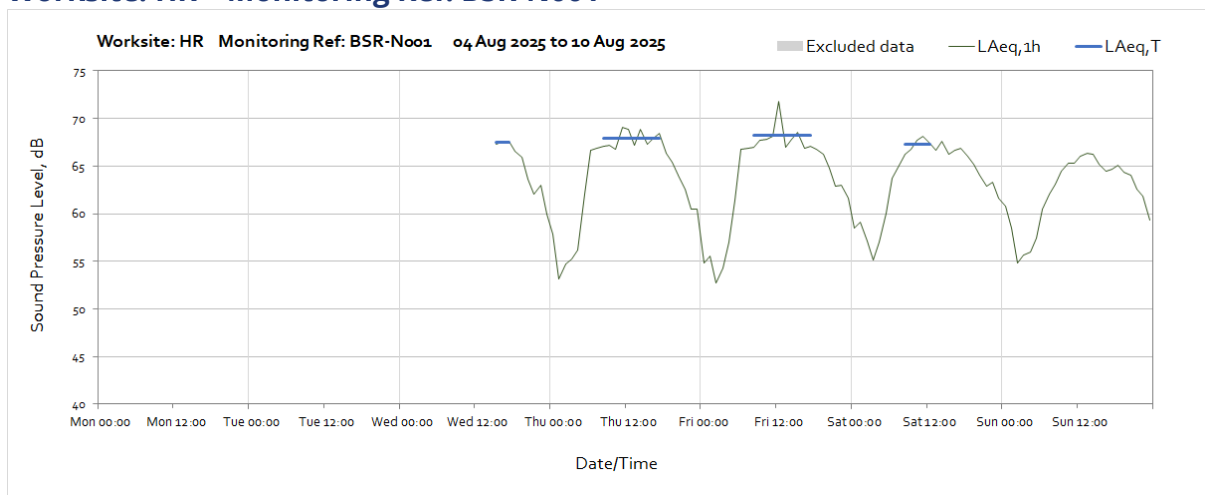
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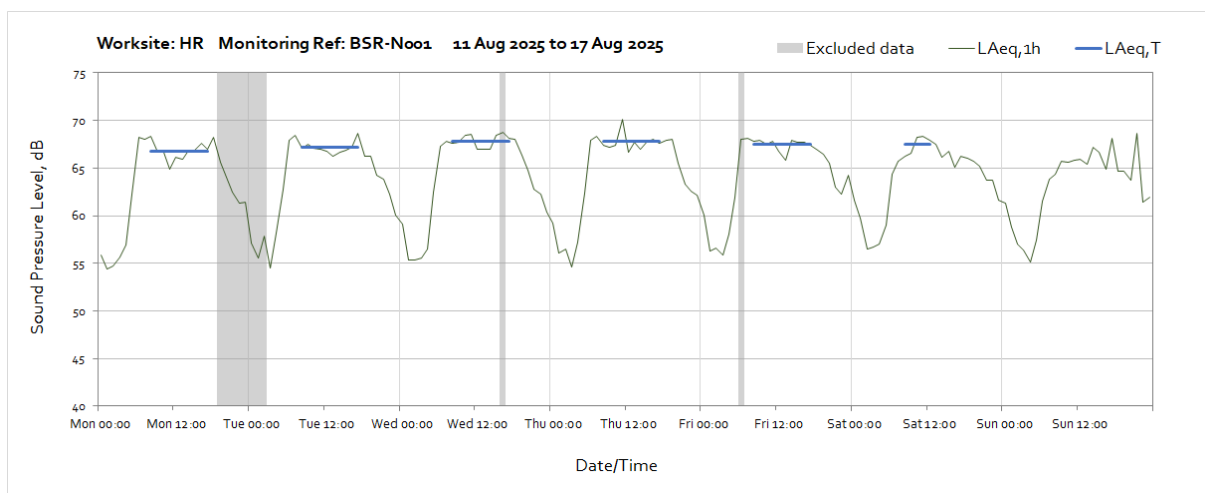


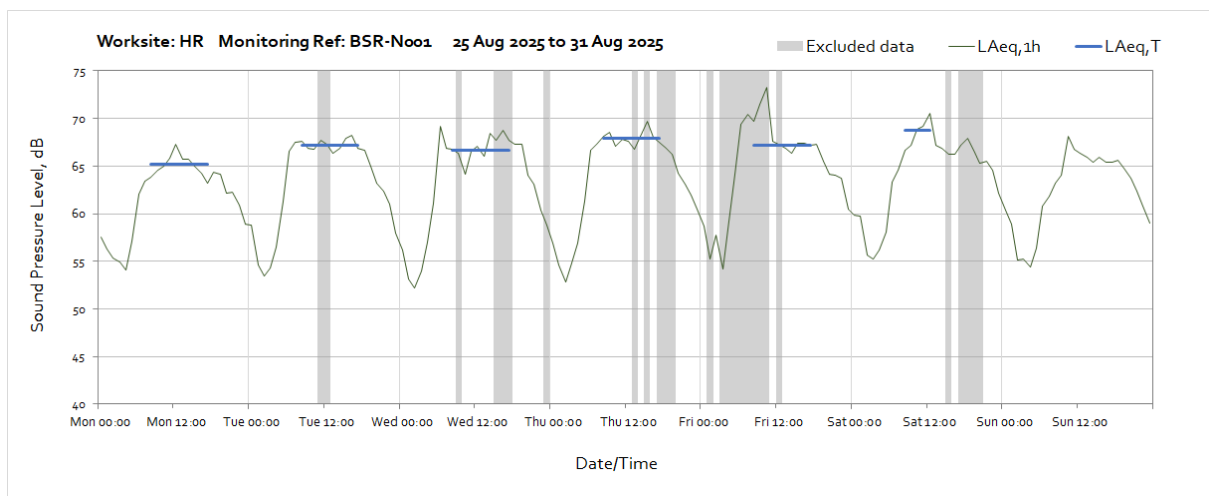
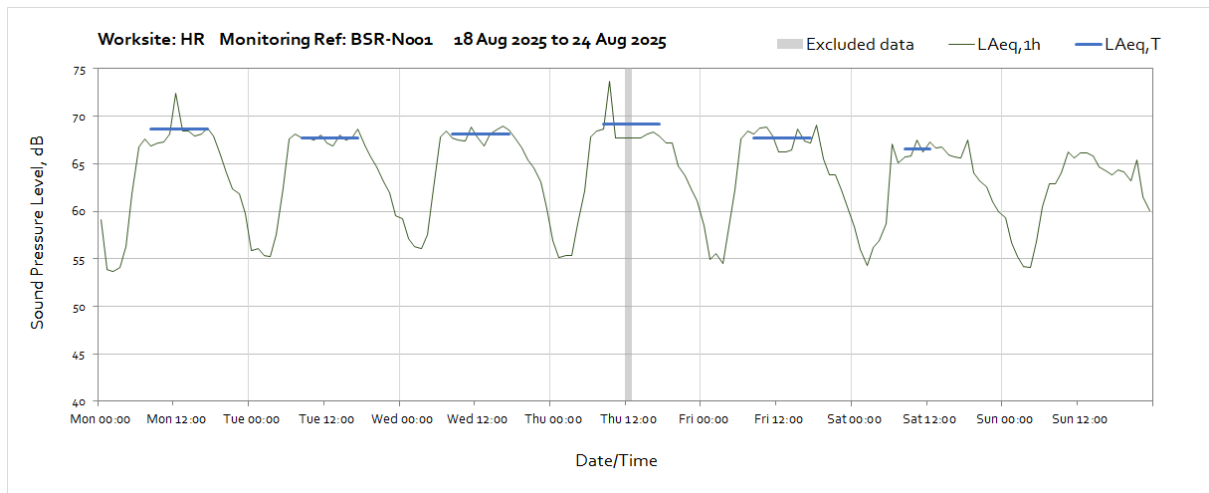


Worksite: HR – Monitoring Ref: BSR-N001

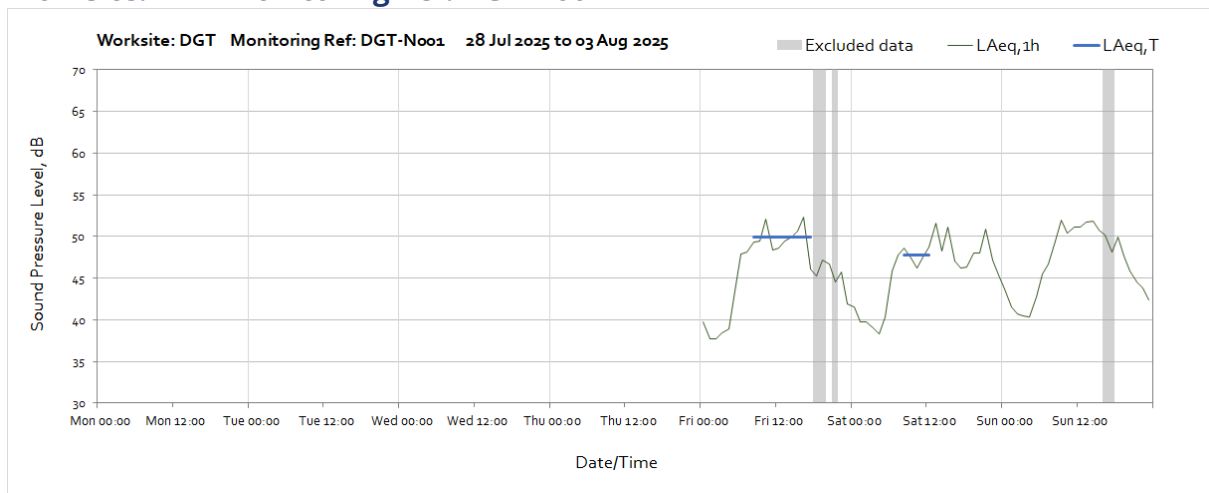


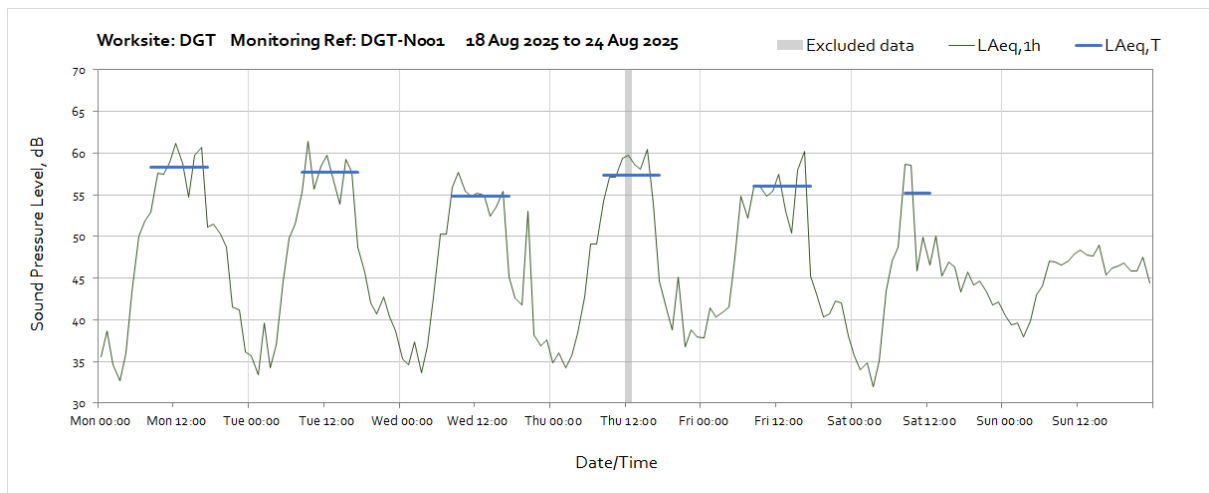
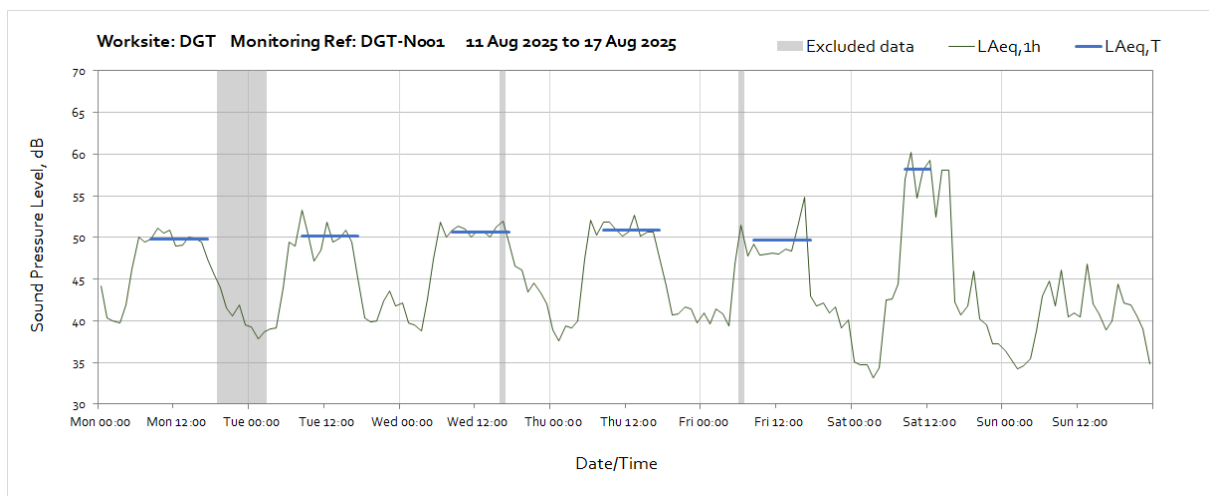
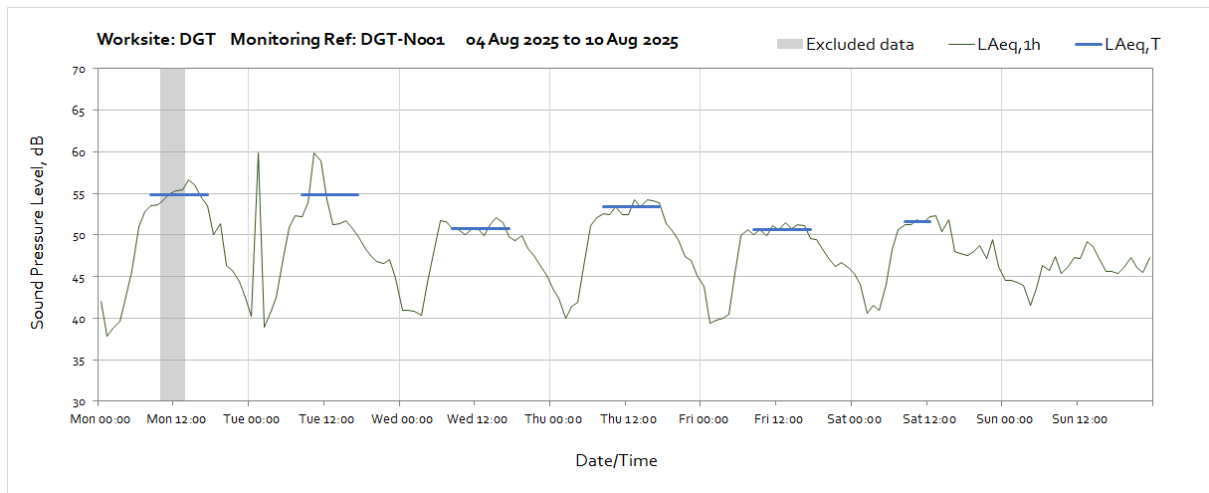
Note: Missing data from the start of the month until 15:00 on Wednesday 6th August was due to a fault with the monitoring station.

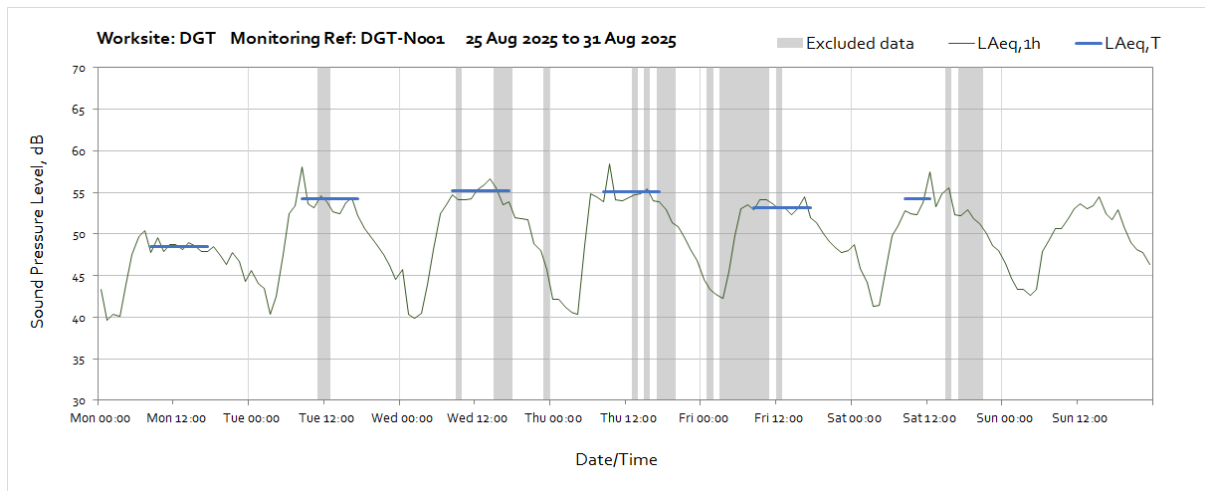




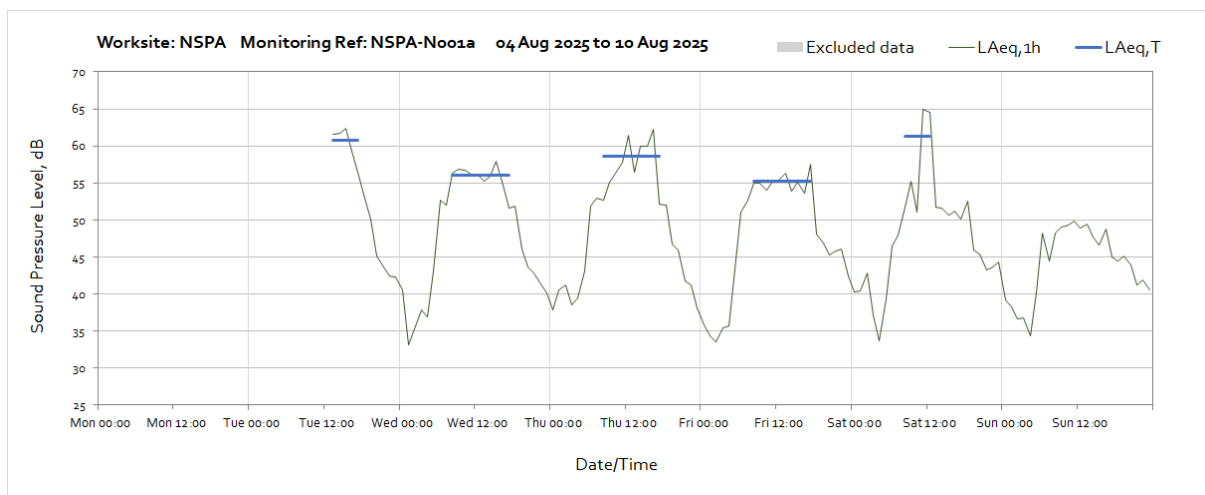
Worksite: HR – Monitoring Ref: DGT-N001



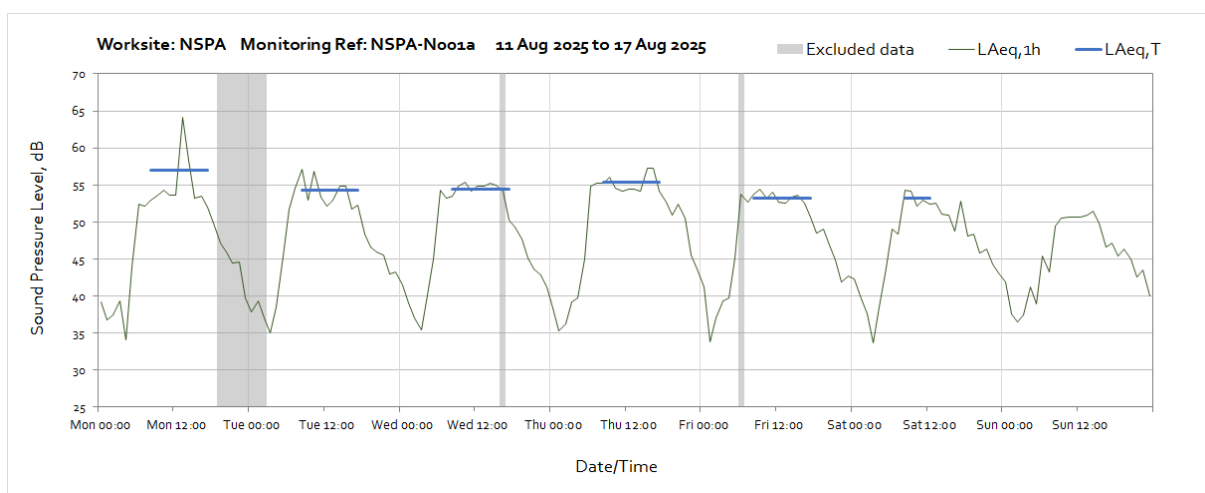


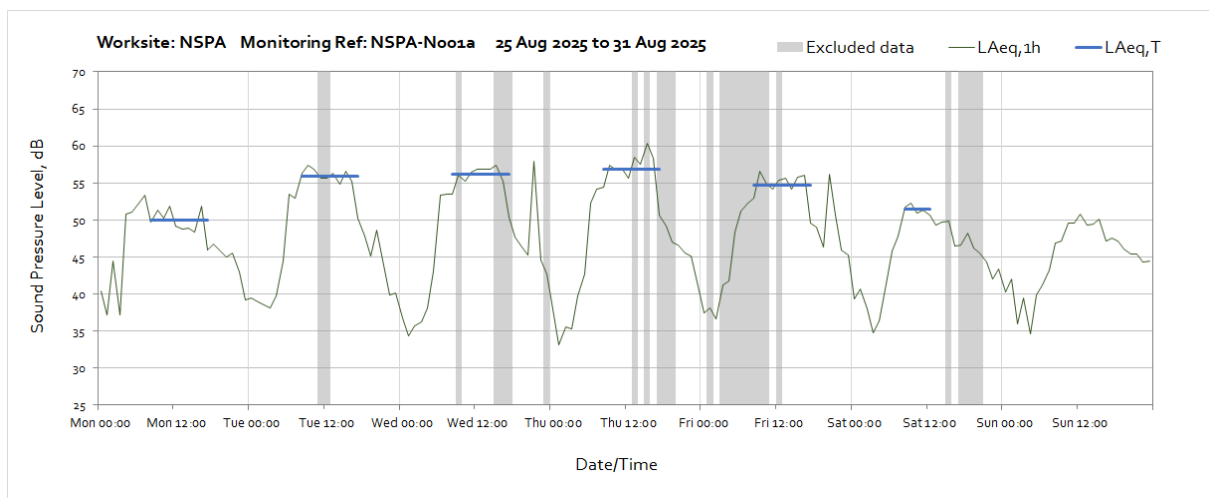
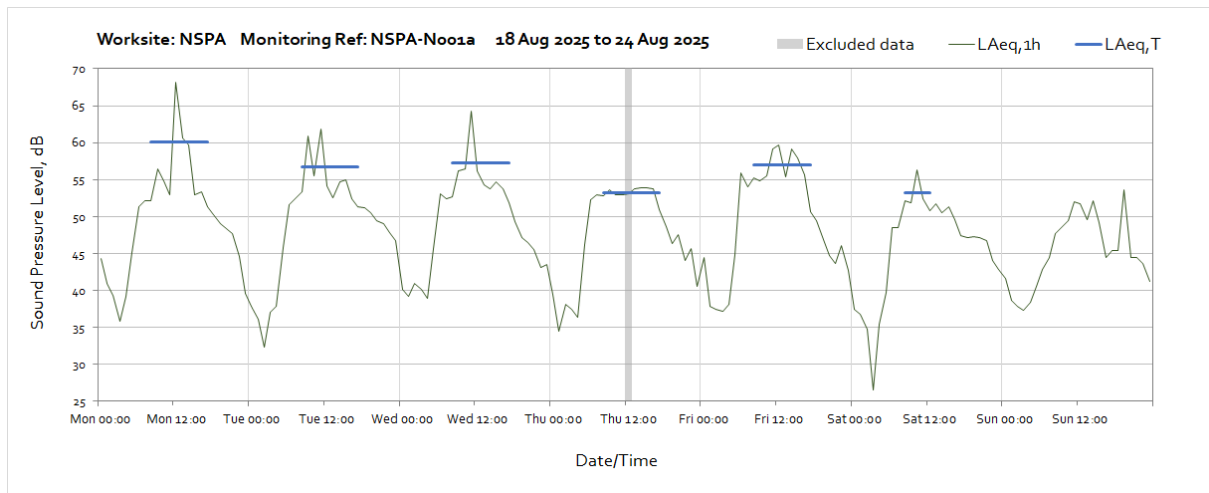


Worksite: NSPA – Monitoring Ref: NSPA-N001a

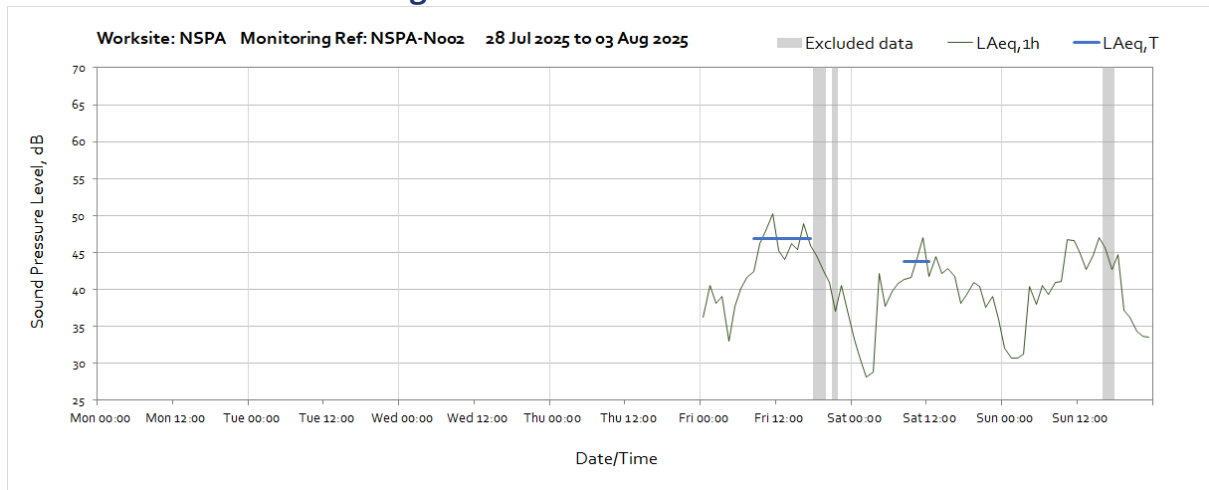


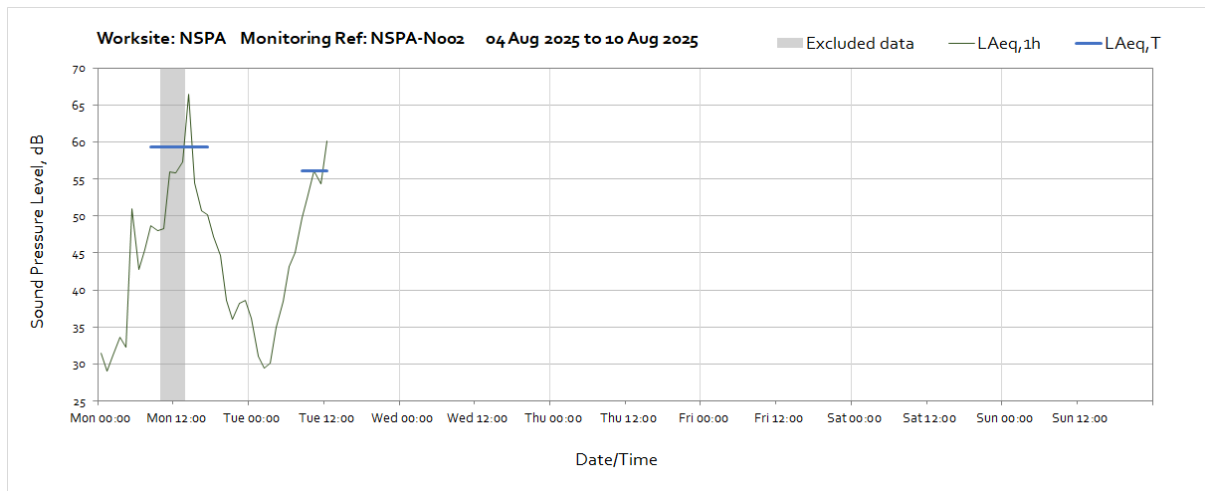
Note: Monitoring station was installed at 13:00 on Tuesday 5th August.





Worksite: NSPA – Monitoring Ref: NSPA-N002



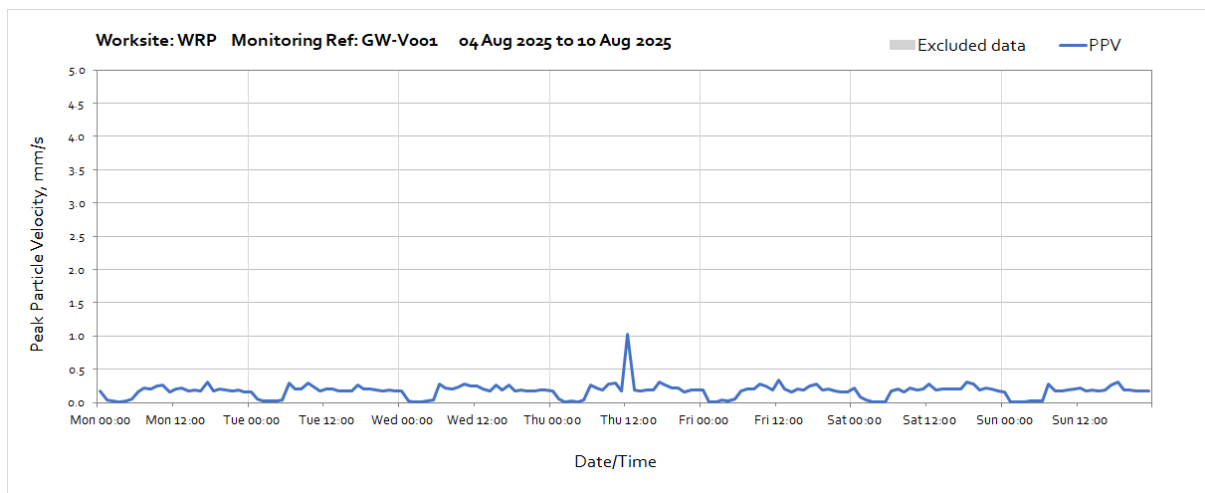
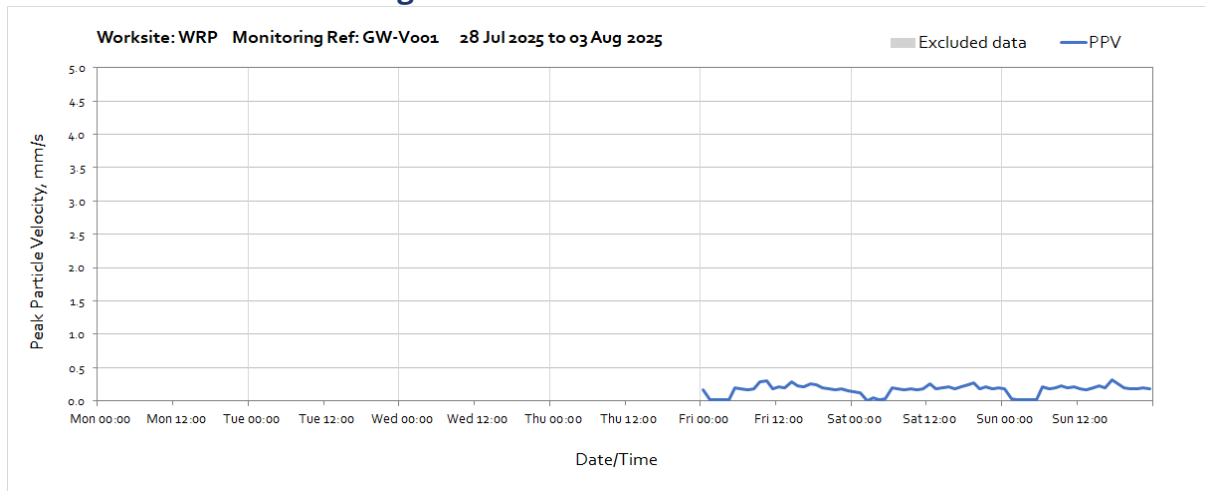


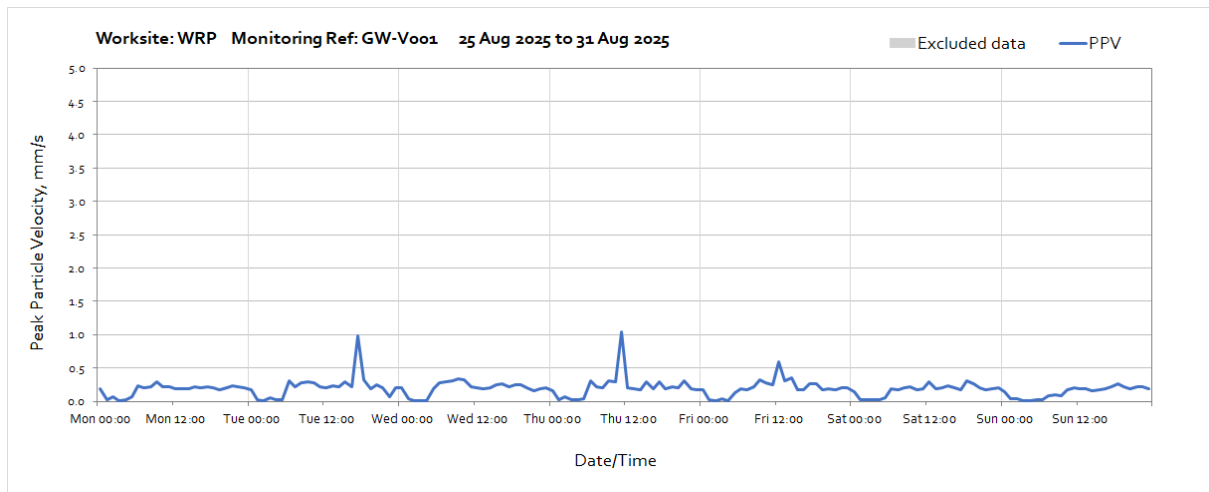
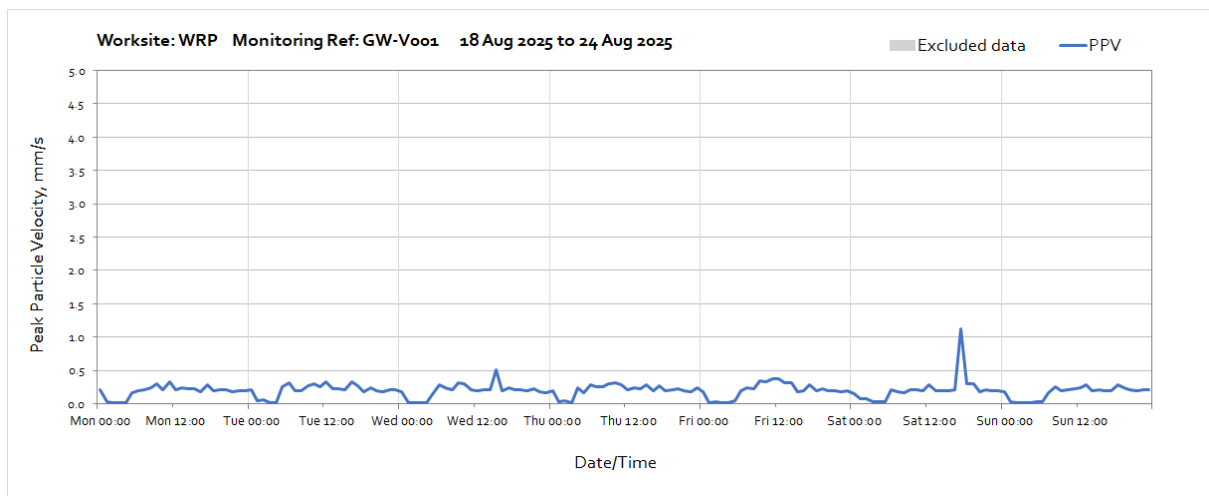
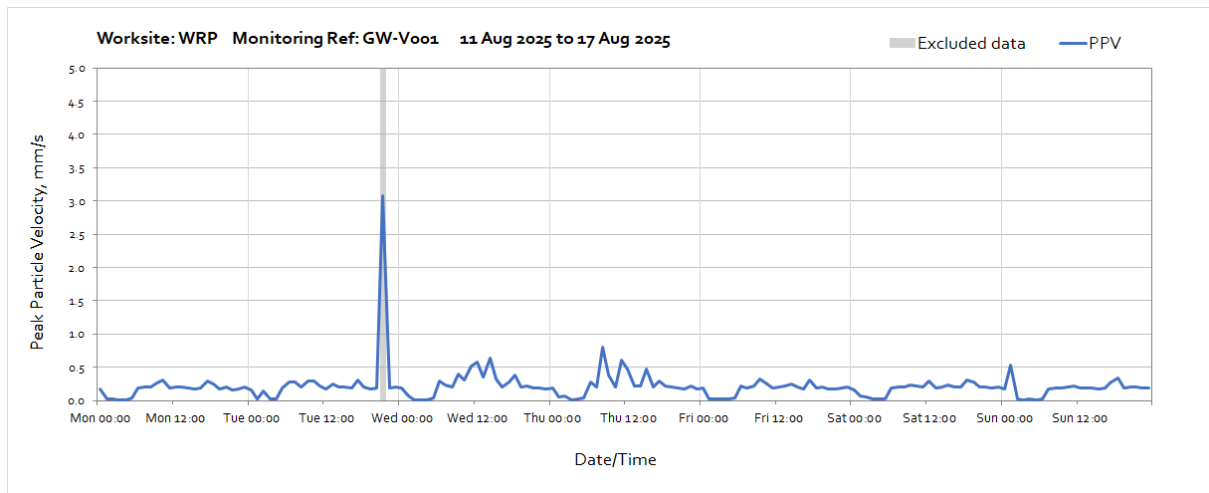
Note: Monitoring station was relocated to monitoring reference NSPA-N001a at 13:00 on Tuesday 5th August.

Vibration

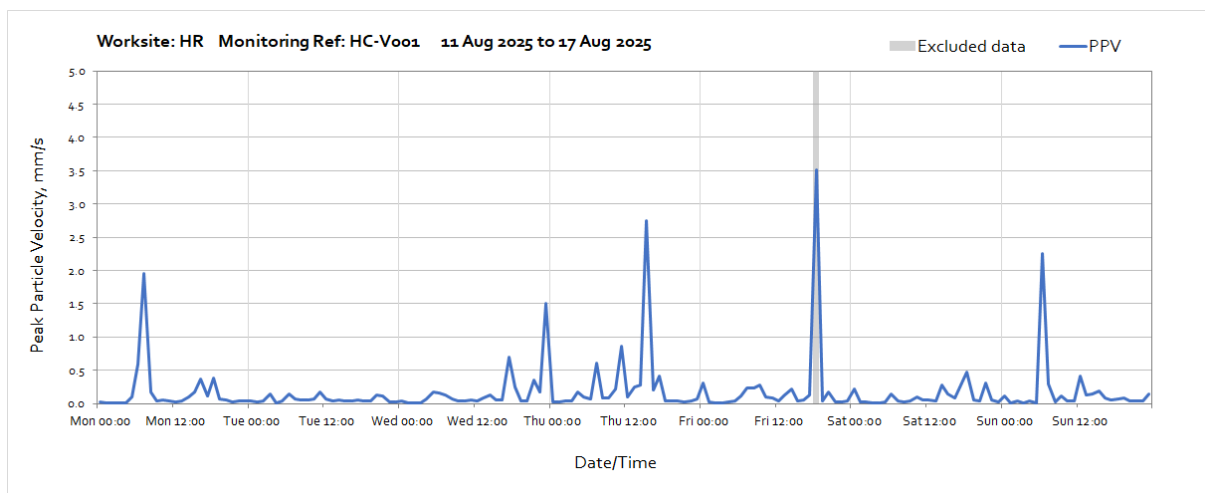
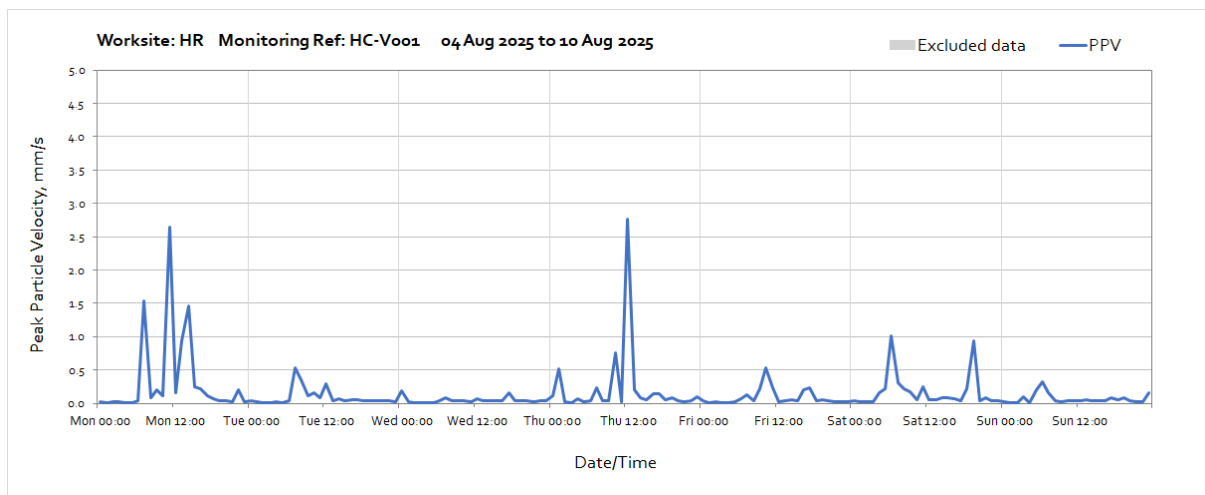
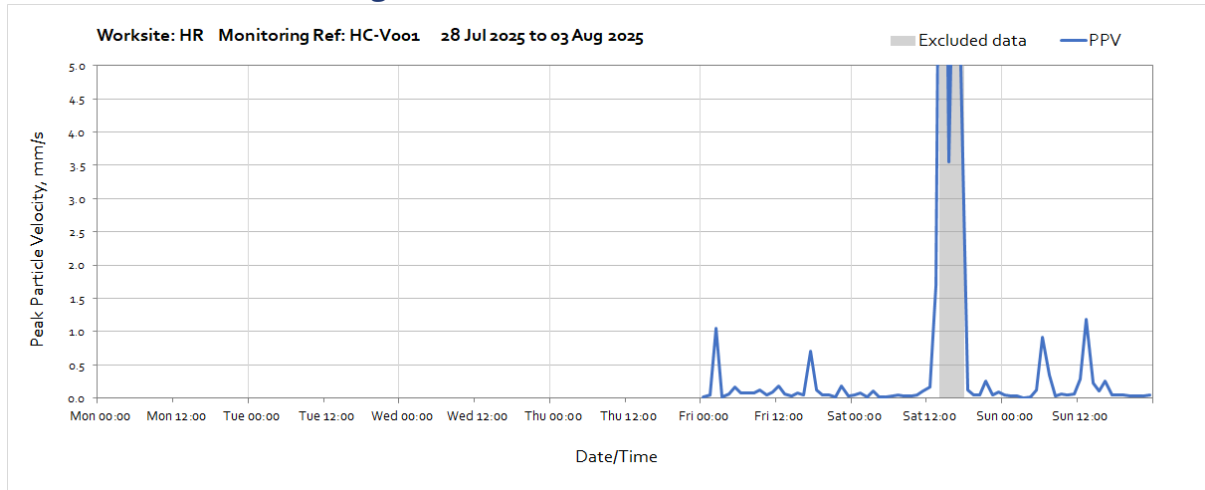
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the highest PPV of the three orthogonal axis x, y, and z. Periods where PPV values have been affected by local interference with the vibration monitor or only measured for part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

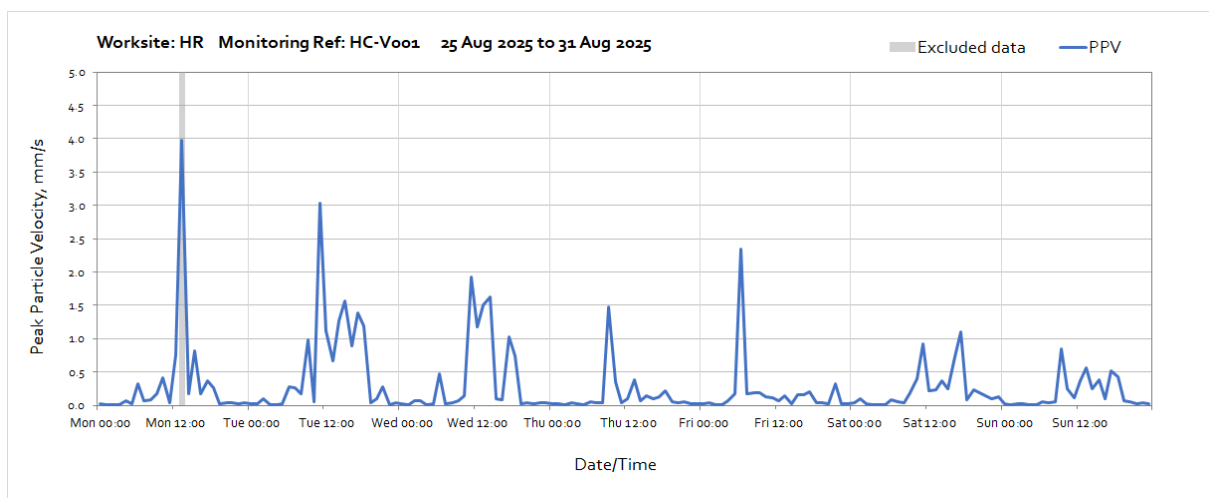
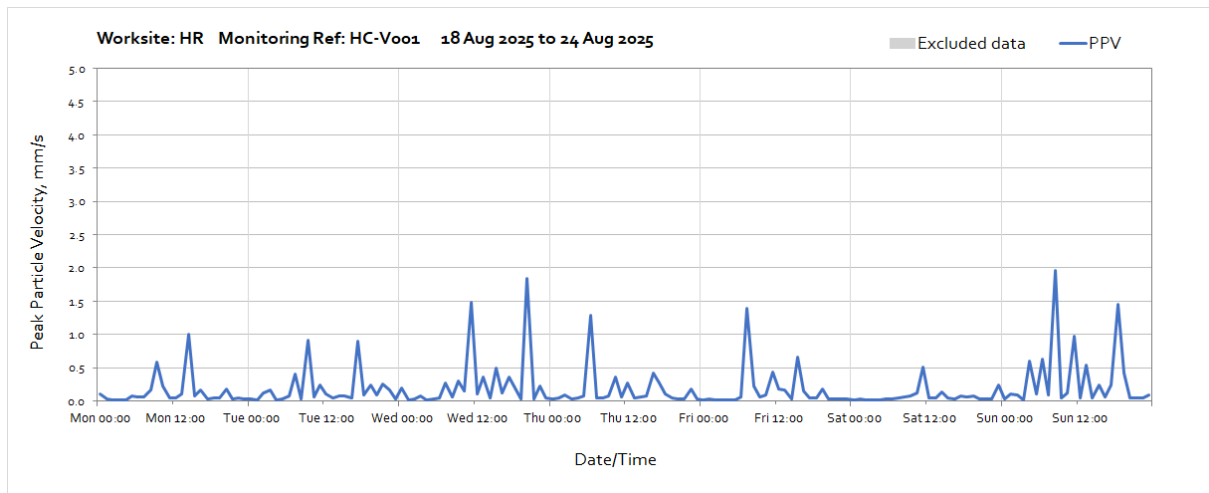




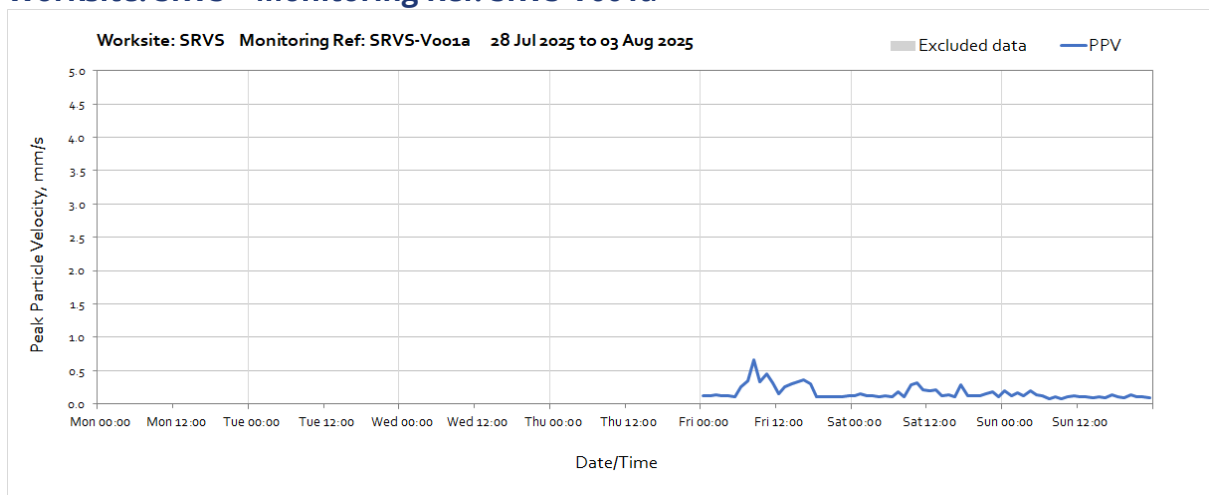
Worksite: BR – Monitoring Ref: HC-V001

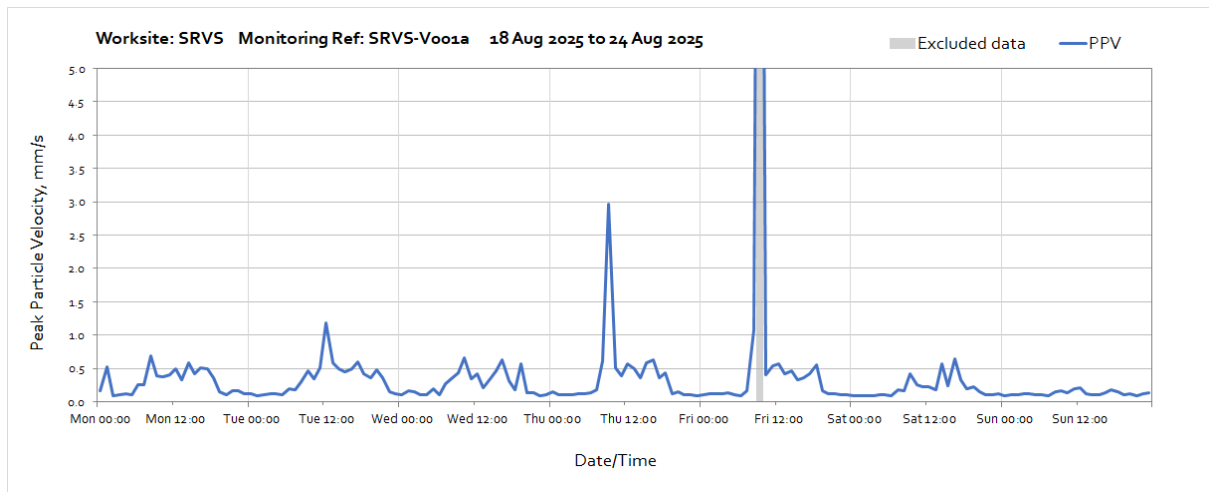
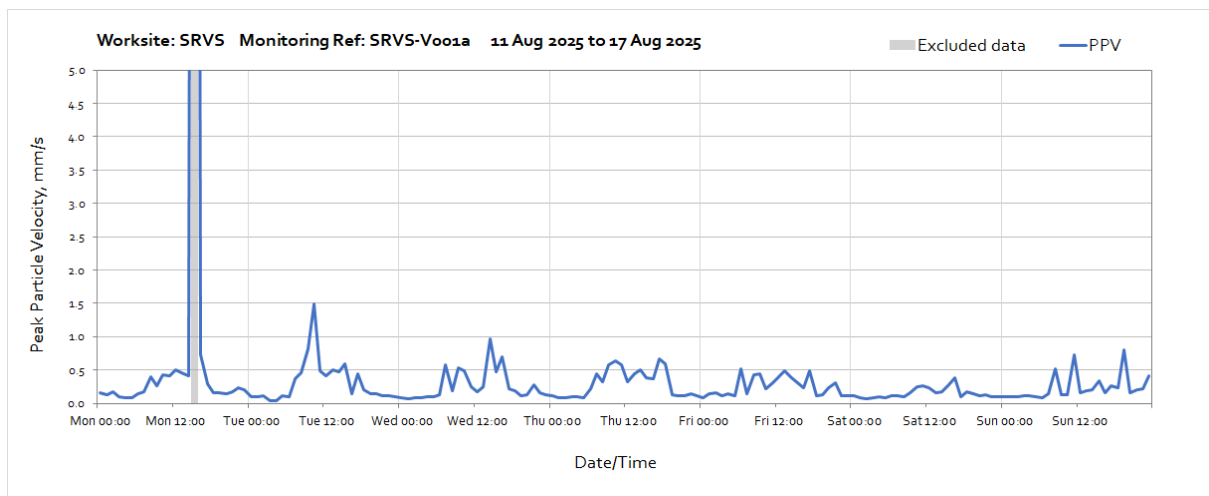
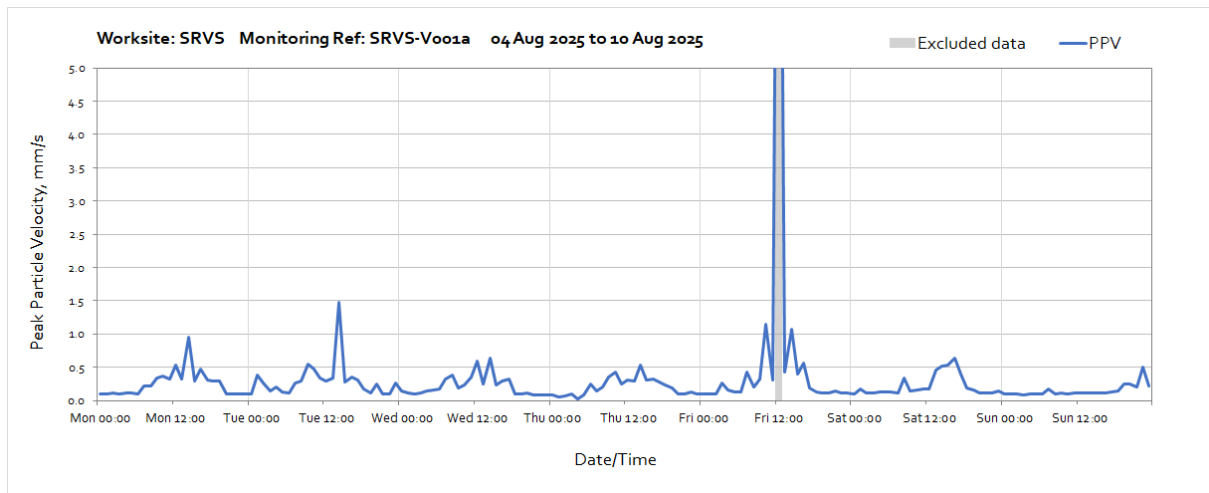


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Worksite: SRVS – Monitoring Ref: SRVS-V001a





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