HS2

April 2026

Construction noise and vibration Monthly Report – April 2026

Solihull Metropolitan Borough Council

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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 and vibration monitoring carried out within Solihull Metropolitan Borough Council during the month of April 2026.

Within this period monitoring was undertaken at the following worksites:

- Coleshill Heath Road worksite (ref.: CHR), where formwork installation, steel fixing, and site and haul road maintenance works were underway.
- Bickenhill Cutting worksite (ref.: BIC), where site and haul road maintenance works were underway.
- Birmingham Interchange Station worksite (ref.: BIS), where backfilling, and site and haul road maintenance works were underway.
- Diddington Lane Embankment (ref.: DLE), where steel fixing, shutter installation, platform construction and dismantling, concrete pours and site and haul road maintenance works were underway.
- Blythe Bypass Embankment Worksite (ref.: BBE), where stockpiling and material movement, formwork and reinforced concrete works, excavation, septic tank installation and removal, and backfilling activities were underway.
- A452 compound (ref.: A452), where haul road maintenance and construction and trial hole works were underway.
- Park Lane Worksite (ref.: PL) where overbridge construction, culvert dig and replace, blinding, haul road construction and maintenance, road realignment and piling works were underway.
- Balsall Common Viaduct Worksite (ref.: BCV) where beam installation and plant maintenance works were underway.
- Carol Green Rail Underbridge Worksite (ref.: CGRU), where steel fixing works were underway.
- Waste Lane Overbridge and Satellite Worksite (ref.: WLOS), where steel fixing, road realignment and utilities diversion activities 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-papersenvironment) were exceeded eleven (11) times during the reporting period.

There were no exceedances of trigger levels as defined in section 61 consents during the reporting period at any monitoring position.

No complaints were received 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
LAeq,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, LpAeq,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 LAeq,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 +2.5 to +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.

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 Solihull Metropolitan Borough Council (SMBC) area for the period 1-30 April 2026.

1.1.2 Active construction sites in the local authority area during this period include:

- Coleshill Heath Road worksite, ref.: CHR (see Plan 1 in Appendix A), where works activities included:
  - Formwork installation
  - Steel fixing
  - Site maintenance
  - Haul road maintenance

- Bickenhill Cutting worksite, ref.: BIC (see Plan 3 in Appendix A), where works activities included:
  - Site maintenance
  - Haul road maintenance

- Birmingham Interchange Station worksite, ref.: BIS (see Plan 3 in Appendix A), where works activities included:
  - Backfilling
  - Site maintenance
  - Haul road maintenance

- Diddington Lane Embankment worksite: ref.: DLE (see Plan 3 in Appendix A), where works activities included:
  - Steel fixings
  - Shutter installation
  - Platform construction
  - Platform dismantling
  - Concrete pours
  - Site maintenance
  - Haul road maintenance

- Blythe Bypass Embankment worksite, reference - BBE (see plan 4 in Appendix A), where works activities included:
    - Stockpiling, including material movements
    - Formwork, and reinforced concrete works, including concrete pours
    - Excavation
    - Septic tank installation and removal
    - Backfilling

- A452 worksite, reference - A452 (see plan 5 in Appendix A), where work activities included:
    - Haul road construction and maintenance
    - Trial holes

- Park Lane worksite, reference - PL (see plan 6 in Appendix A), where work activities included:
    - Overbridge construction
    - Culvert dig and replace
    - Blinding
    - Haul road construction and maintenance
    - Road realignment
    - Piling works, including trial holes

- Balsall Common Viaduct worksite, reference - BCV (see plan 7 in Appendix A), where work activities included:
    - Beam installation
    - Plant maintenance

- Carol Green Rail Underbridge worksite, reference - CGRU (see plan 7 in Appendix A), where work activities included:
    - Steel fixing

- Waste Lane Overbridge and Satellite worksite, reference WLOS (see plan 8 in Appendix A), where work activities included:
    - Steel fixing
    - Road realignment
    - Utilities diversion

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

1.2 Measurement Locations

1.2.1 18 noise and 11 vibration monitoring installations were active in April in the Solihull Metropolitan Borough Council area. Tables 2a and 2b summarise the position of noise and

vibration monitoring installations within the Solihull Metropolitan Borough Council area in April 2026.

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

Table 2a: Noise Monitoring Locations

Worksite Reference	Measurement Reference	Address
A452	A452-N1	Marsh House Farm, Brandocks Marsh, Solihull
BBE	BBE-N1	Patricks Farm Meriden Road, Hampton-In-Arden, Solihull
BCV	BCV-N1	Cherry Tree Cottage, Truggist Lane, Balsall Common, Solihull
BIC	BIC-N1	Park Farm Barns, Chester Rd, Marston Green, Coventry
BIS	BIS-N1	(East of) Middle Bickenhill Lane, Bickenhill and Marston Green
CGRU	CGRU-N1	The Stables, Truggist Lane, Balsall Common, Solihull
CHR	CHR-N1	Fillingham Court, Coleshill Heath Road, Solihull,
CHRU	CHRU-N1	276 Yorkminster Drive, Birmingham
DLE	DLE-N1	Hampton Hill Hounds, Nursery Cottage, Coventry Rd, Bickenhill
	DLE-N2	Diddington Ln, Hampton in Arden, Solihull
PL	PL-N1	(east of) Final Home, Park Lane, Balsall Common, Coventry
	PL-N2	(North of) The Laurel, Balsall Common, Coventry
	PL-N3	(east of) Holly Acre Lodge, Kenilworth Road, Solihull
	PL-N5	Lavender Hall Lane Barn, Berkswell, Coventry
	PL-N7	Hornbrook Cottage, A452 Kenilworth Road, Balsall Common
WL	WL-N2	Litte Beanitt Farm, Waste Lane, Balsall Common, Solihull
	WL-N3	Dragonflies, Waste Lane, Berkswell, Balsall Common, Solihull
WLOS	WLOS-N1	19 Hodgetts Lane, Burton Green, Warwickshire

Table 2b: Vibration Monitoring Locations

Worksite Reference	Measurement Reference	Address
A452	A452-V1	(north of) Barretts Lane, Balsall Common
BBE	BBE-V1	Patricks Farm, Meriden Road, Hampton-In-Arden, Solihull
BCV	BCV-V6	Cherry Tree Cottage, Truggist Lane, Balsall Common, Solihull
CHRU	CHRU-V1	276 Yorkminster Drive, Birmingham
DLE	DLE-V1	Hampton Hill Hounds, Nursery Cottage, Coventry Rd, Bickenhill, Hampton in Arden
PL	PL-V2	(east of) Final Home, Park Lane, Balsall Common, Coventry
	PL-V3	Lavender Hall Lane Barn, Berkswell, Coventry
	PL-V4	(east of) Holly Acre Lodge, Kenilworth Road, Solihull
WLOS	WLOS-V1	19 Hodgetts Lane, Burton Green, Warwickshire
WL	WL-V12	Old Hall, Waste Lane, Berkswell
	WL-V2	Little Beanitt Farm, Waste Lane, Balsall Common, Solihull

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 LAeq,T is presented for each of the relevant time periods averaged over the calendar month, along with the highest single period LAeq,T that was found to occur within the month.

Table 3: Summary of Measured dB LAeq Data over the Monitoring Period

Worksite Reference.	Measurement Reference	Site Address	Free-Field or Façade Measurement	Weekday Average LAeq,T (Highest Day LAeq,T)					Saturday Average LAeq,T (Highest Day LAeq,T)					Sunday / Public Holiday LAeq,T (Highest Day LAeq,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
BBE	BBE-N1	Patricks Farm Meriden Road, Hampton-In-Arden, Solihull	Free field	54.6 (57.1)	64.4 (68.9)	52.8 (59.1)	50.2 (53.7)	47.5 (55.5)	53.1 (56.0)	53.2 (59.1)	50.0 (51.6)	50.8 (54.1)	46.8 (52.3)	51.6 (62.7)	48.5 (59.6)
WLOS	WLOS-N1	19 Hodgetts Lane, Burton Green, Warwickshire	Facade	52.7 (66.9)	69.1 (73.7)	47.5 (71.2)	41.7 (47.4)	40.5 (52.6)	46.4 (46.9)	51.3 (55.8)	45.3 (52.1)	47.4 (57.4)	46.6 (58.8)	45.6 (54.1)	41.1 (52.3)
BCV	BCV-N1	Cherry Tree Cottage, Truggist Lane, Balsall Common, Solihull	Free field	58.5 (64.4)	65.4 (70.0)	57.0 (60.7)	55.3 (62.1)	50.9 (62.3)	54.4 (58.0)	58.6 (62.8)	57.6 (58.6)	57.1 (60.8)	52.2 (60.4)	56.2 (64.6)	49.6 (57.1)
CGRU	CGRU-N1	The Stables, Truggist Lane, Balsall Common, Solihull	Free field	54.5 (64.2)	58.8 (65.7)	49.9 (55.6)	48.8 (54.8)	47.5 (57.3)	53.1 (56.7)	53.2 (57.3)	51.0 (52.9)	50.7 (54.4)	46.9 (53.5)	49.9 (60.5)	46.3 (53.4)
WL	WL-N2	Litte Beanitt Farm, Waste Lane, Balsall Common, Solihull	Free field	48.8 (52.0)	51.7 (54.1)	47.1 (51.7)	44.8 (51.7)	42.4 (52.7)	46.0 (48.4)	49.8 (52.9)	46.5 (50.3)	47.2 (53.2)	45.0 (53.1)	46.7 (52.9)	42.6 (52.4)
	WL-N3	Dragonflies, Waste Lane, Berkswell, Balsall Common, Solihull	Free field	59.9 (61.4)	61.0 (63.3)	58.3 (61.7)	55.5 (59.0)	50.8 (57.9)	55.6 (59.5)	62.2 (67.3)	61.8 (69.5)	58.3 (69.7)	49.4 (53.4)	55.6 (60.5)	49.3 (58.1)
A452	A452-N1	Litte Beanitt Farm, Waste Lane, Balsall Common, Solihull	Free field	54.7 (58.3)	56.5 (59.6)	52.5 (57.4)	49.6 (55.7)	46.9 (56.3)	53.1 (54.0)	52.1 (54.7)	48.4 (50.6)	50.4 (55.1)	46.1 (52.2)	51.0 (55.5)	48.2 (55.3)
BIS	BIS-N1	Marsh House Farm, Brandocks Marsh, Solihull	Free field	56.6 (60.4)	56.5 (59.0)	54.8 (59.2)	51.3 (55.6)	50.6 (57.9)	56.8 (58.3)	55.8 (57.5)	54.1 (55.8)	52.7 (56.1)	50.4 (55.8)	52.5 (59.0)	51.7 (59.5)
CHRU	CHRU-N1	(East of) Middle Bickenhill Lane, Bickenhill and Marston Green	Free field	61.9 (64.9)	60.8 (65.2)	60.8 (64.8)	59.2 (63.7)	57.8 (64.3)	* (*)	57.5 (58.5)	55.6 (56.2)	58.9 (62.0)	56.1 (61.0)	58.4 (63.1)	57.0 (63.1)

DLE	DLE-N1	Hampton Hill Hounds, Nursery Cottage, Coventry Rd, Bickenhill, Hampton in Arden, Solihull	Free field	54.7 (56.9)	54.3 (63.1)	52.4 (66.6)	50.1 (57.9)	50.1 (69.3)	53.1 (54.1)	50.8 (52.6)	51.7 (58.3)	49.9 (54.2)	49.9 (55.8)	51.9 (63.5)	50.3 (58.3)
	DLE-N2	44 Diddington Ln, Hampton in Arden, Solihull	Free field	53.1 (56.1)	54.2 (60.9)	49.4 (53.9)	50.3 (54.6)	49.5 (55.4)	51.8 (52.9)	52.0 (55.2)	47.5 (48.4)	49.4 (53.1)	49.2 (55.1)	50.2 (62.0)	50.3 (55.9)
CHR	CHR-N1	Fillingham Court, Coleshill Heath Road, Solihull, Birmingham,	Free field	66.1 (79.9)	64.6 (66.1)	64.2 (65.5)	62.2 (64.4)	60.4 (66.8)	61.6 (62.6)	62.6 (62.9)	63.7 (64.7)	62.7 (64.1)	58.5 (62.2)	62.4 (66.4)	59.9 (66.8)
BIC	BIC-N1	Park Farm Barns, Chester Rd, Marston Green, Coventry	Free field	57.6 (59.3)	55.7 (57.8)	56.3 (57.7)	53.4 (54.9)	52.7 (58.0)	* (*)	54.8 (55.5)	52.9 (52.9)	54.1 (55.1)	51.6 (54.4)	53.1 (57.0)	52.7 (60.2)
PL	PL-N1	(east of) Final Home, Park Lane, Balsall Common, Coventry	Free field	55.4 (57.2)	60.9 (62.7)	54.0 (57.1)	49.2 (53.0)	46.2 (55.0)	51.2 (53.6)	56.0 (64.1)	48.9 (49.0)	49.0 (51.9)	46.4 (52.9)	49.8 (54.3)	46.0 (53.8)
	PL-N2	(North of) The Laurel, Balsall Common, Coventry	Free field	51.7 (54.3)	59.5 (61.9)	53.2 (58.3)	46.5 (53.8)	42.8 (53.8)	46.6 (47.9)	49.5 (52.3)	46.1 (46.9)	46.2 (49.7)	42.4 (47.0)	46.6 (52.3)	43.0 (50.8)
	PL-N3	(east of) Holly Acre Lodge, Kenilworth Road, Solihull, West Midlands	Free field	58.6 (61.9)	59.0 (61.5)	56.8 (60.9)	52.3 (56.2)	48.6 (58.3)	54.0 (54.6)	56.0 (57.2)	52.5 (53.1)	53.3 (58.3)	47.2 (53.7)	53.6 (58.5)	49.4 (59.8)
	PL-N5	Lavender Hall Lane Barn, Berkswell, Coventry	Free field	55.9 (63.8)	56.5 (63.4)	51.4 (56.0)	48.3 (55.4)	51.7 (80.0)	55.9 (60.7)	59.9 (72.0)	53.0 (56.2)	48.3 (51.1)	52.6 (61.3)	51.3 (59.4)	51.8 (61.9)
	PL-N7	Mercote Lodge and Hornbrook Cottage, A452 Kenilworth Road, Balsall Common	Free field	66.1 (67.7)	65.7 (67.2)	64.7 (66.2)	61.0 (66.1)	58.2 (66.0)	60.9 (61.6)	62.9 (63.7)	62.3 (62.9)	62.4 (64.9)	56.5 (60.1)	62.0 (65.2)	57.8 (65.7)

* Note: no valid data recorded during the monitoring period due to a fault with the device.

2.1.2 Table 4: Summary of Measured PPV Data over the Monitoring Period 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
A452	A452-V1	(north of) Barretts Lane, Balsall Common	1.47 (X-axis)
BBE	BBE-V1	Patricks Farm, Meriden Road, Hampton-In-Arden, Solihull	12.25 (Y-axis)
BCV	BCV-V6	Cherry Tree Cottage, Truggist Lane, Balsall Common, Solihull	2.06 (X-axis)

CHRU	CHRU-V1	276 Yorkminster Drive, Birmingham	1.47 (X-axis)
DLE	DLE-V1	Hampton Hill Hounds, Nursery Cottage, Coventry Rd, Bickenhill, Hampton in Arden, Solihull	1.54 (X-axis)
PL	PL-V2	(east of) Final Home, Park Lane, Balsall Common, Coventry	1.56 (X-axis)
	PL-V3	Lavender Hall Lane Barn, Berkswell, Coventry	0.96 (X-axis)
	PL-V4	(east of) Holly Acre Lodge, Kenilworth Road, Solihull, West Midlands	1.18 (Y-axis)
WL	WL-V12	Little Beanitt Farm, Waste Lane, Balsall Common, Solihull	0.31 (Z-axis)
	WL-V2	Old Hall, Waste Lane, Berkswell, Metropolitan Borough of Solihull, West Midlands	2.12 (X-axis)
WLOS	WLOS-V1	19 Hodgetts Lane, Burton Green, Warwickshire	9.76 (Y-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 LAeq values and, where relevant, the LAeq,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 LOAEL and SOAELs for construction noise.

2.2.4 Where construction noise levels exceed the SOAEL, relevant periods will be identified, and summary statistics provided in order to evaluate ongoing qualification for noise insulation and temporary rehousing.

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
A452	A452-N1	Marsh House Farm	Weekday	All periods	No exceedances	No exceedances
BBE	BBE-N1	Patrick Farm House	Weekday	0800 - 1800	17	No exceedances
BCV	BCV-N1	Cherry Tree Cottage	Weekday	0700 - 0800	6	No exceedances
				0800 - 1800	15	No exceedances
BIC	BIC-N1	Park Farm Barns	Weekday	All periods	No exceedances	No exceedances
BIS	BIS-N1*	Hollywell Brook, Middle Bickenhill Lane	Weekday	All periods	No exceedances	No exceedances
CGRU	CGRU-N1	(south east of) Annora House, Station Road, Berkswell, Balsall Common, Solihull	Weekday	0700 - 0800	3	No exceedances
				0800 - 1800	1	No exceedances
			Saturday	1400 - 2200	2	No exceedances
			Sunday	0700 - 2200	5	No exceedances
			Night	2200 - 0700	26	9
CHR	CHR-N1	Fillingham Court, Coleshill Heath Road, Solihull, Birmingham,	Weekday	All periods	No exceedances	No exceedances
CHRU	CHRU-N1*	276 Yorkminster Drive, Birmingham	Weekday	0700 - 0800	4	No exceedances
				1800 - 1900	4	No exceedances
				1900 - 2200	6	No exceedances
				1800 - 1900	4	No exceedances
				1900 - 2200	6	No exceedances
DLE	DLE-N1	Hampton Hill Farmhouse, Coventry Road	Weekday	All periods	No exceedances	No exceedances
	DLE-N2	Diddington Ln, Hampton in Arden	Weekday	All periods	No exceedances	No exceedances
PL	PL-N1	east of) Final Home, Park Lane, Balsall Common, Coventry	Saturday	0800 - 1300	1	No exceedances

	PL-N2*	(North of) The Laurel, Balsall Common, Coventry	Weekday	All periods	No exceedances	No exceedances
	PL-N3*	(east of) Holly Acre Lodge, Kenilworth Road, Solihull, West Midlands	Weekday	All periods	No exceedances	No exceedances
	PL-N5*	Lavender Hall Lane Barn, Berkswell, Coventry	Weekday	0700 - 0800	7	No exceedances
				0800 - 1800	1	No exceedances
			Saturday	0700 - 0800	1	No exceedances
				0800 - 1300	1	No exceedances
	PL-N7	Mercote Lodge and Hornbrook Cottage, A452 Kenilworth Road, Balsall Common	Weekday	0700 - 0800	20	No exceedances
				0800 - 1800	19	No exceedances
			Saturday	0700 - 0800	1	No exceedances
				1300 - 1400	2	No exceedances
				1400 - 2200	3	No exceedances
			Sunday	0700 - 2200	6	2
WL	WL-N2	Waste Lane (East)	Weekday	All periods	No exceedances	No exceedances
	WL-N3	Waste Lane (East)	Weekday	0800 - 1800	1	No exceedances
WLOS	WLOS-N1	19 Hodgetts Lane	Weekday	0800 - 1800	12	No exceedances

*A distance correction has been applied when calculating exceedances of the LOAEL and SOAEL.

2.2.6 There were exceedances of the LOAEL, during April 2026, due to HS2 construction works.

2.2.7 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
CGRU	CGRU-N1	(south east of) Annora House, Station Road, Berkswell, Balsall Common, Solihull	9
PL	PL-N7	Mercote Lodge and Hornbrook Cottage, A452 Kenilworth Road Balsall Common	2

2.3 Exceedances of Trigger Level

2.3.1 Table 7 provides a summary of exceedances of the S61 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
-	-	-	-	-	-

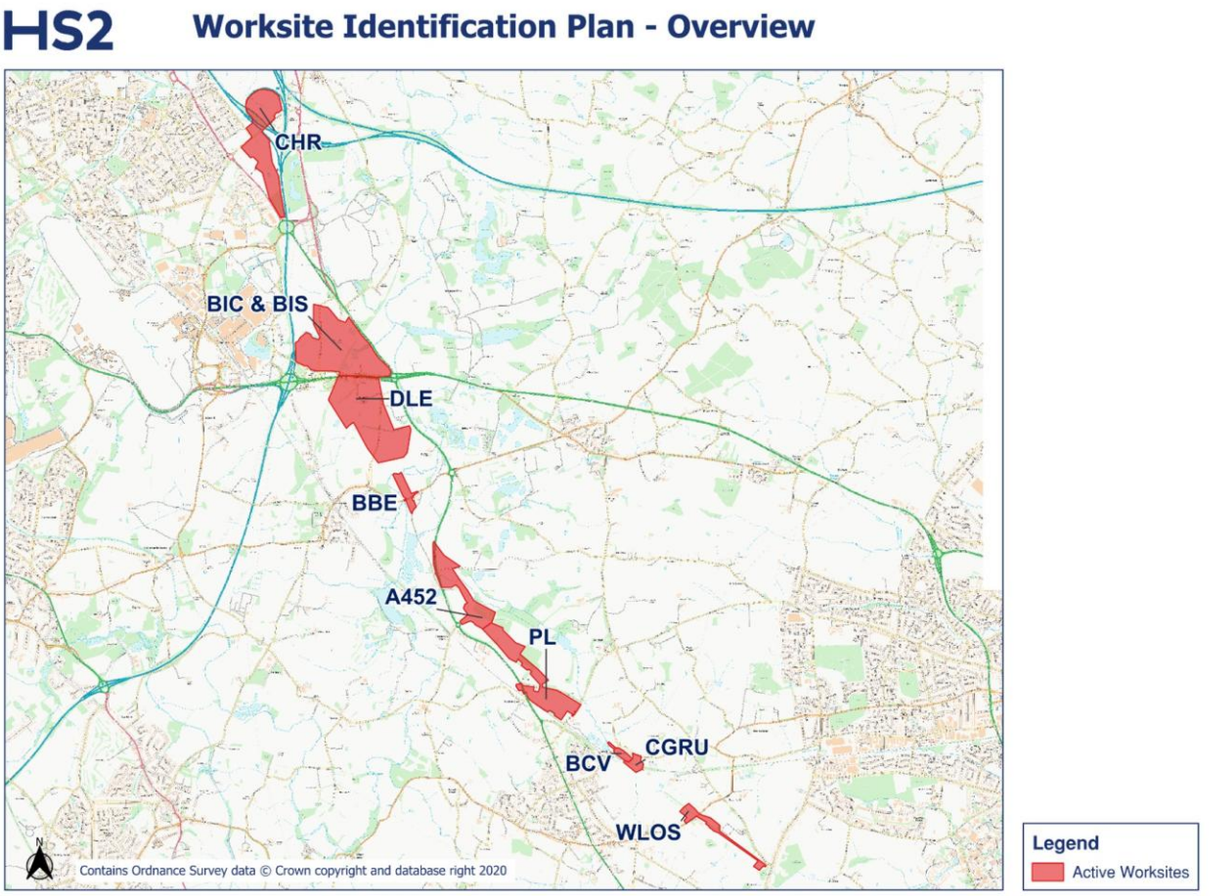
2.4 Complaints

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

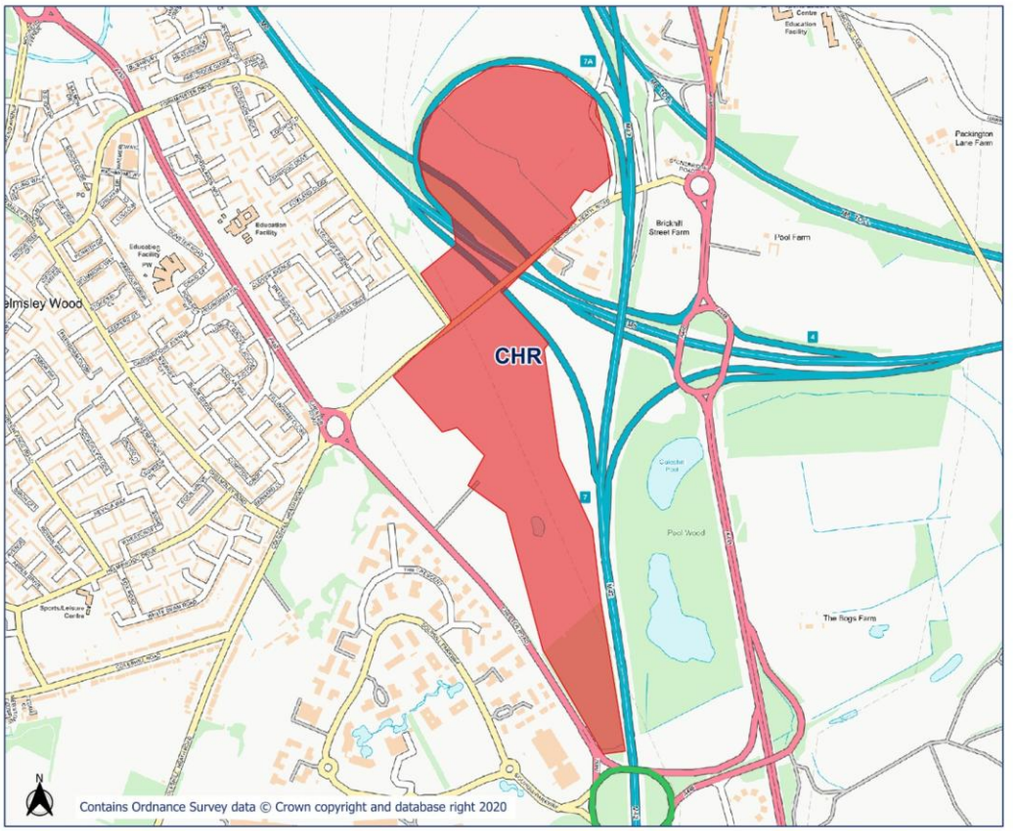
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
-	-	-	-	-

Appendix A Site Locations



HS2

Worksite Identification Plan - 1

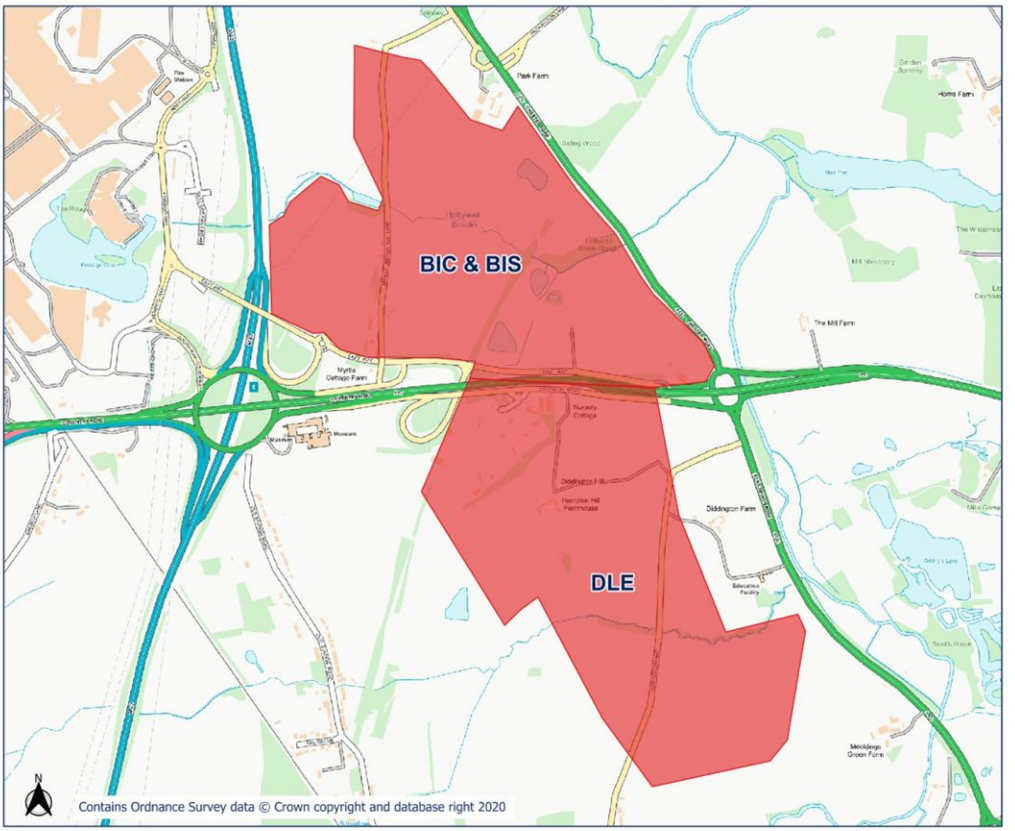


Legend

Active Worksites

HS2

Worksite Identification Plan - 2

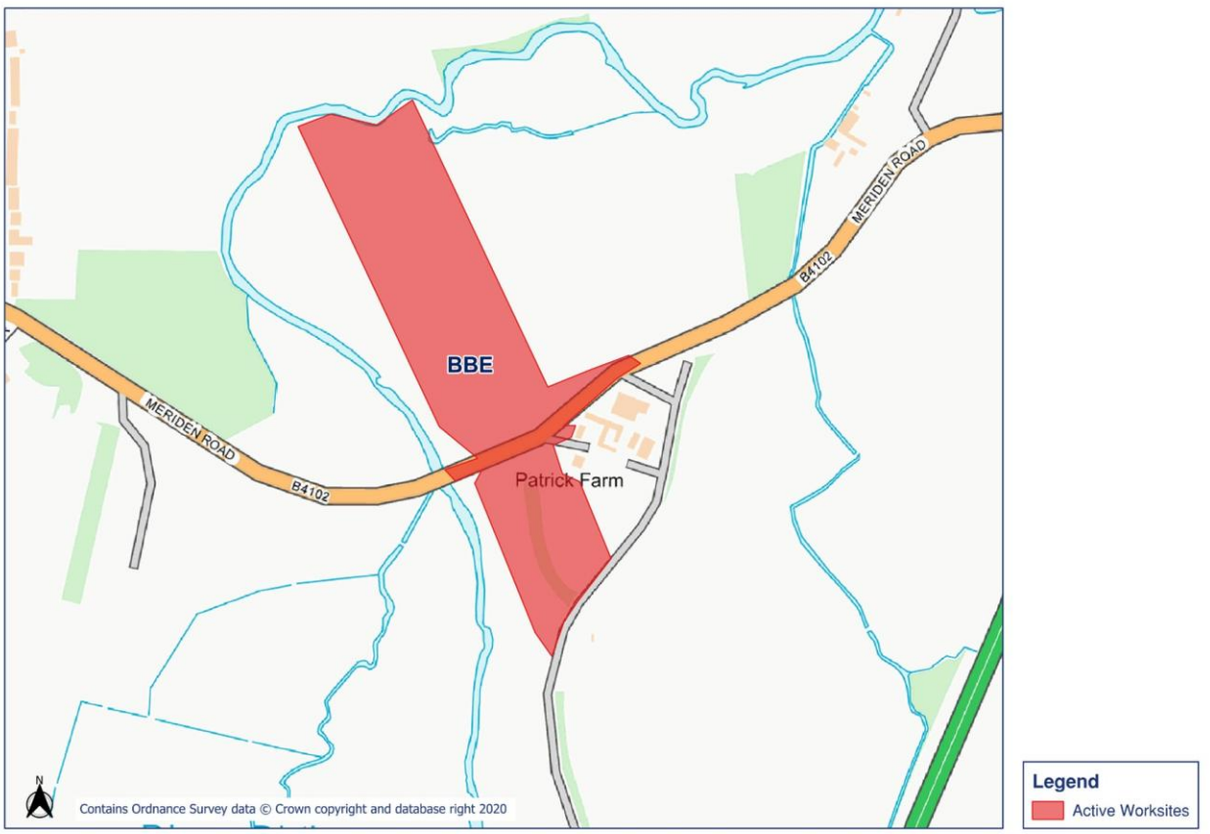


Legend

Active Worksites

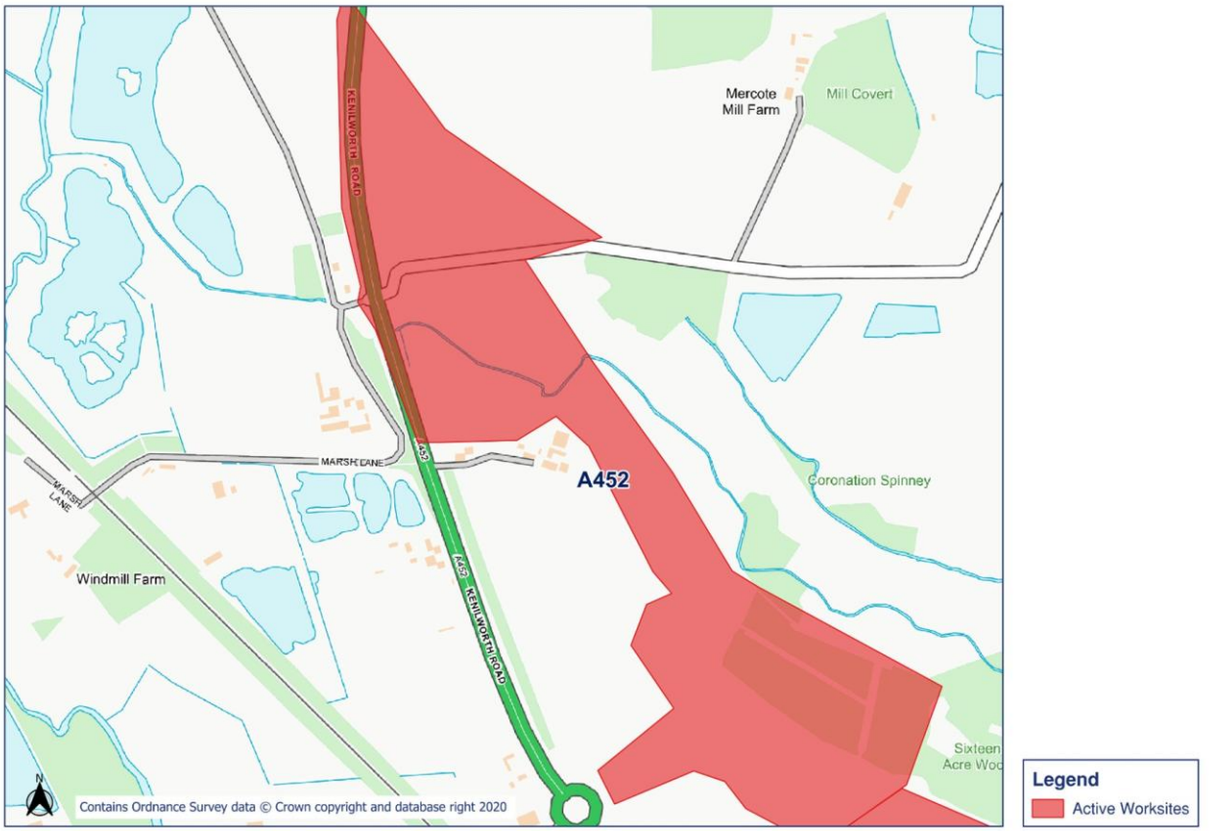
HS2

Worksite Identification Plan - 3

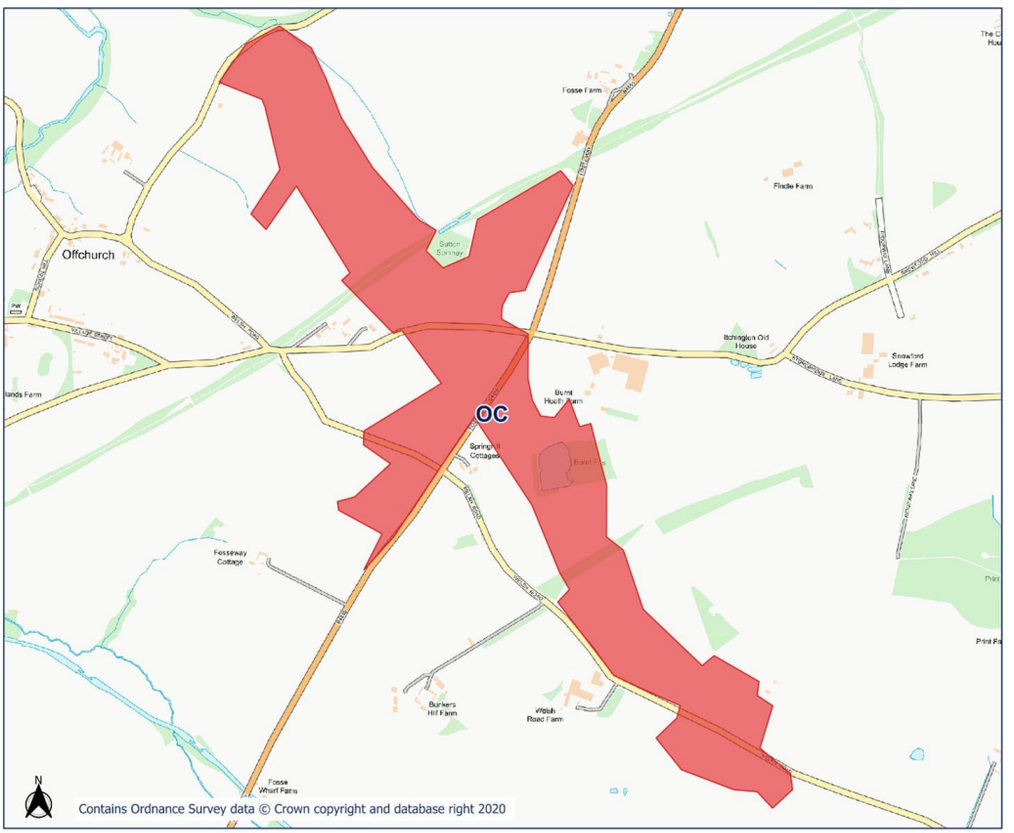


HS2

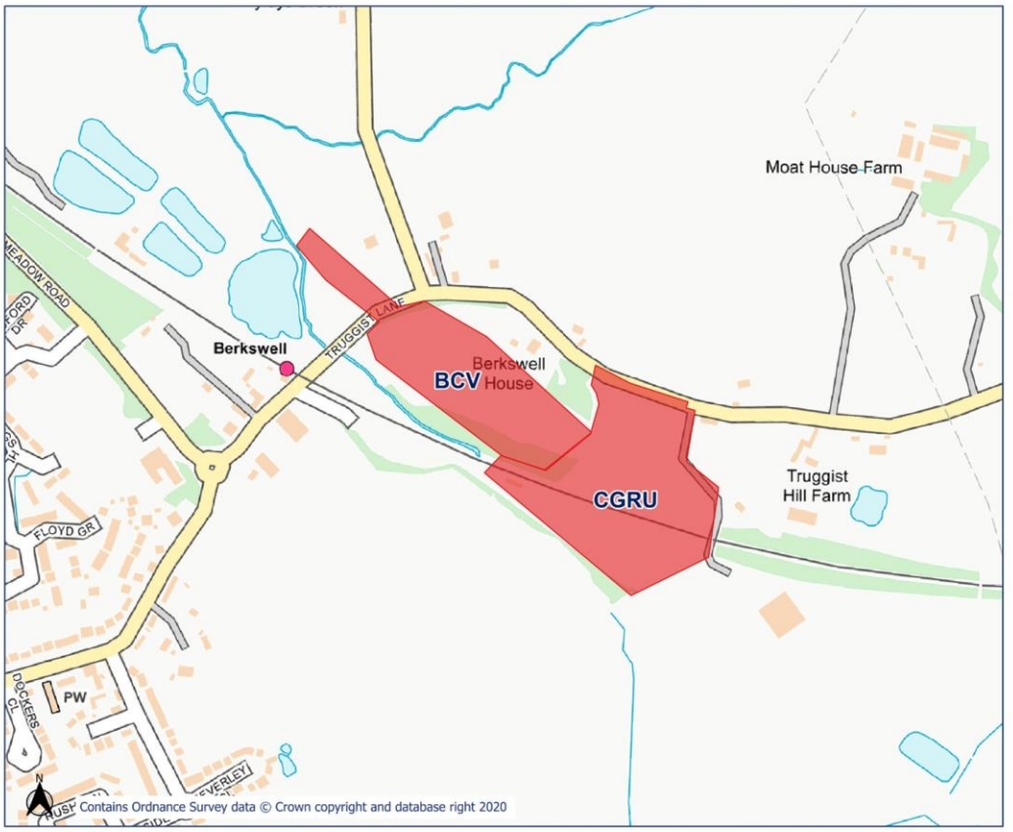
Worksite Identification Plan - 4



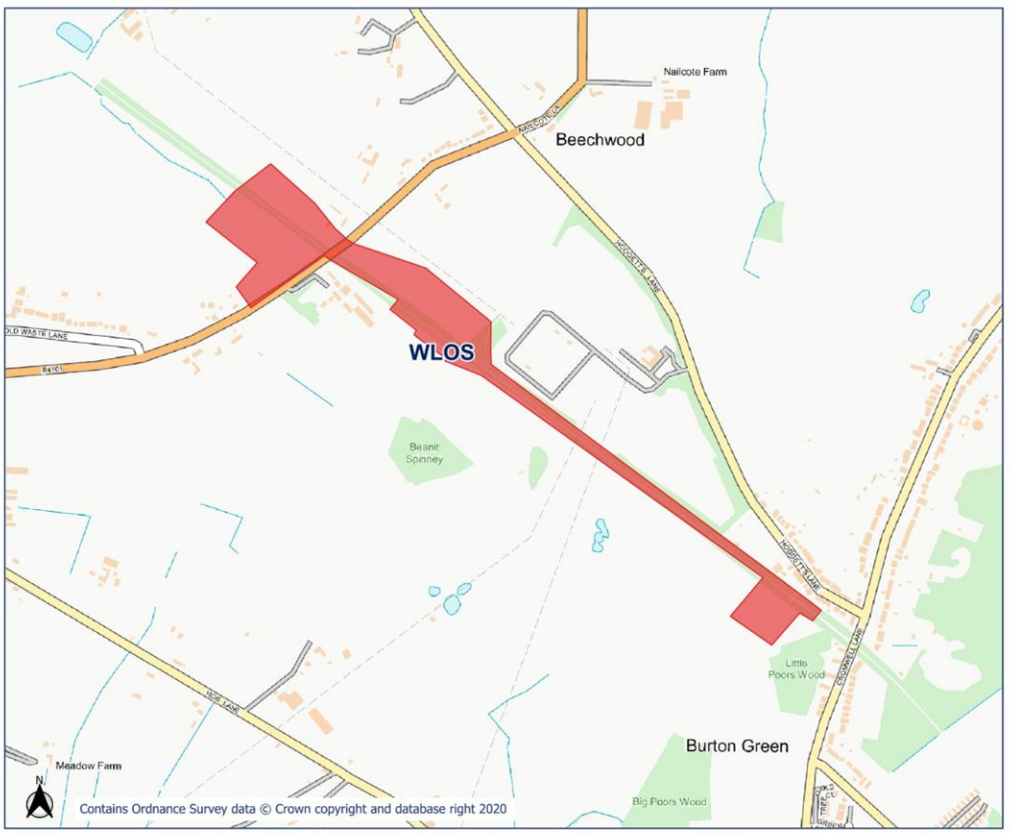
Worksite Identification Plan - 5



HS2 Worksite Identification Plan - 6



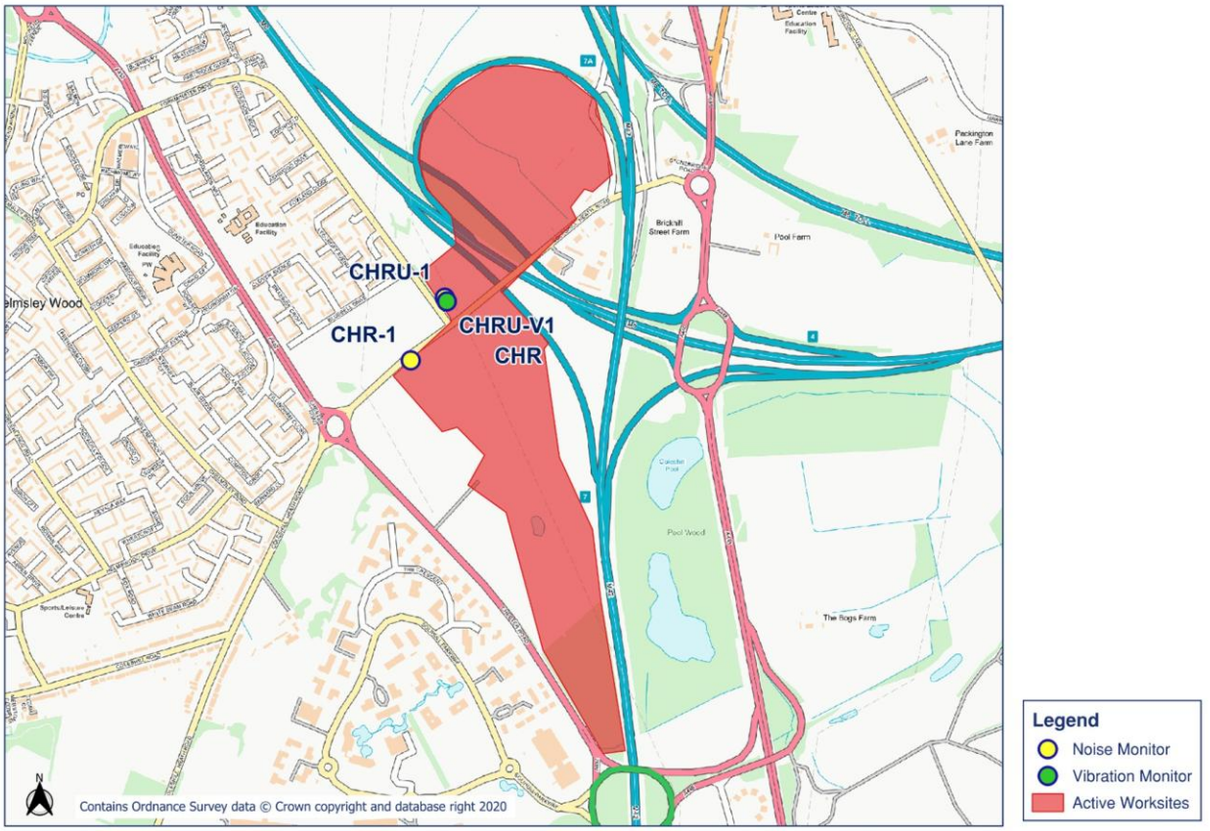
Worksite Identification Plan - 7



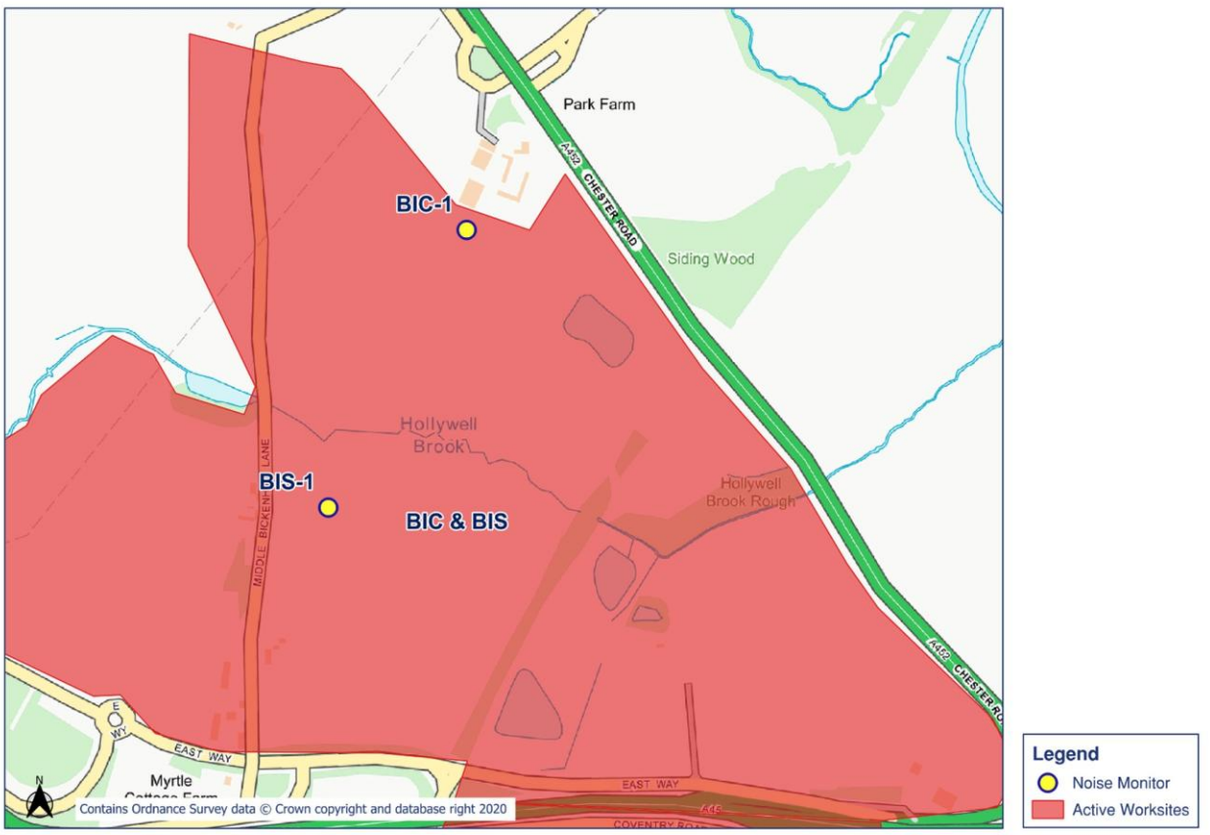
Legend
Active Worksites

Appendix B Monitoring Locations

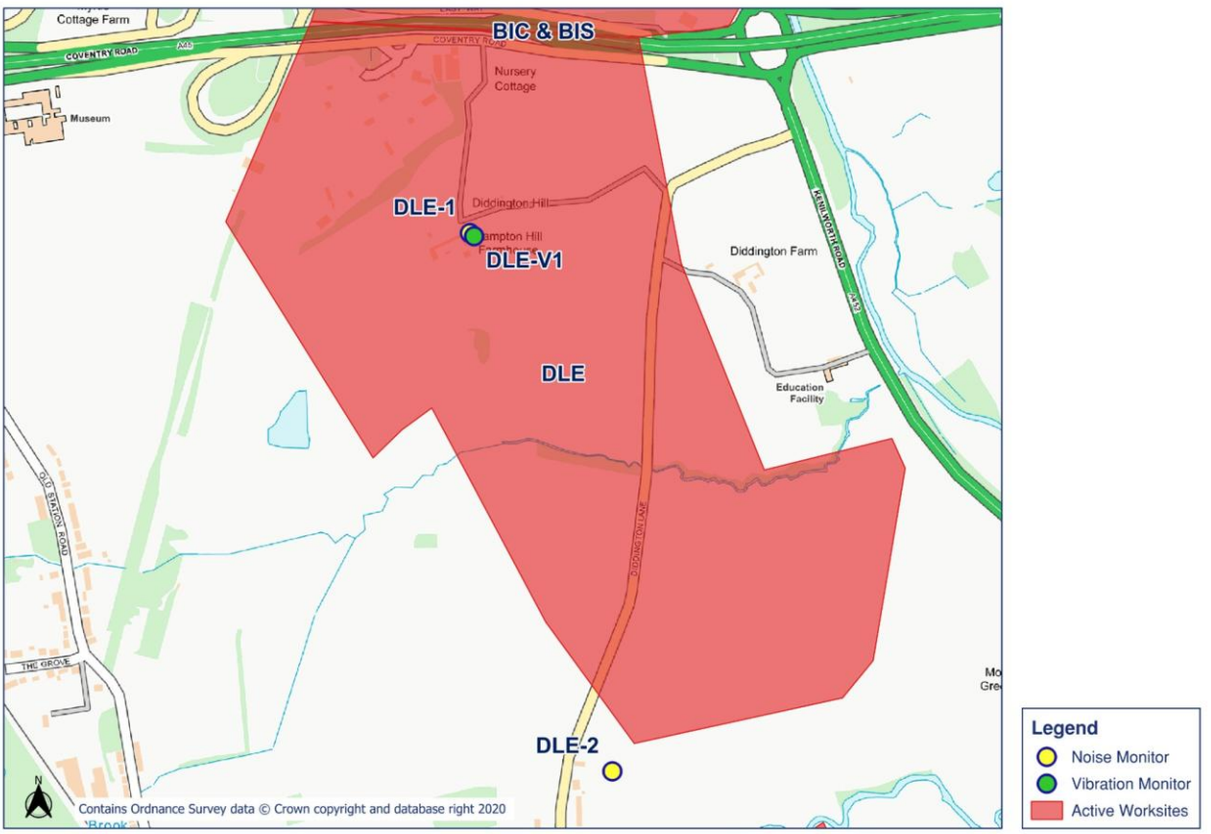
HS2 **Noise and Vibration Monitoring Plan - 1**



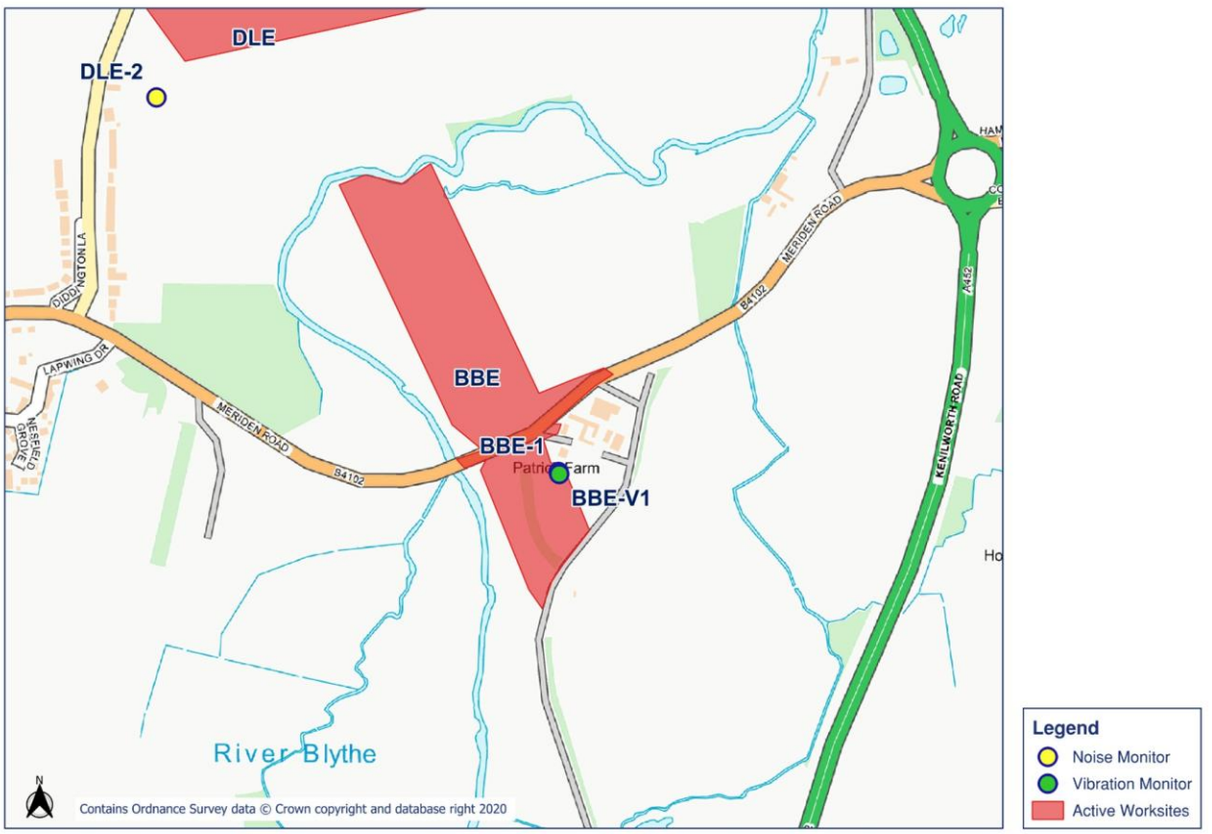
HS2 Noise and Vibration Monitoring Plan - 2



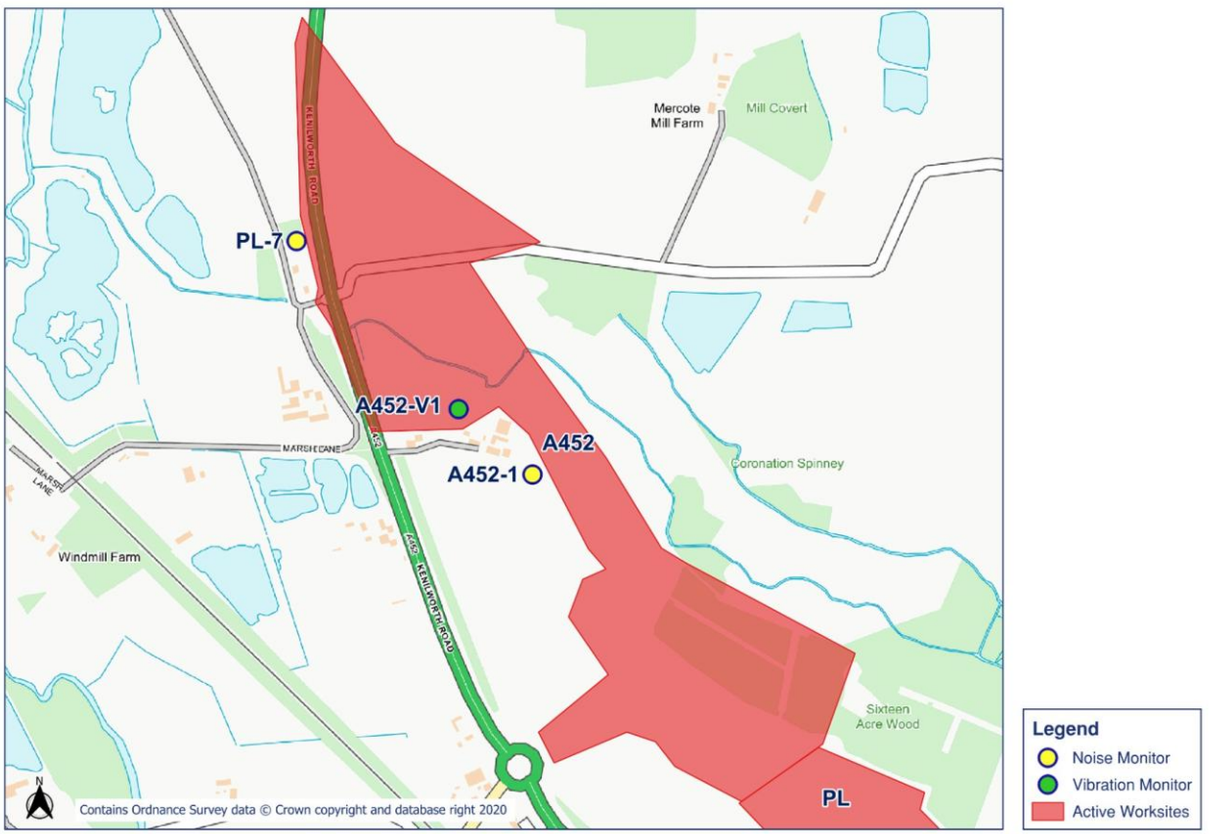
HS2 Noise and Vibration Monitoring Plan - 3



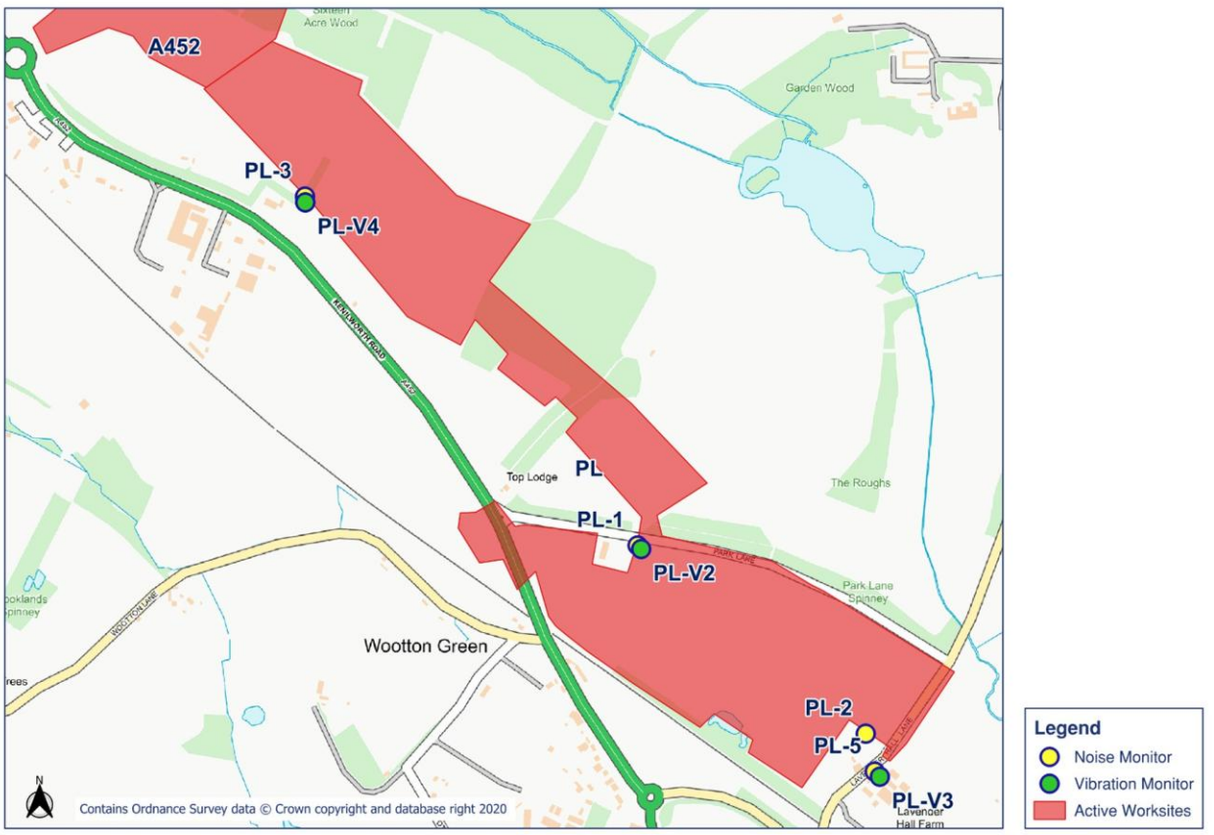
HS2 Noise and Vibration Monitoring Plan - 4



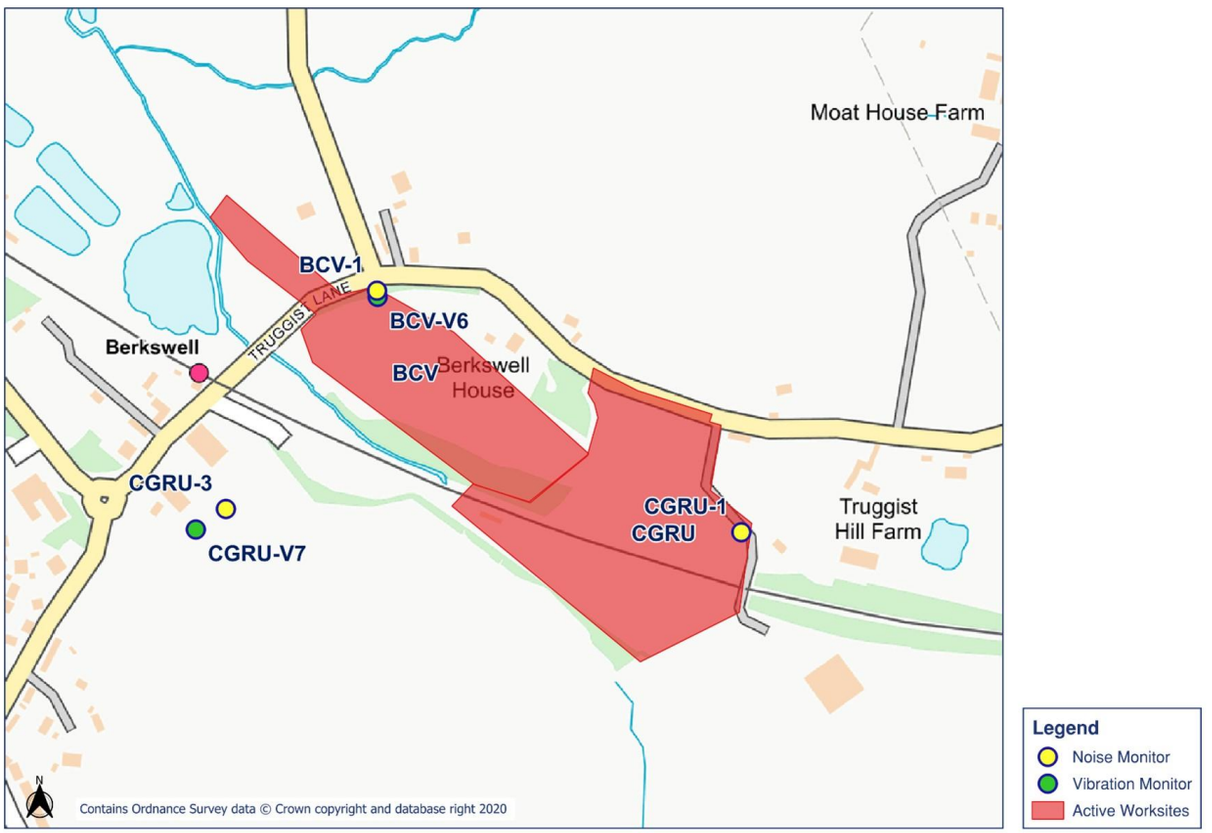
HS2 Noise and Vibration Monitoring Plan - 5



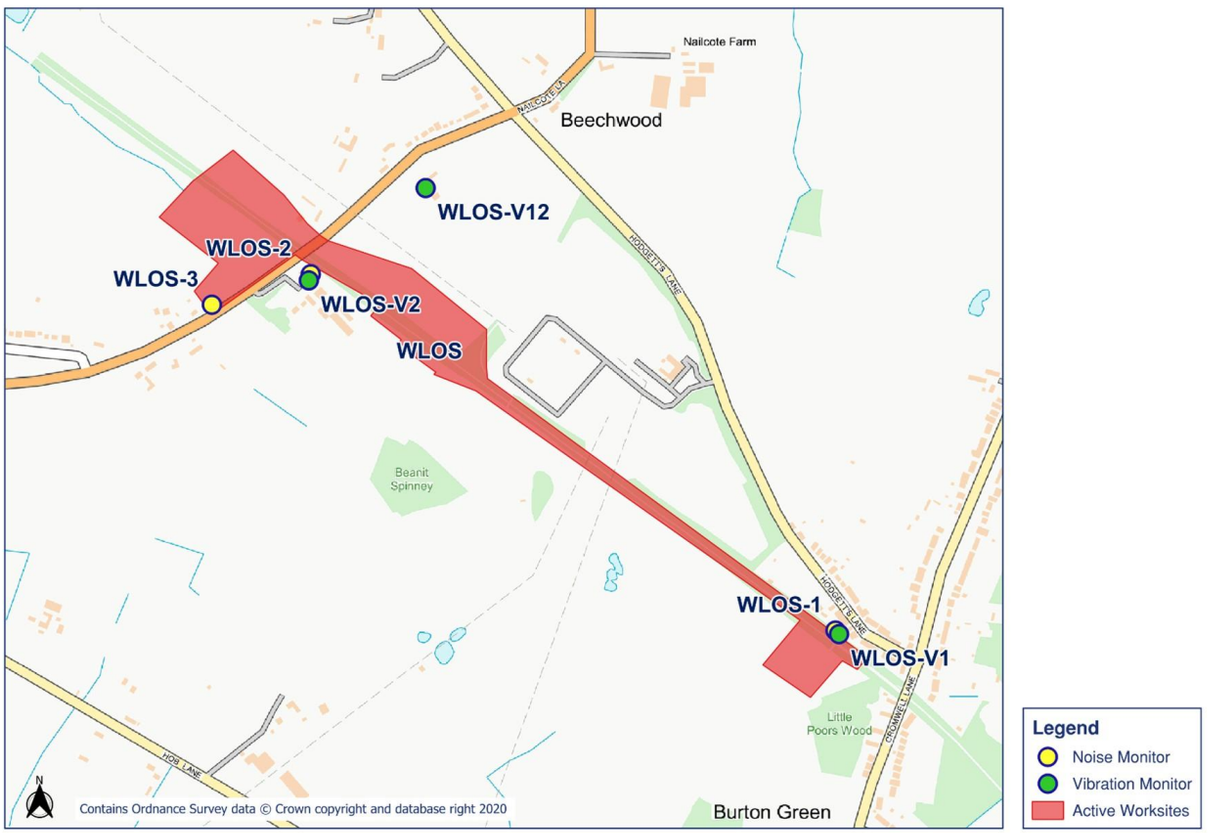
HS2 Noise and Vibration Monitoring Plan - 6



Noise and Vibration Monitoring Plan - 7



Noise and Vibration Monitoring Plan - 8

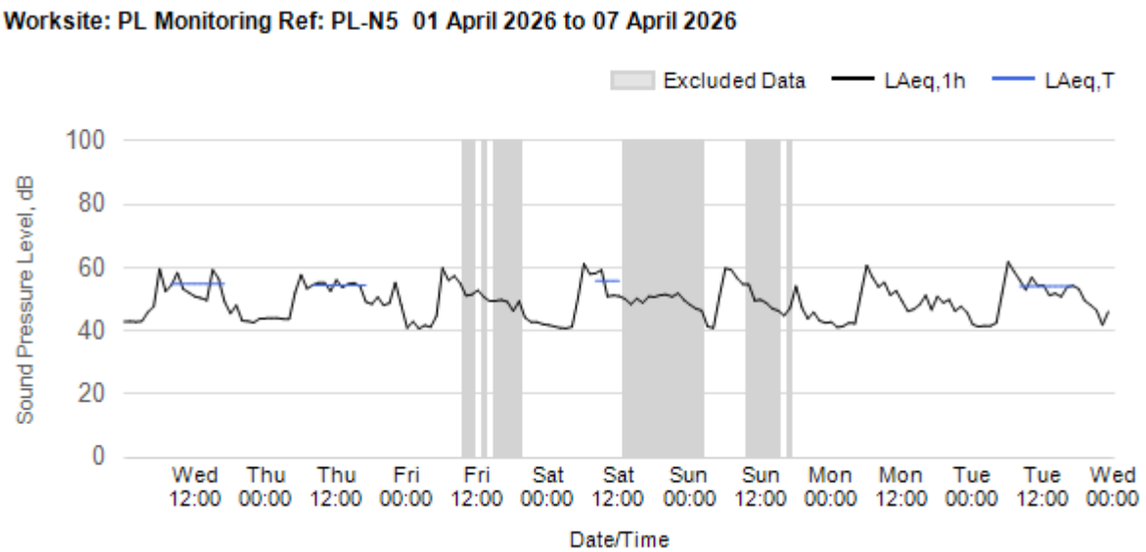


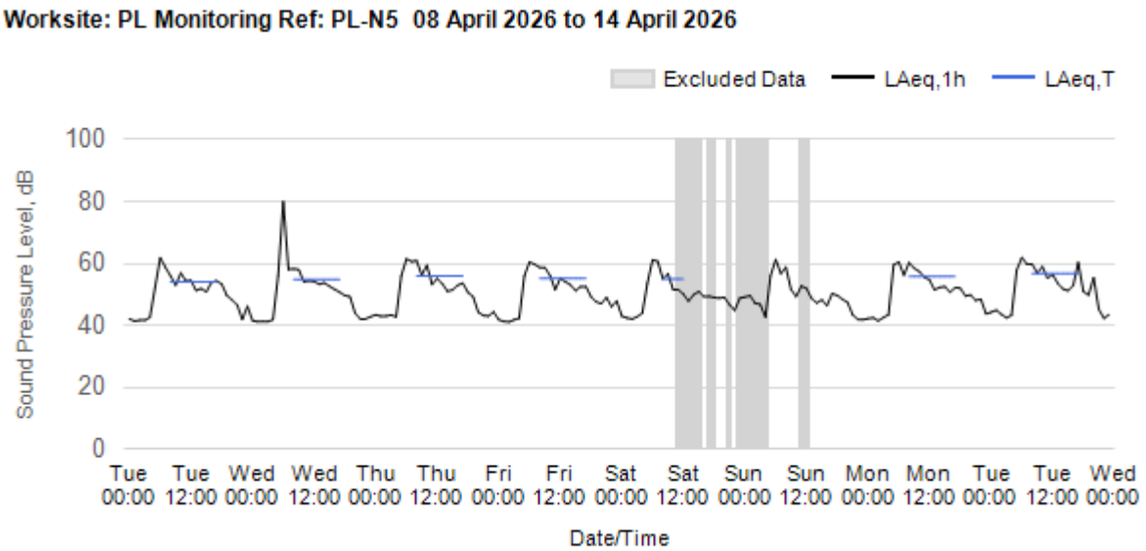
Appendix C Data

Noise

The following graphs show the hourly measured ambient noise level LAeq,1h and, where relevant, the averaged noise level LAeq,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 LAeq,T values in in Table 3 of the main report.

Worksite: PL - Monitoring Ref: PL-N5





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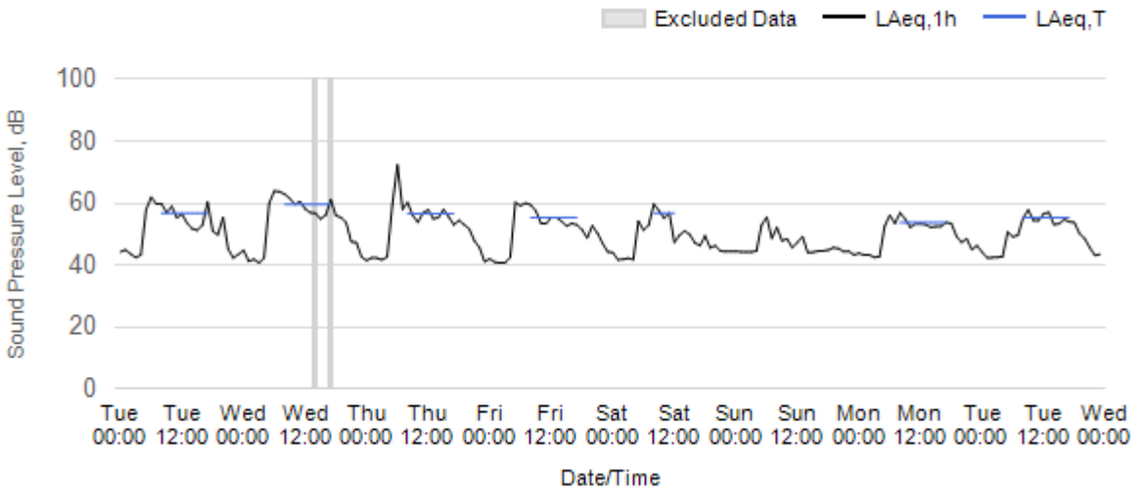
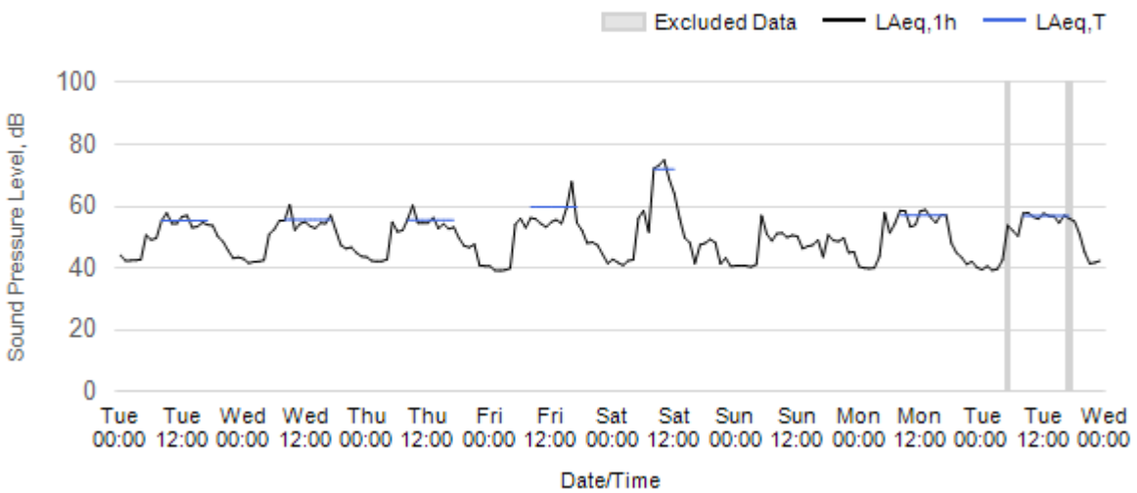


Worksite: PL Monitoring Ref: PL-N5 22 April 2026 to 28 April 2026



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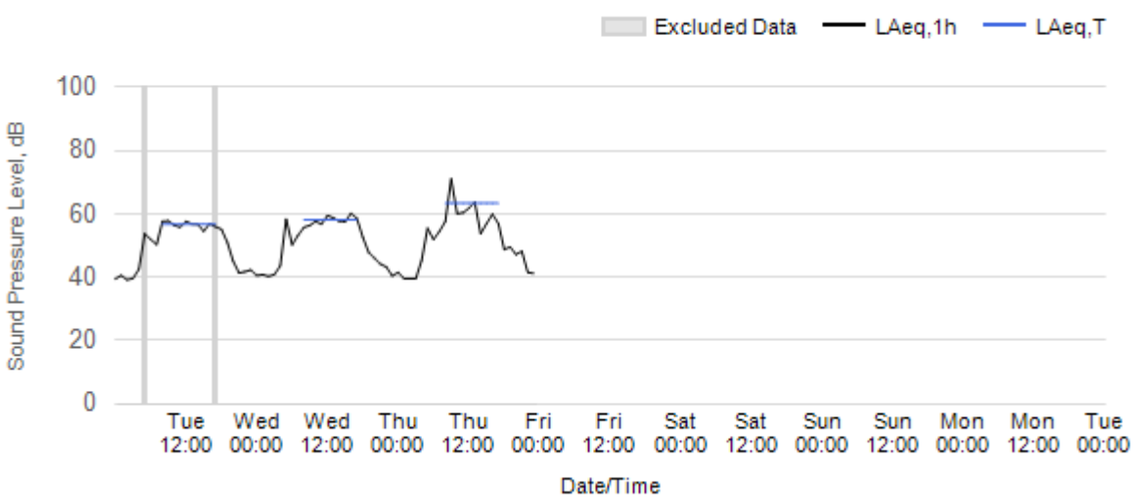
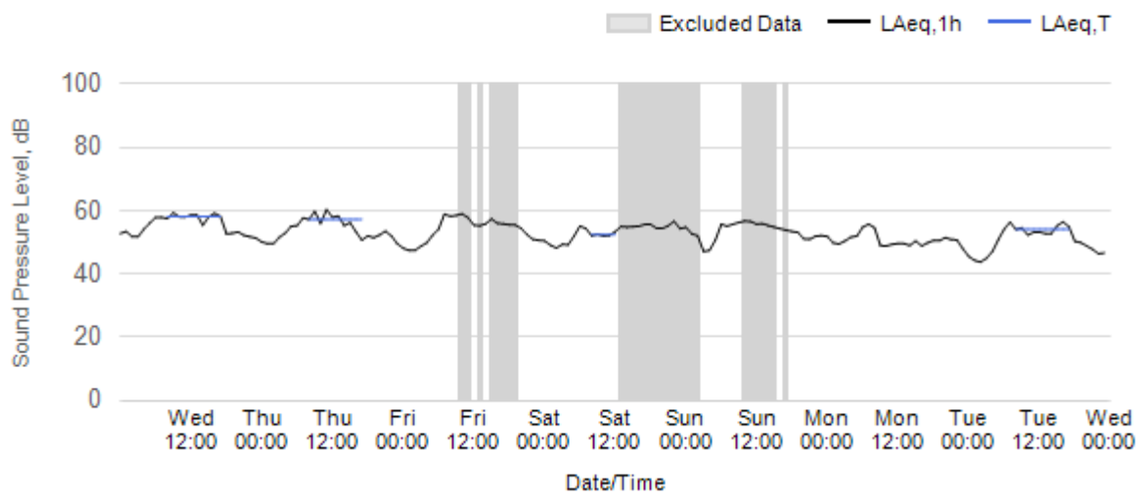


Worksite: BIS - Monitoring Ref: BIS-N1

Worksite: BIS Monitoring Ref: BIS-N1 01 April 2026 to 07 April 2026



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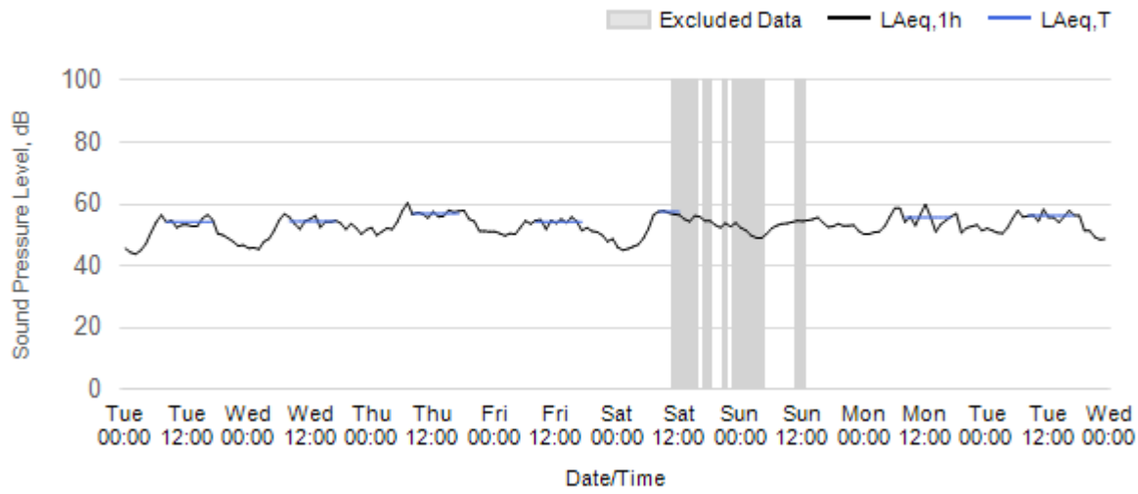

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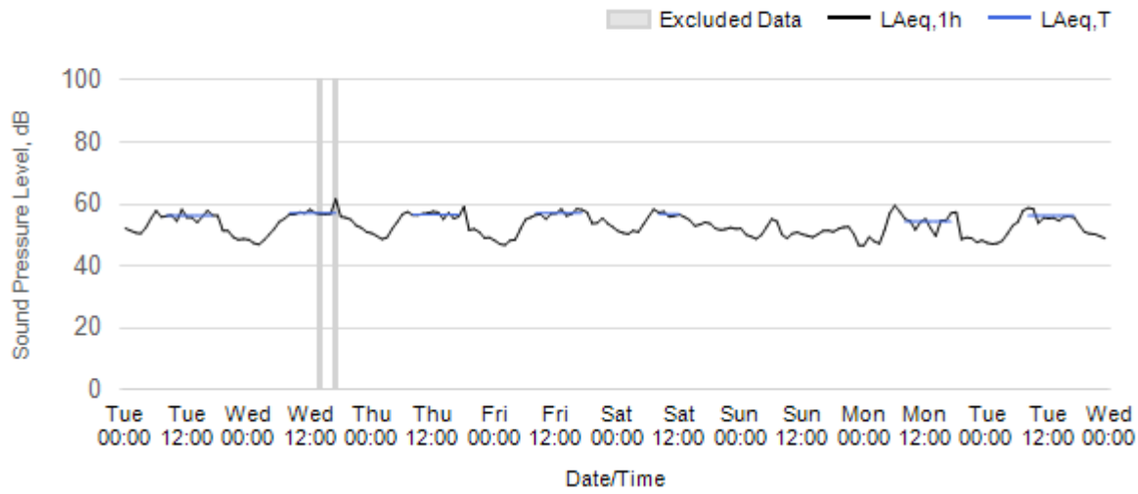

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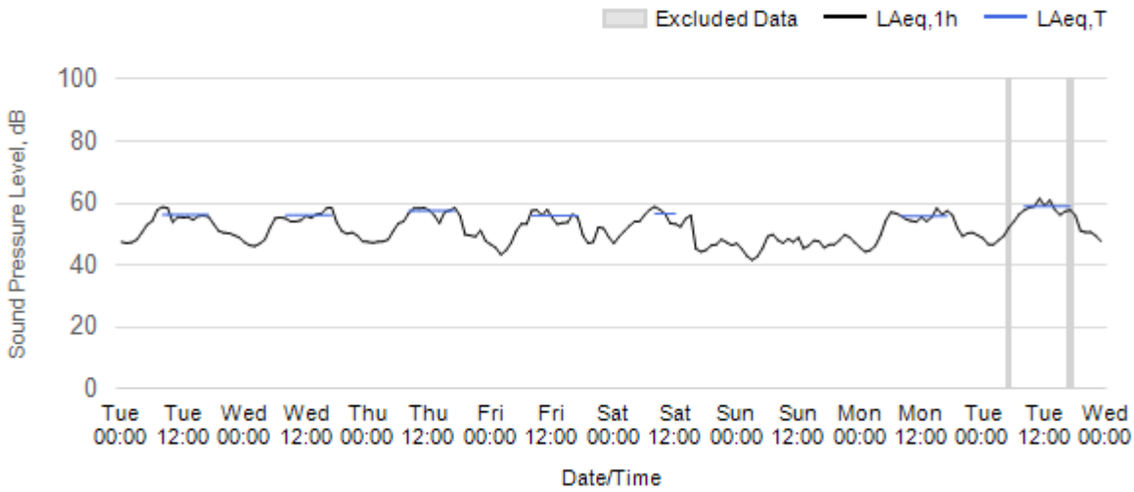

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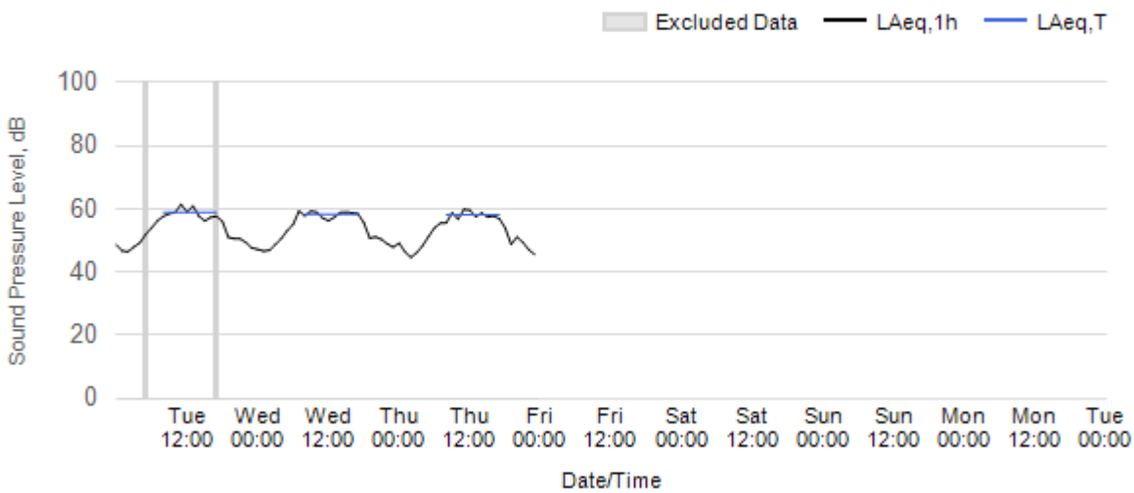

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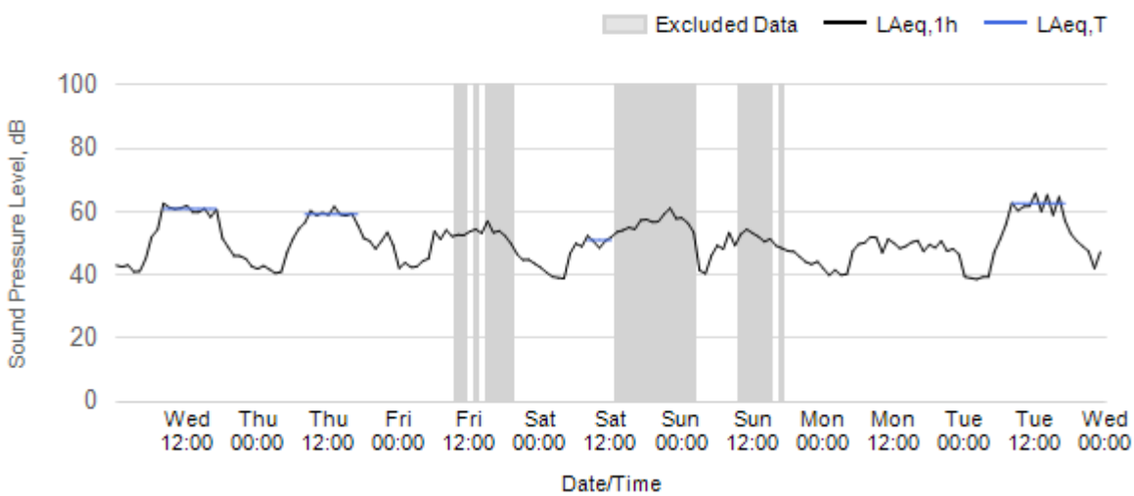
Worksite: PL Monitoring Ref: PL-N1 01 April 2026 to 07 April 2026



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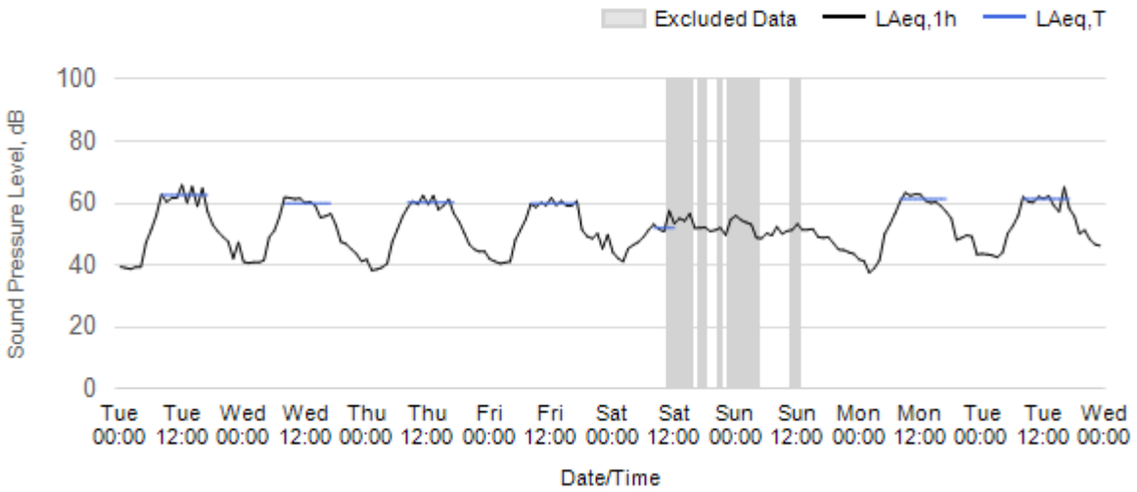

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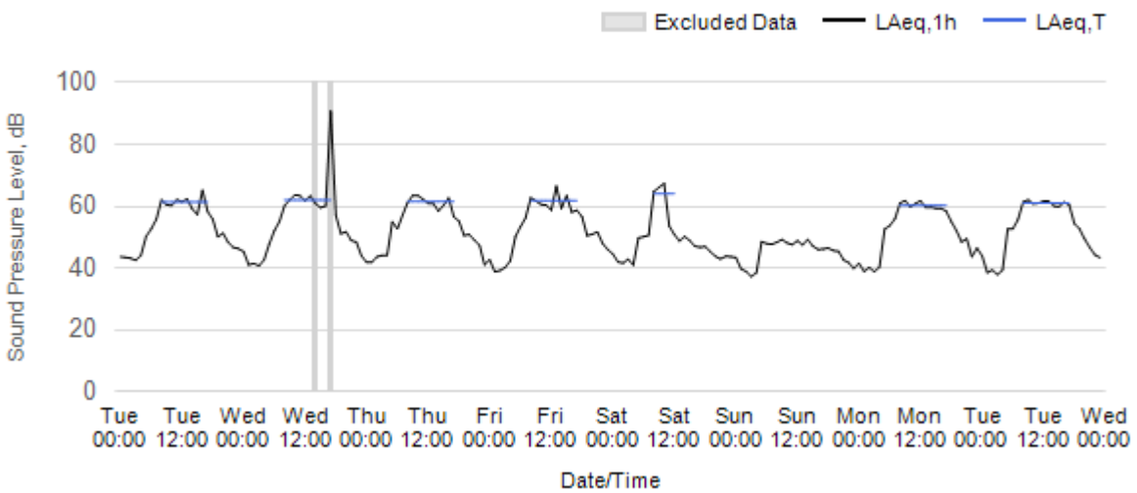

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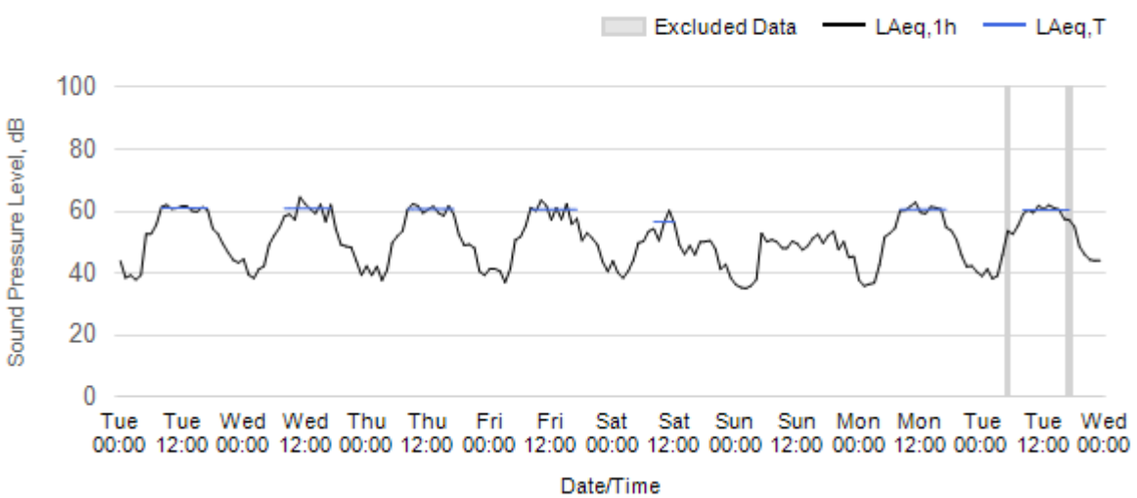

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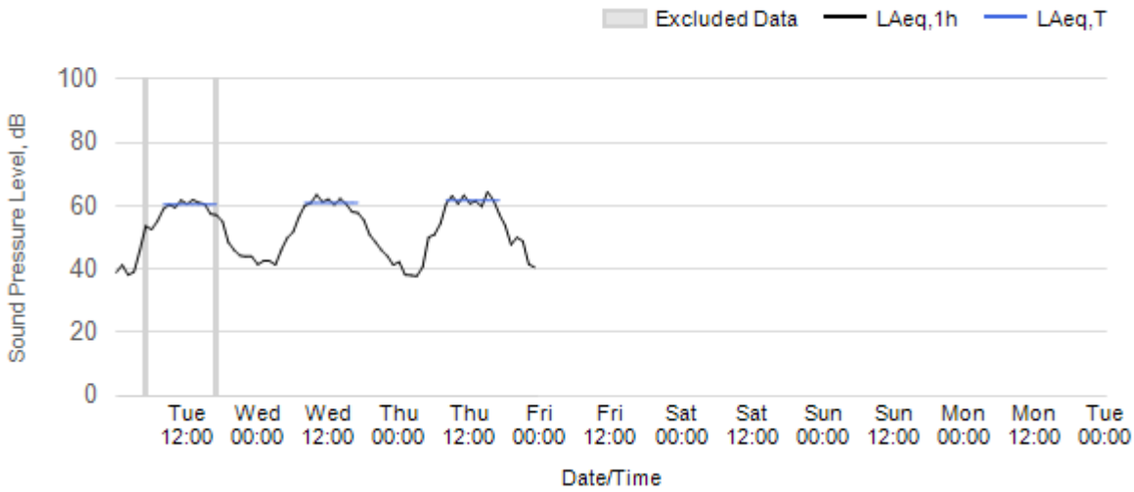

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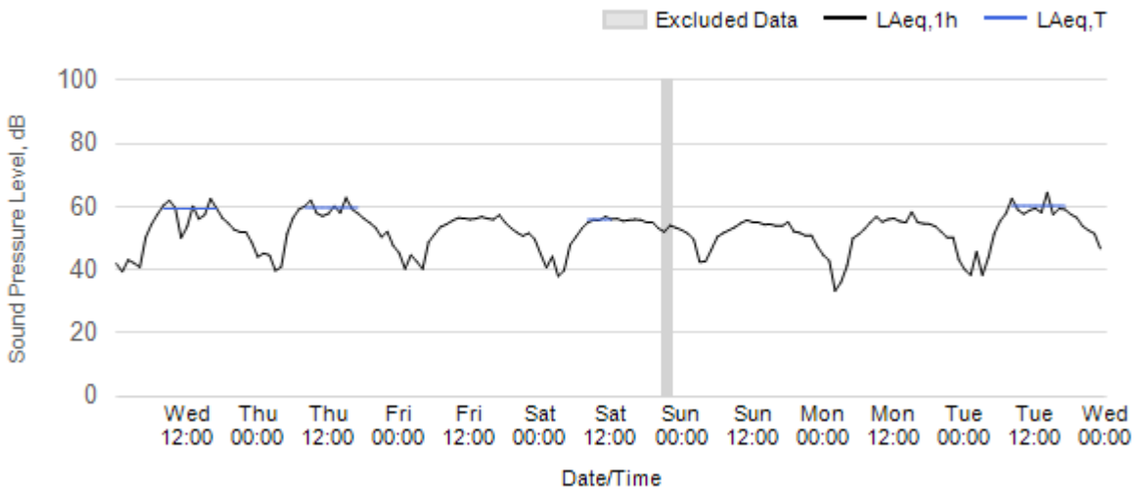

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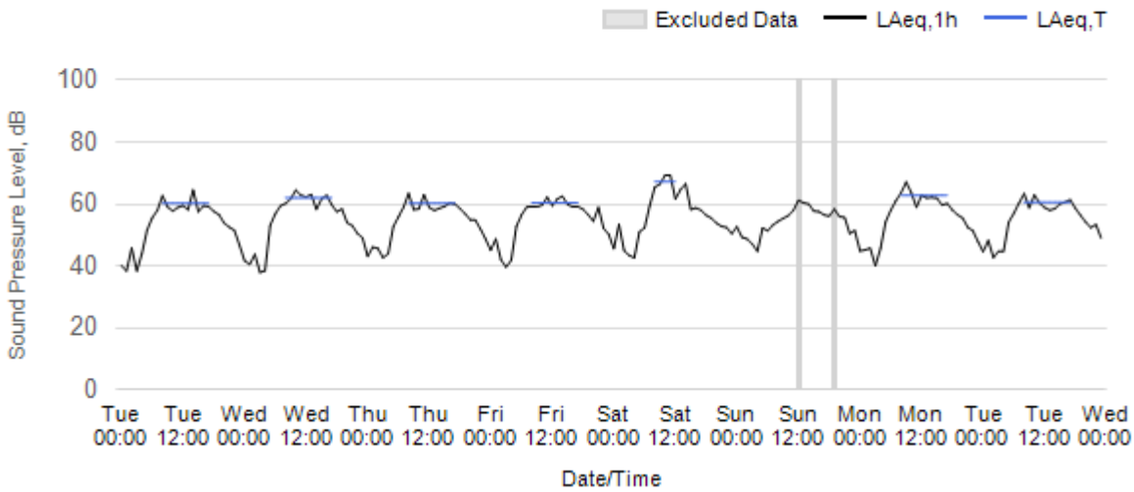

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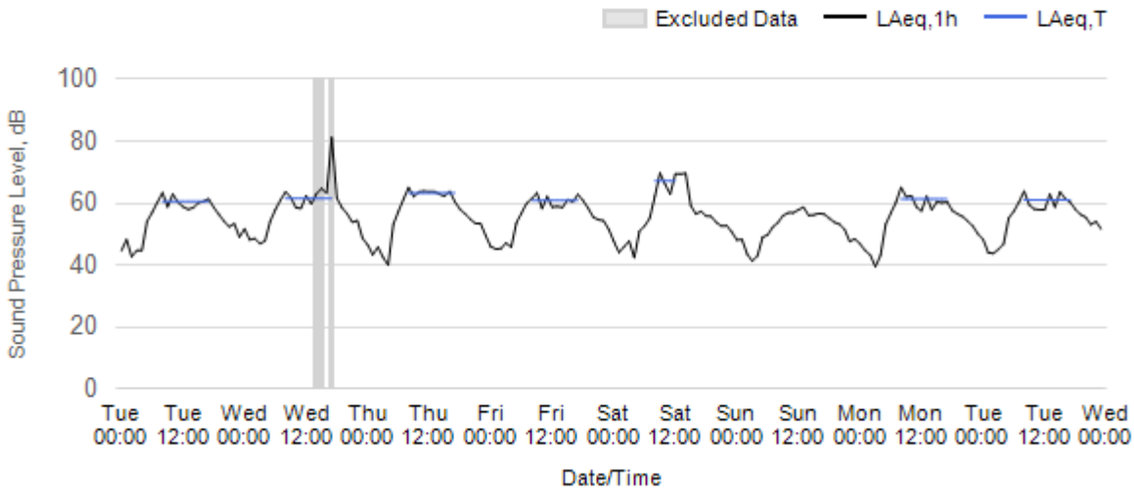

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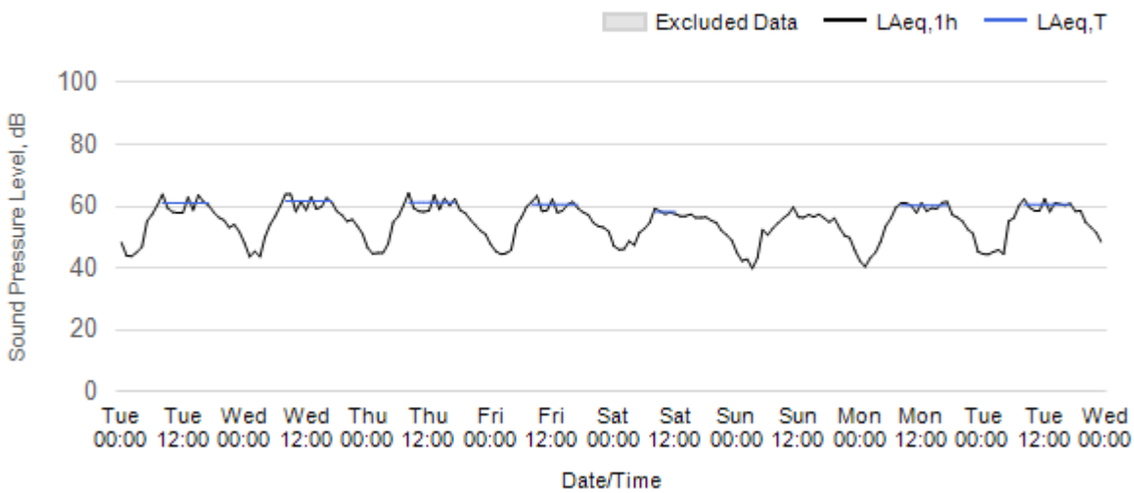

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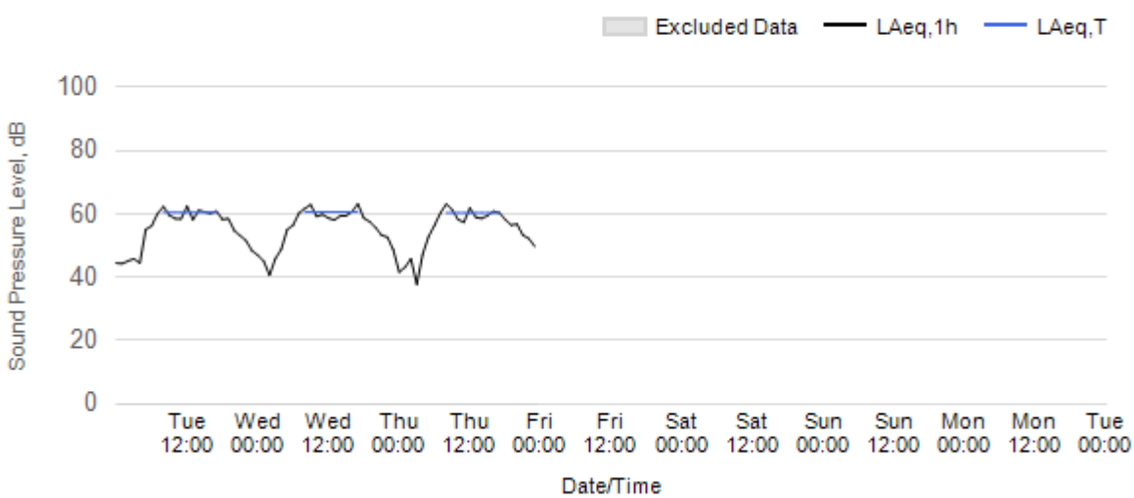

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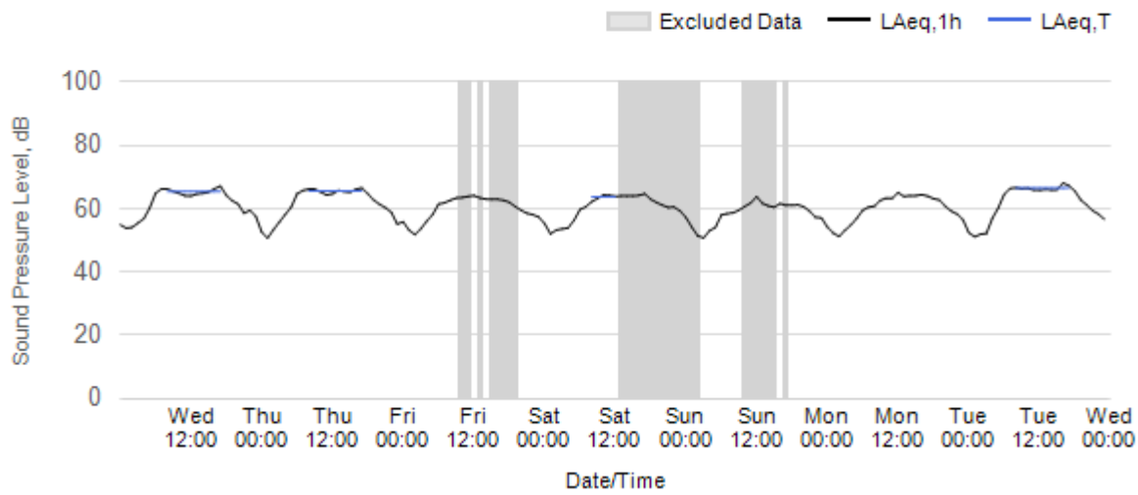

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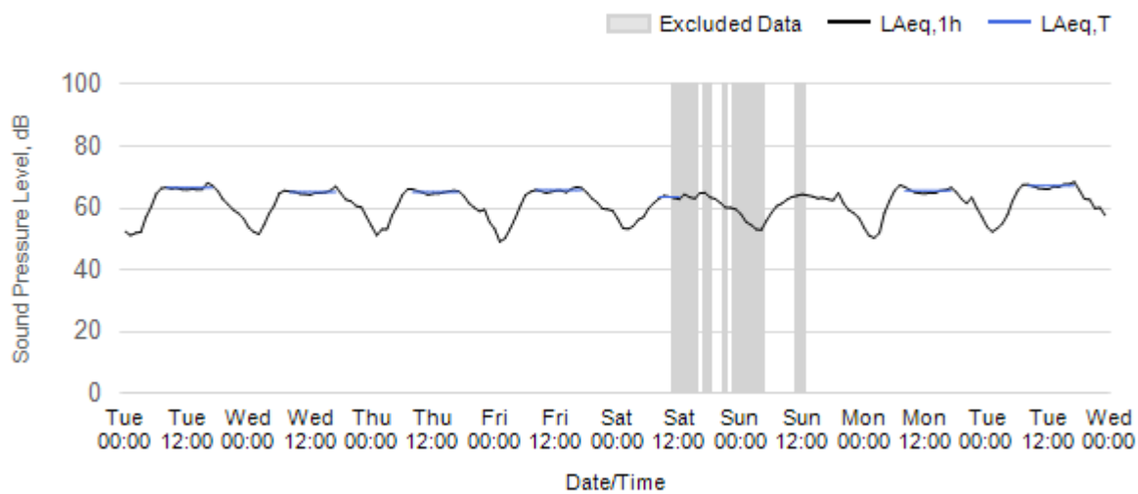

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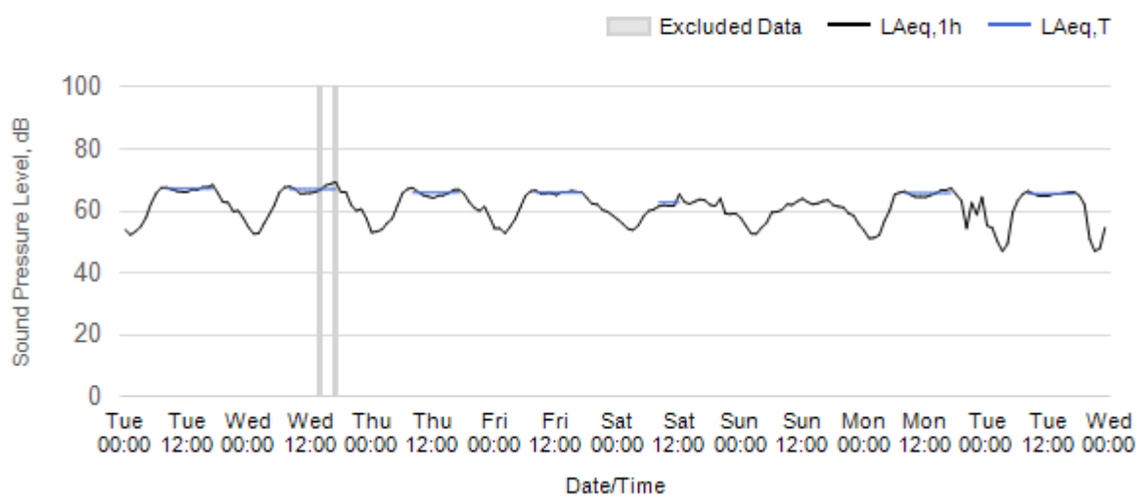

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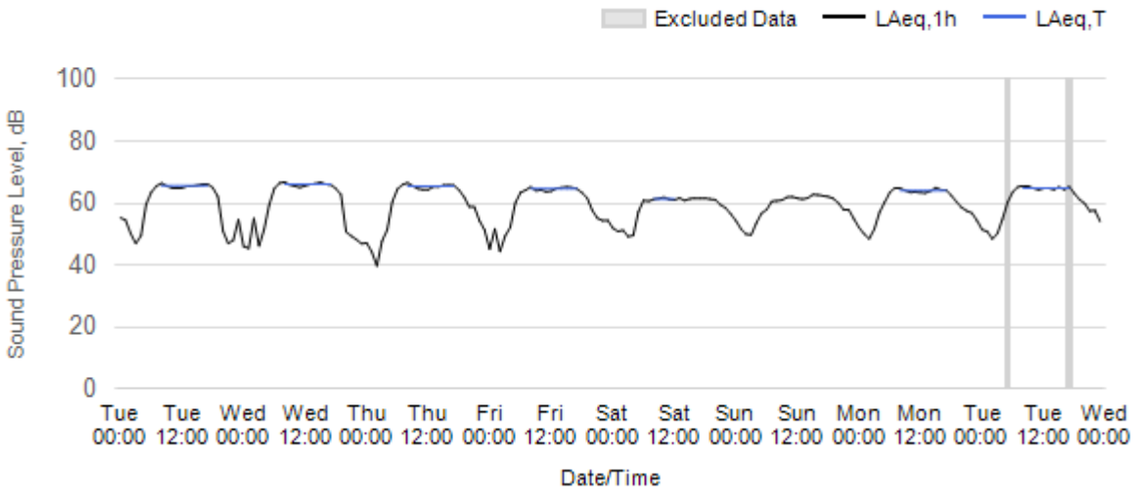

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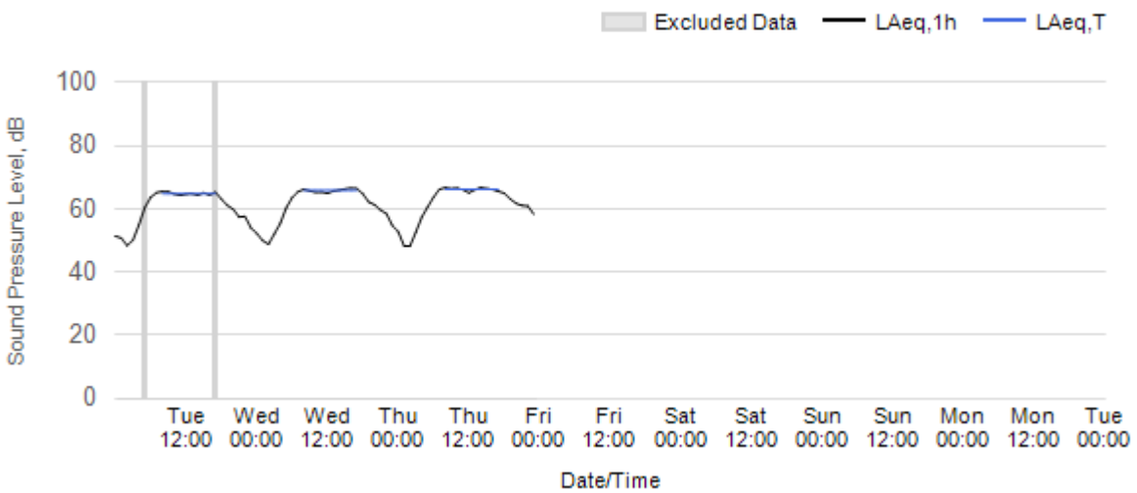

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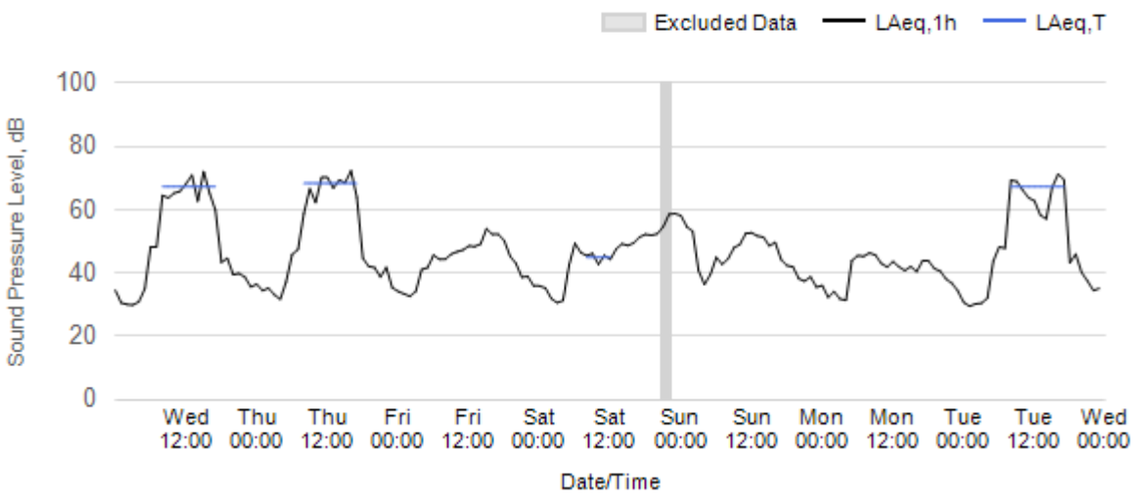
Worksite: WLOS Monitoring Ref: WLOS-N1 01 April 2026 to 07 April 2026



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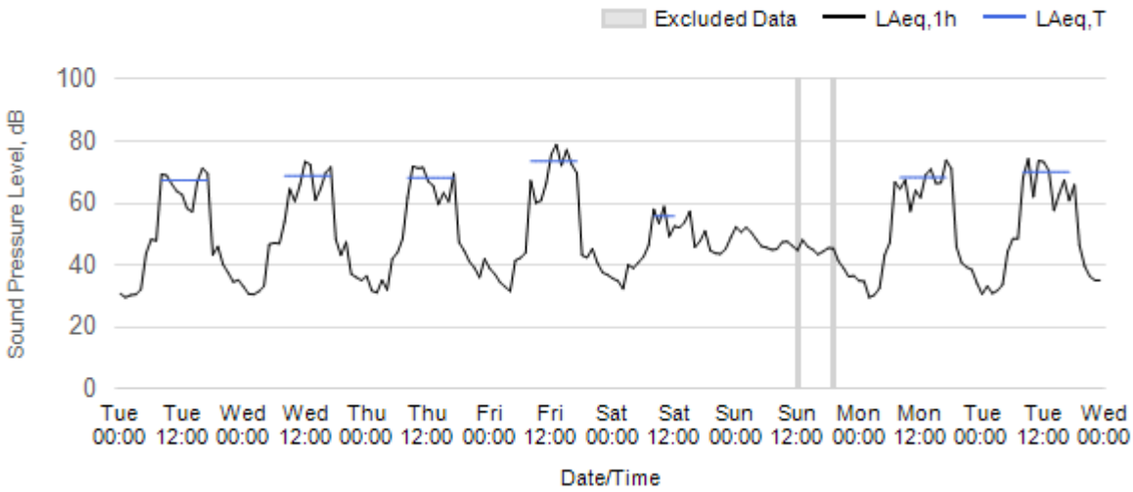

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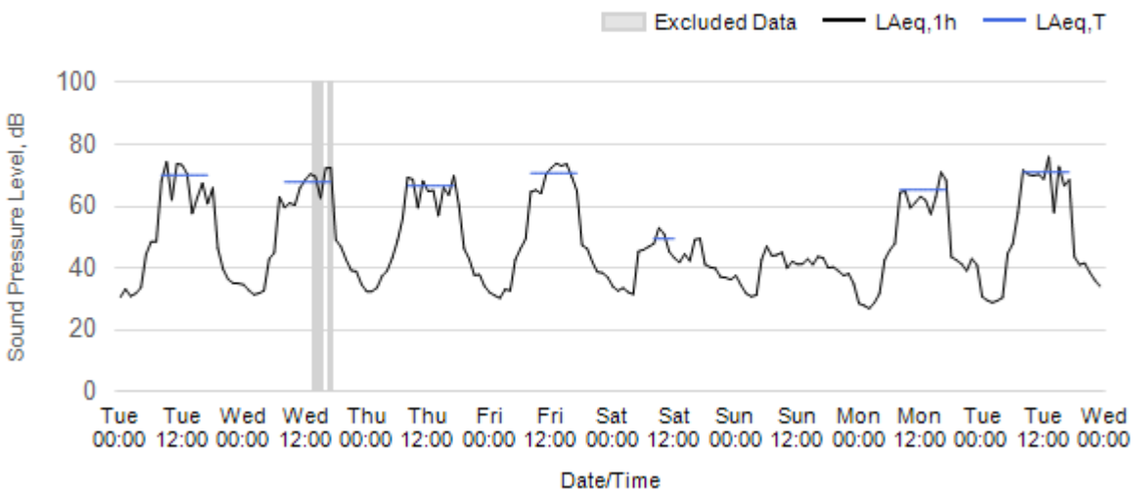

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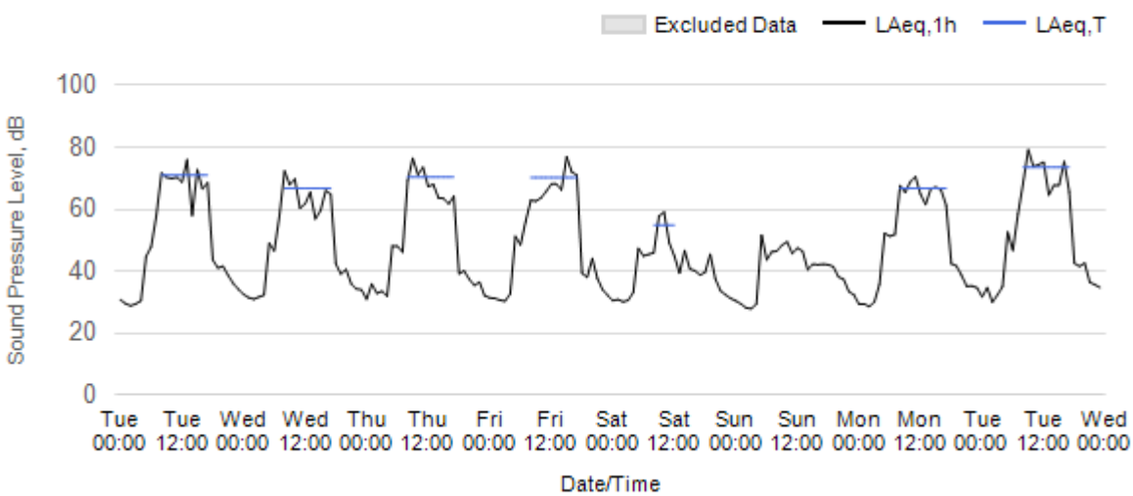

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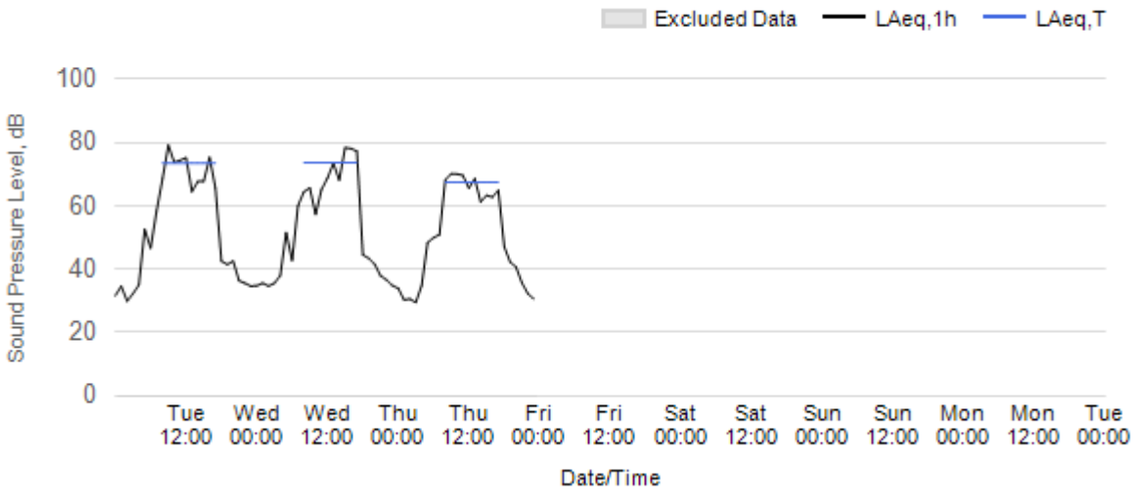
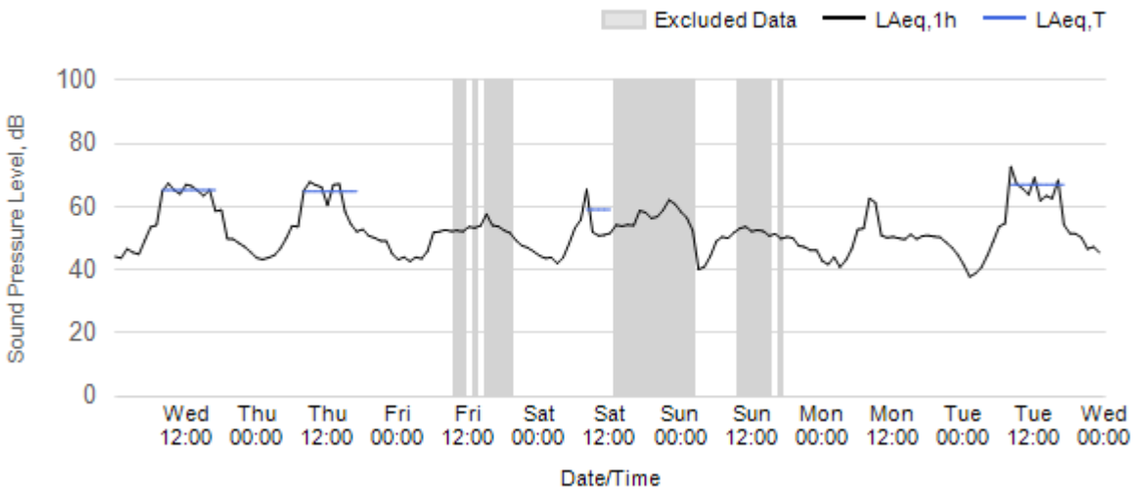


Worksite: BBE - Monitoring Ref: BBE-N1

Worksite: BBE Monitoring Ref: BBE-N1 01 April 2026 to 07 April 2026



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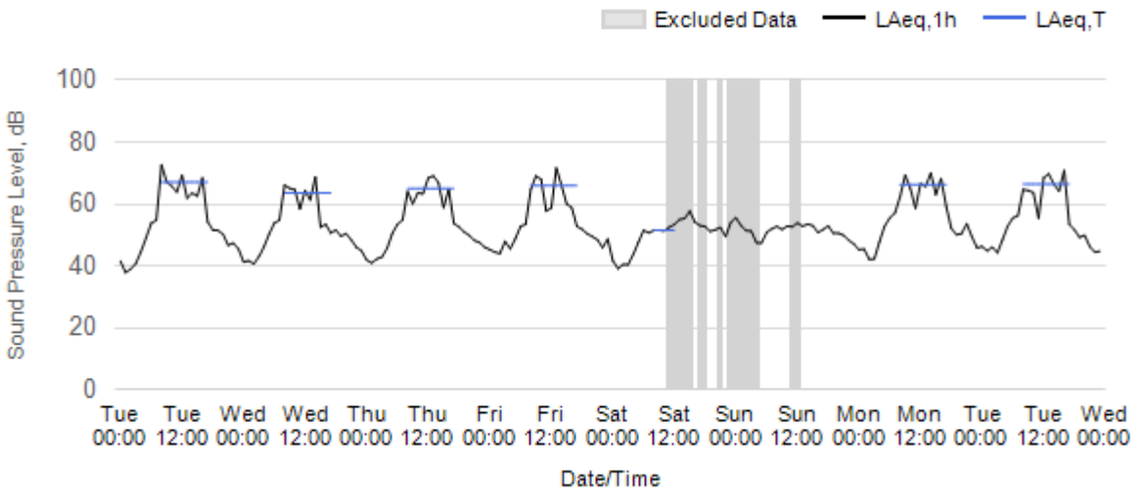
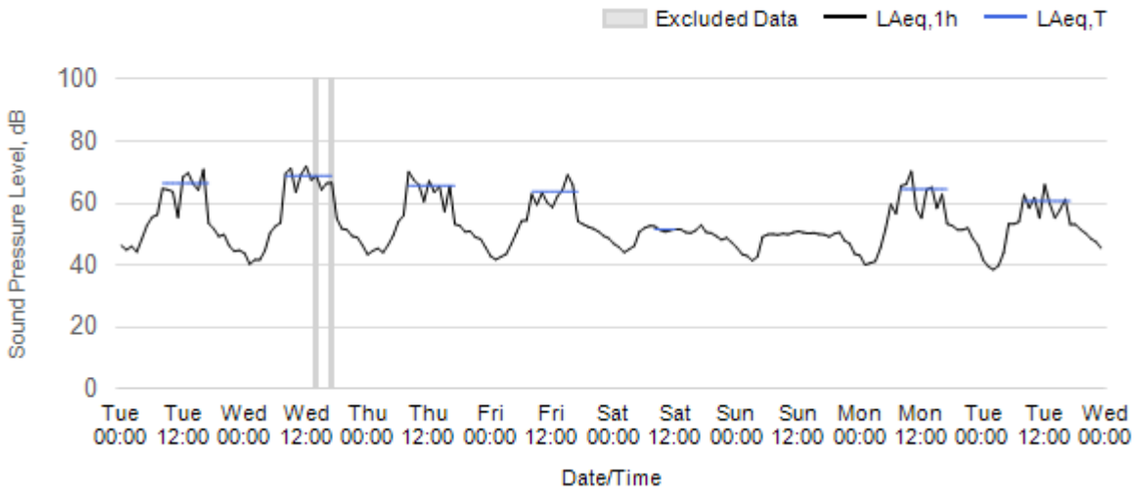
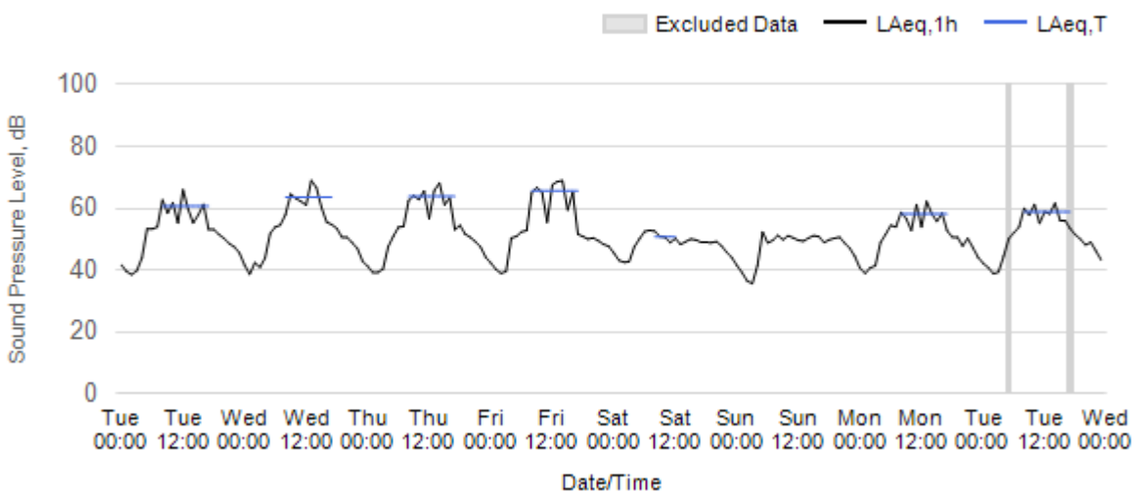


Worksite: BBE Monitoring Ref: BBE-N1 15 April 2026 to 21 April 2026



Worksite: BBE Monitoring Ref: BBE-N1 22 April 2026 to 28 April 2026



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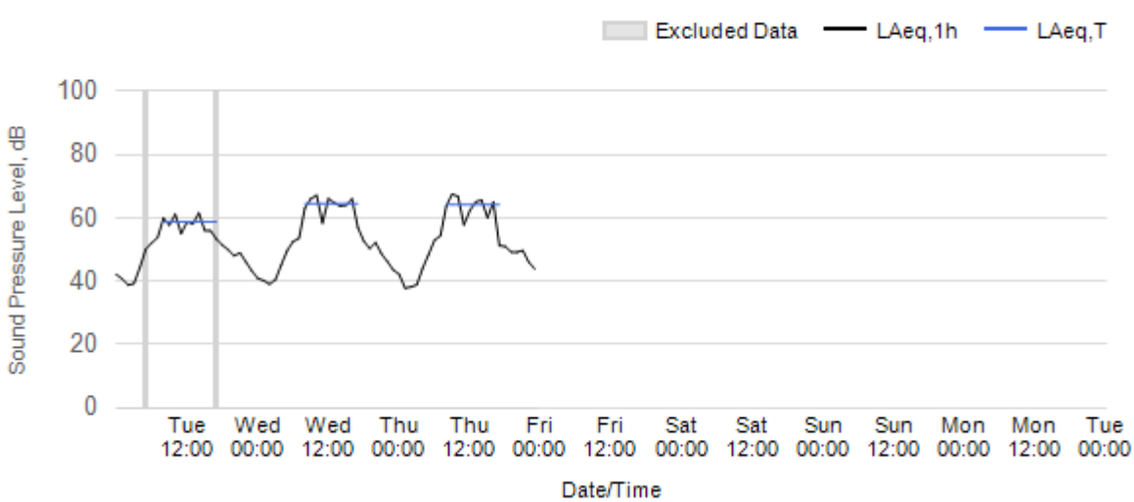

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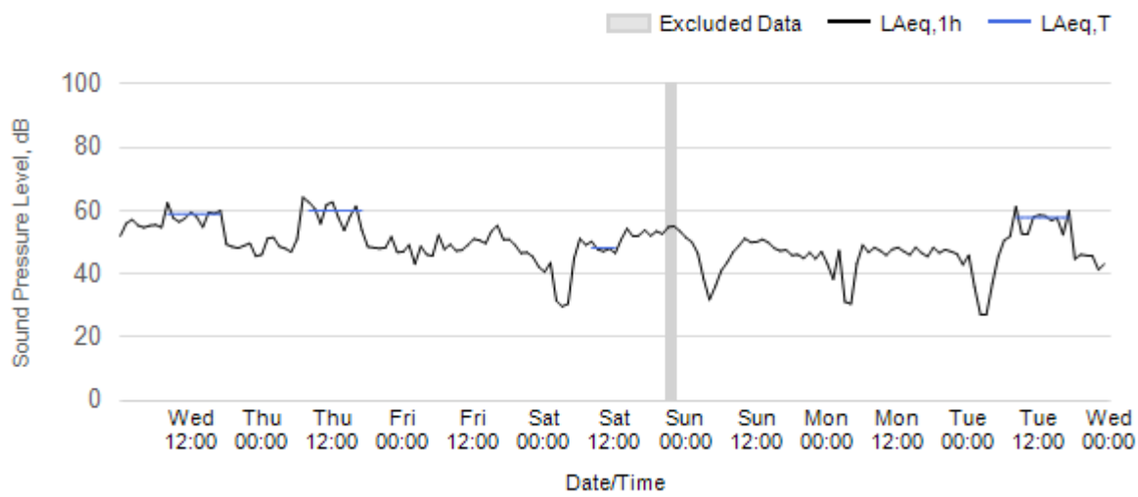
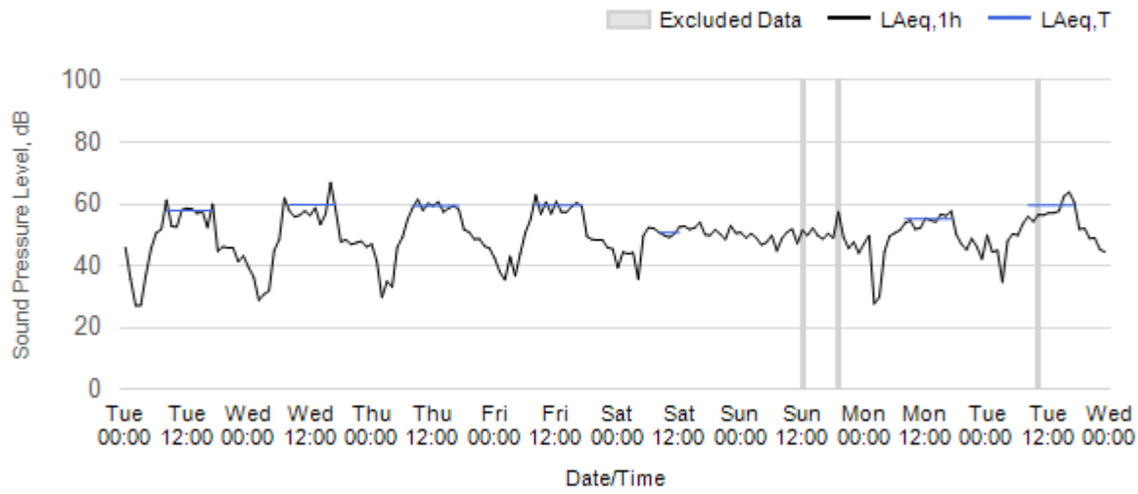
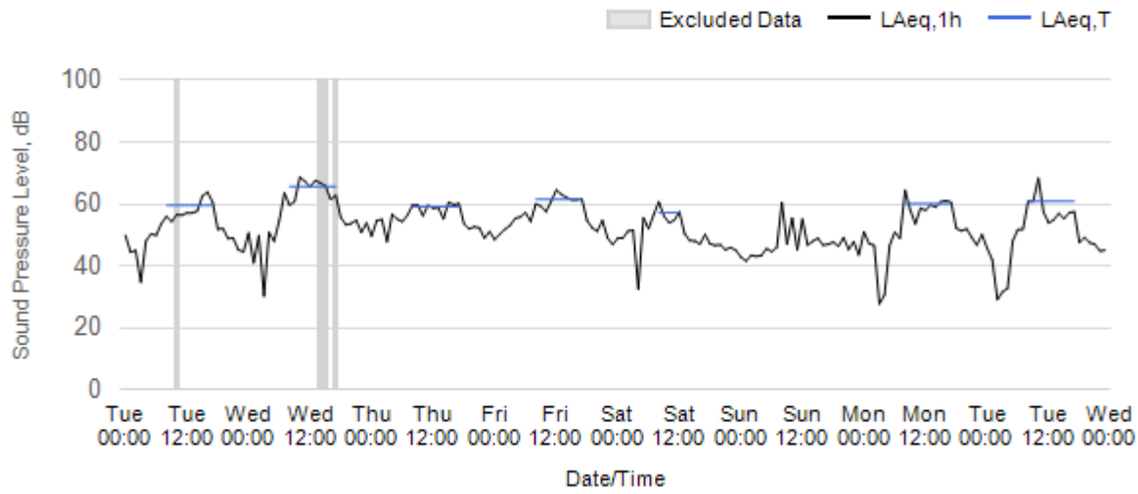
Worksite: CGRU Monitoring Ref: CGRU-N1 01 April 2026 to 07 April 2026



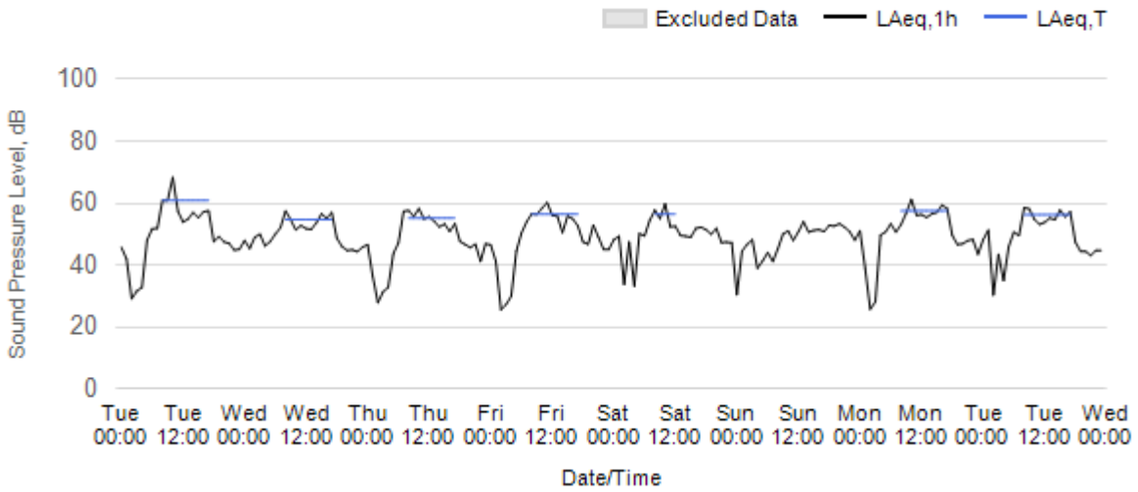
Worksite: CGRU Monitoring Ref: CGRU-N1 08 April 2026 to 14 April 2026



Worksite: CGRU Monitoring Ref: CGRU-N1 15 April 2026 to 21 April 2026



Worksite: CGRU Monitoring Ref: CGRU-N1 22 April 2026 to 28 April 2026



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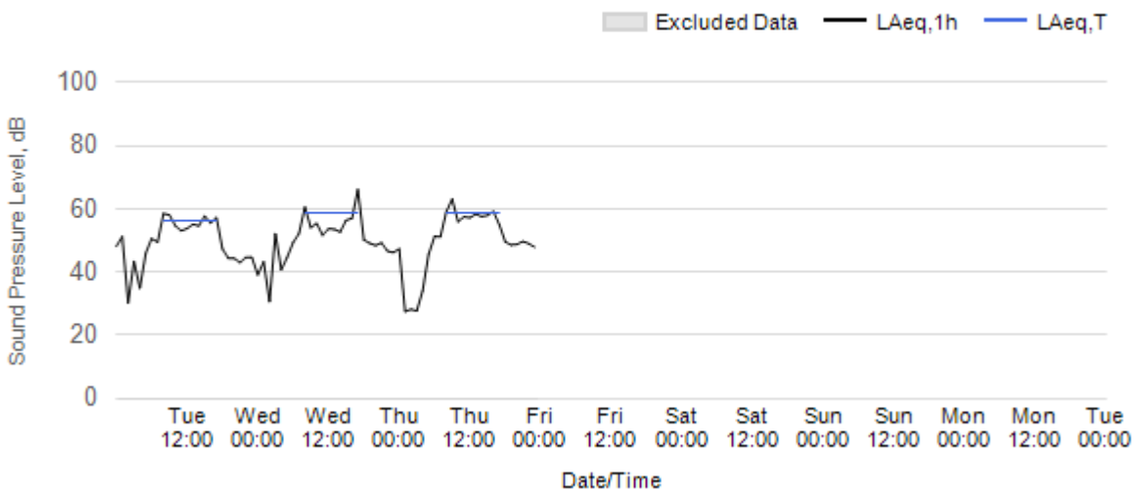
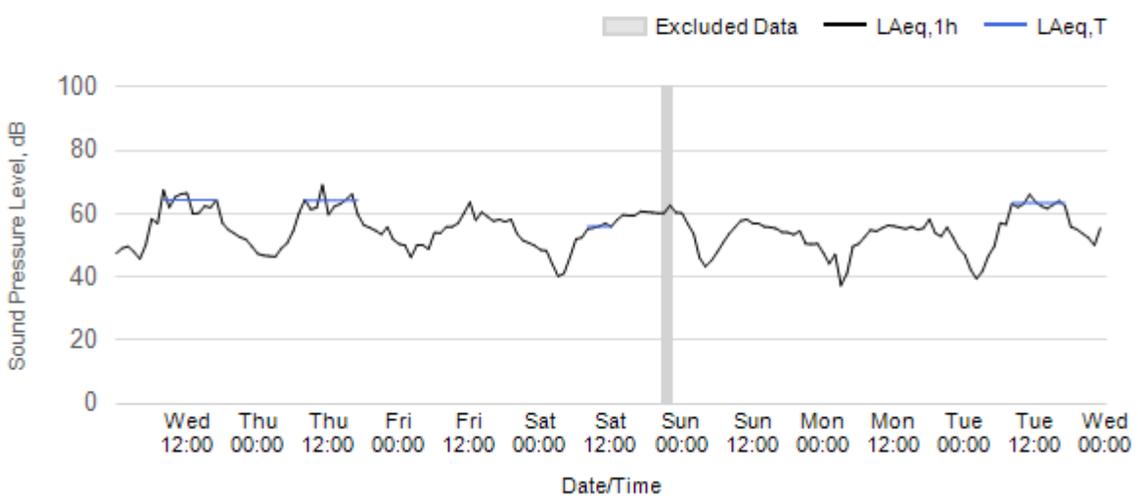


Worksite: BCV - Monitoring Ref: BCV-N1

Worksite: BCV Monitoring Ref: BCV-N1 01 April 2026 to 07 April 2026



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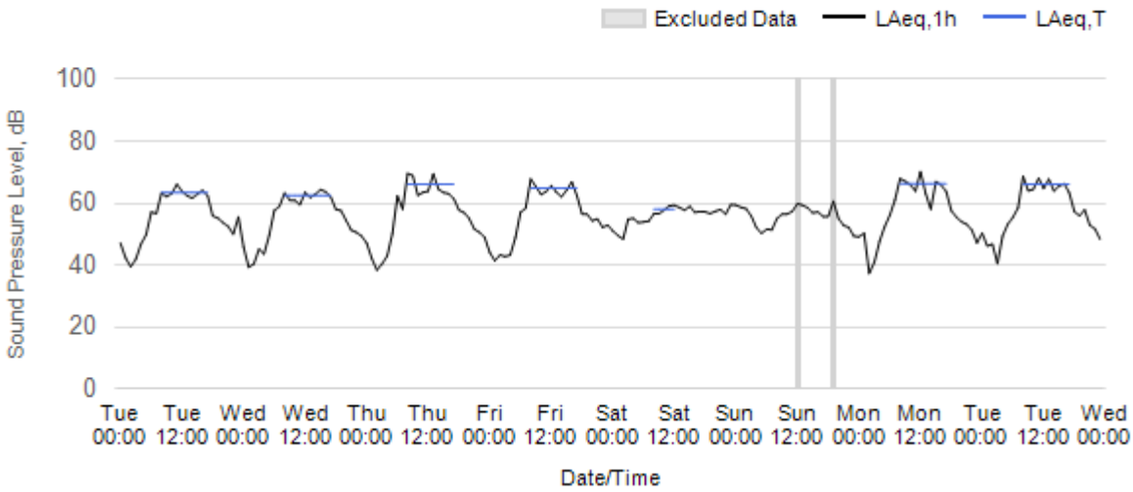

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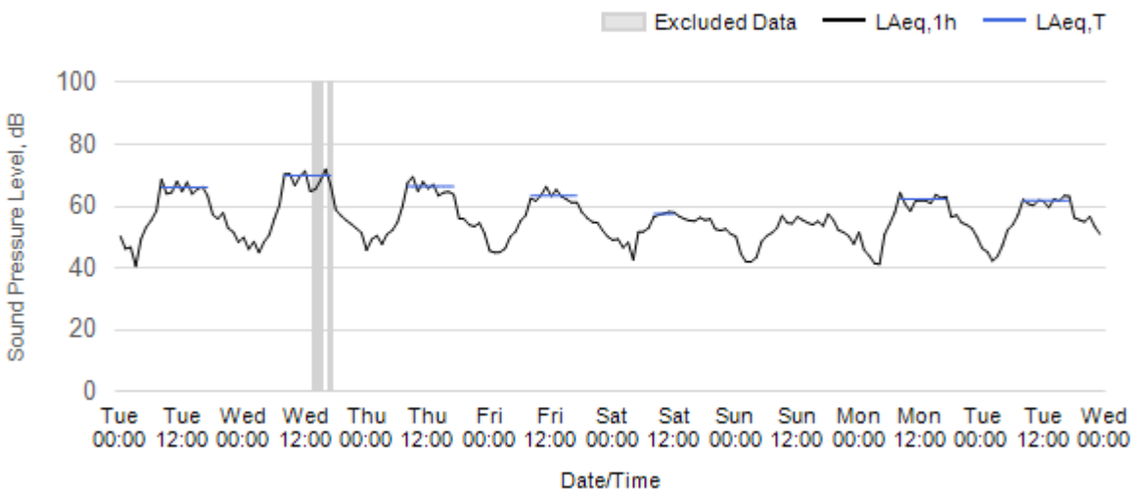

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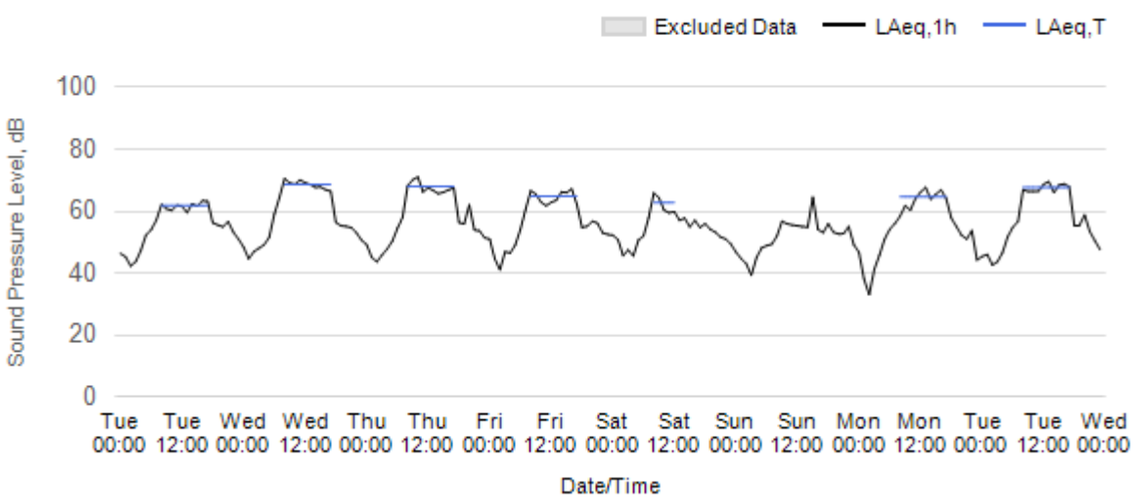

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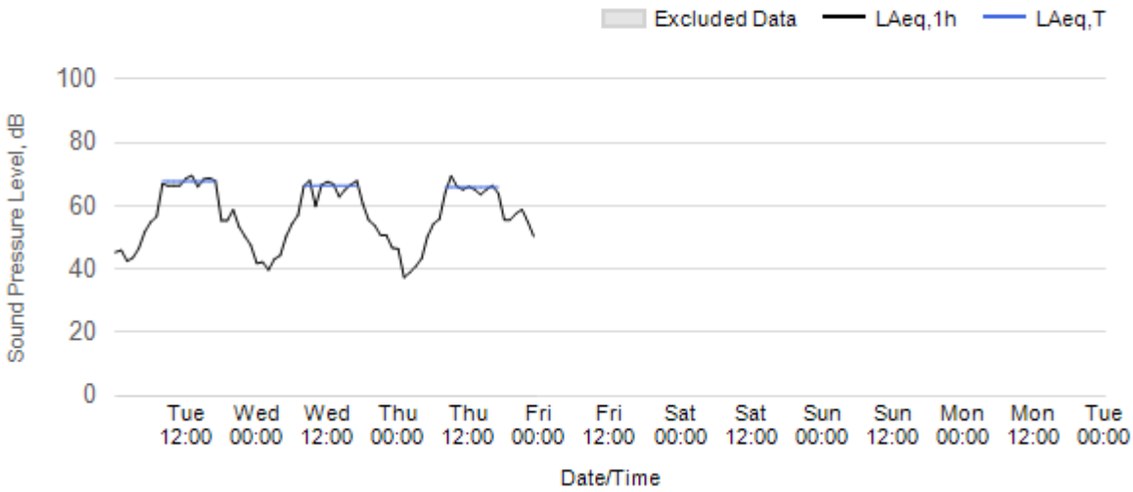

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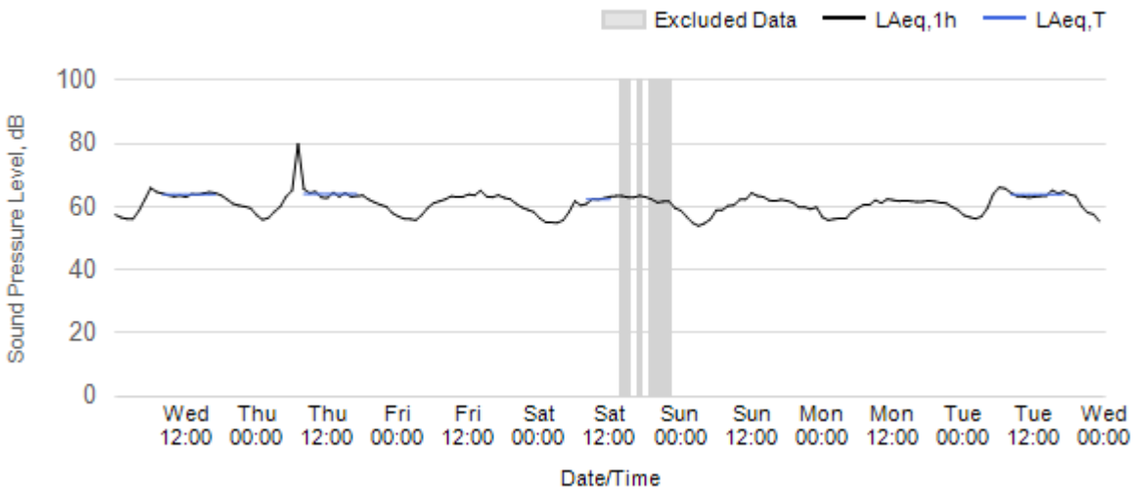
Worksite: CHR Monitoring Ref: CHR-N1 01 April 2026 to 07 April 2026



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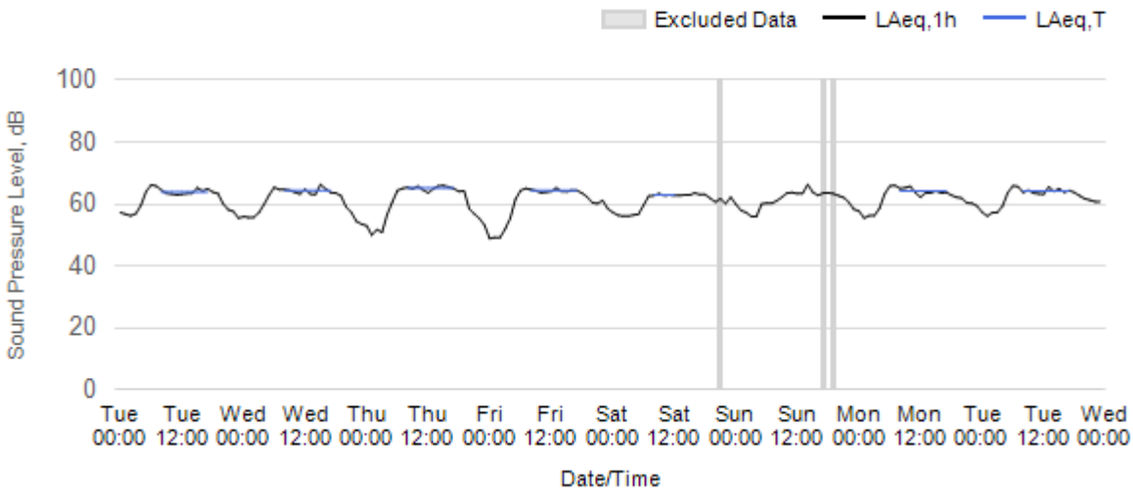

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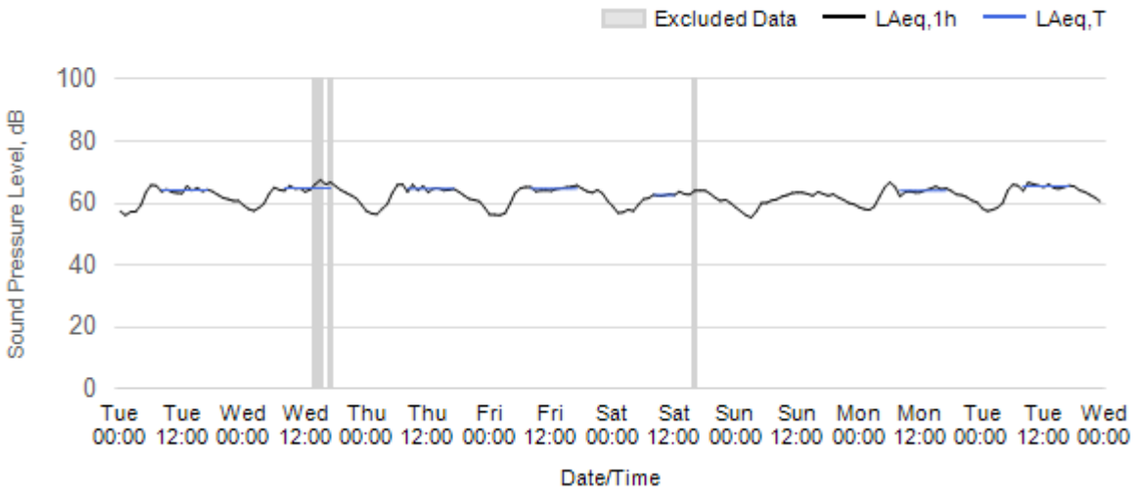

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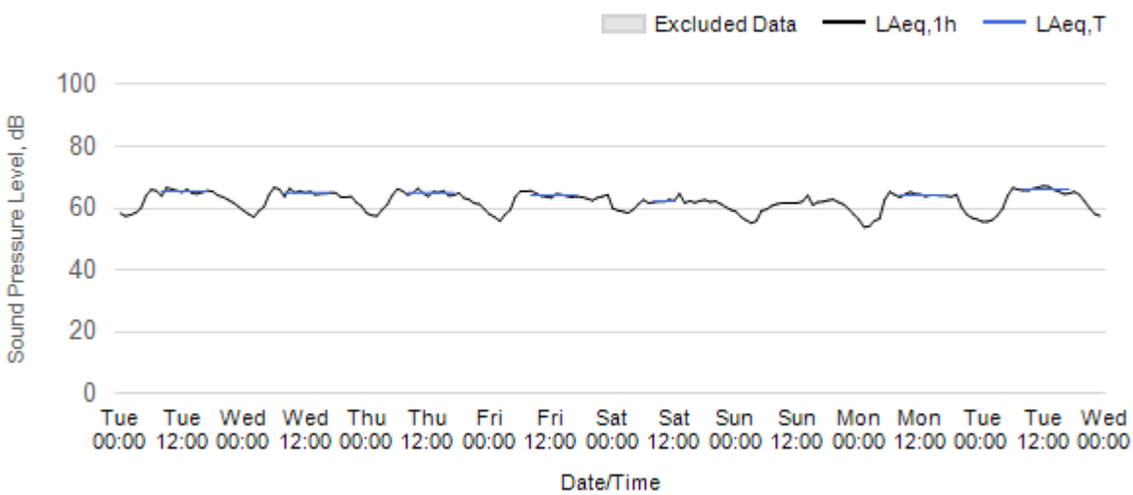

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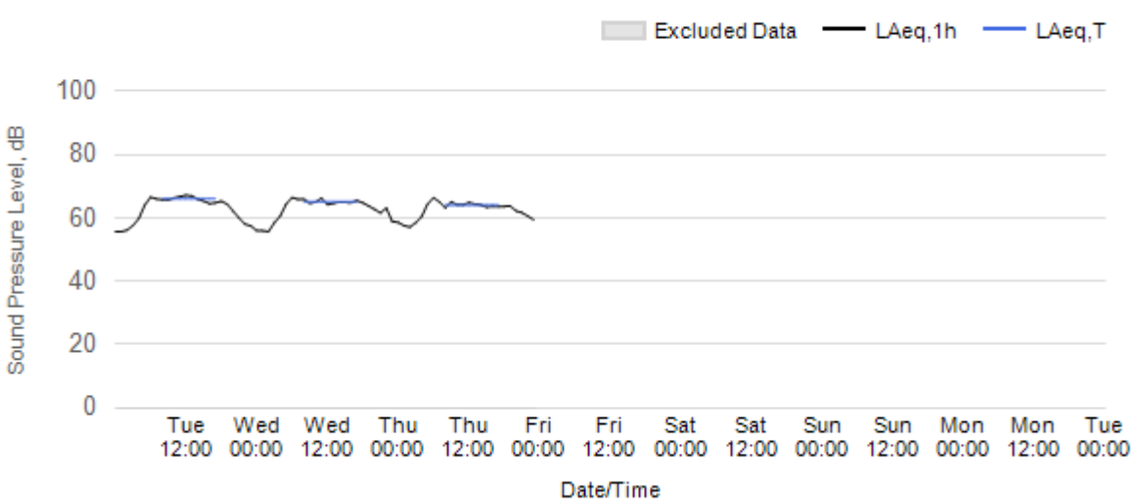

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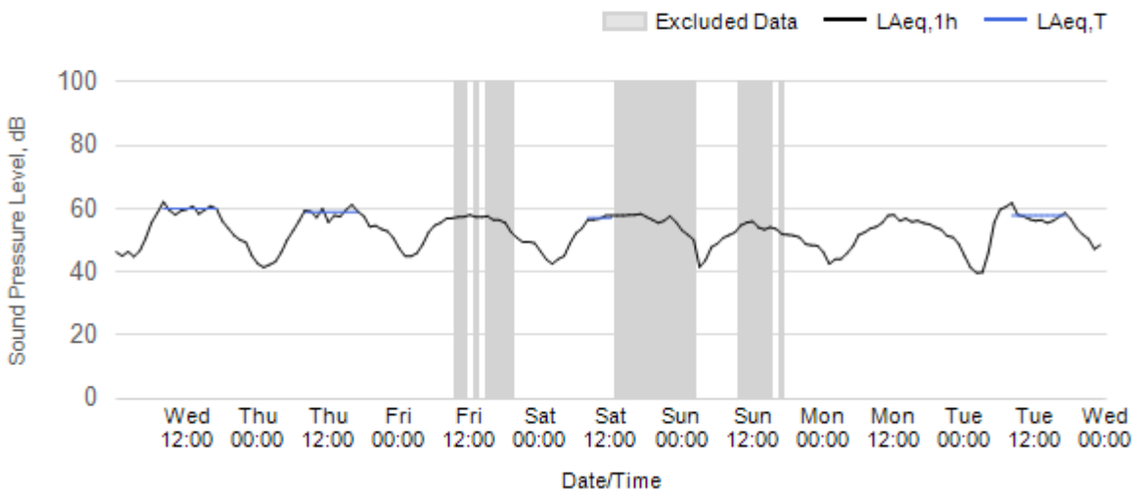
Worksite: PL Monitoring Ref: PL-N3 01 April 2026 to 07 April 2026



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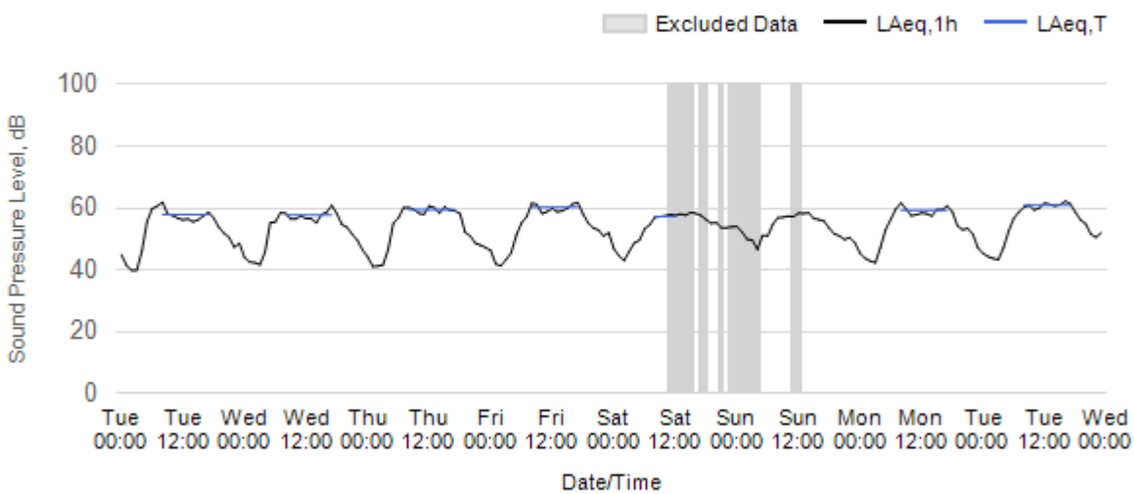

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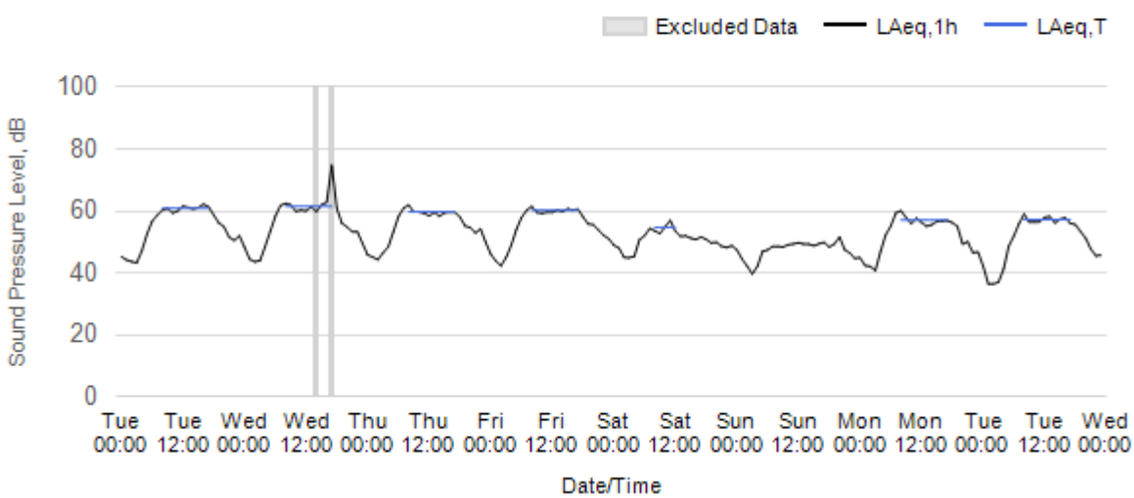

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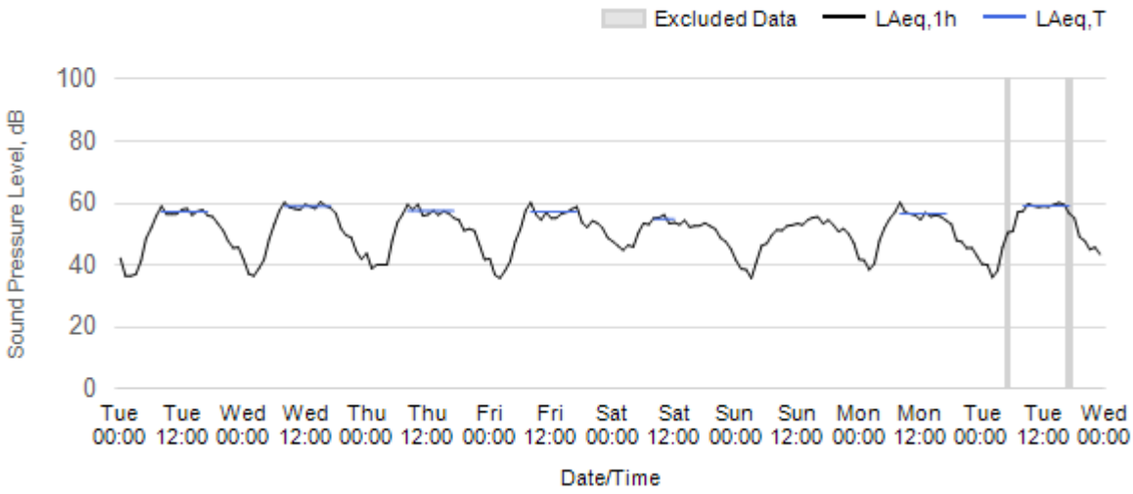

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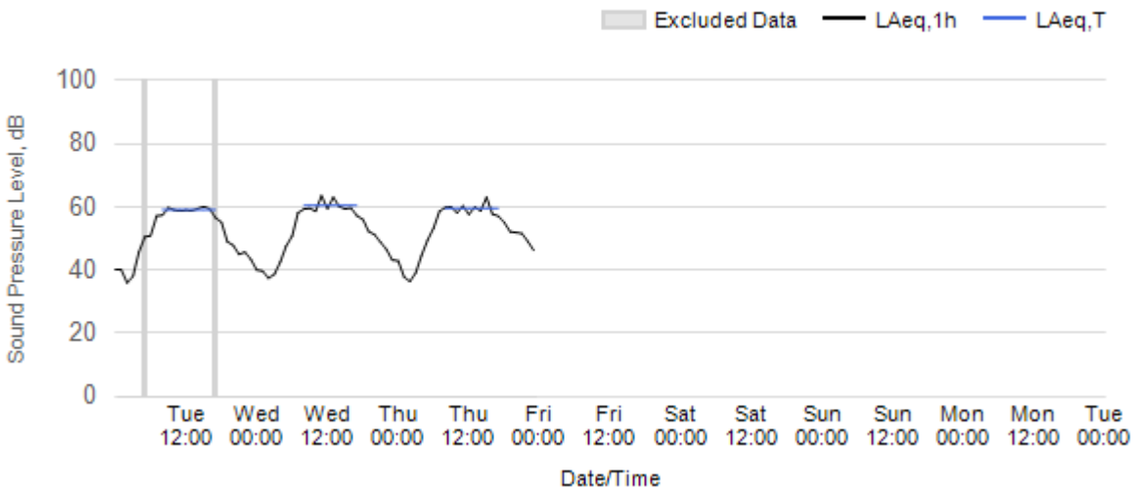

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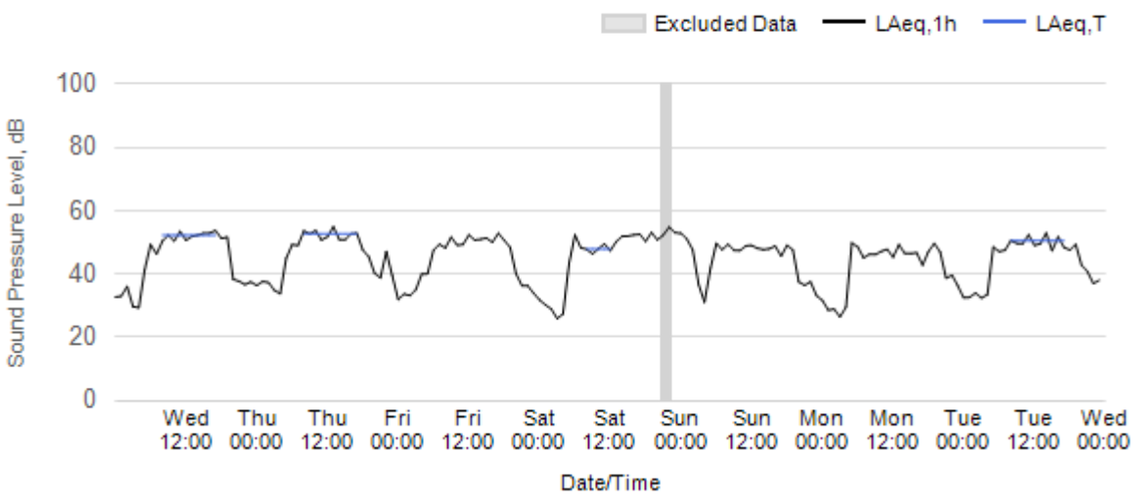
Worksite: WL Monitoring Ref: WL-N2 01 April 2026 to 07 April 2026



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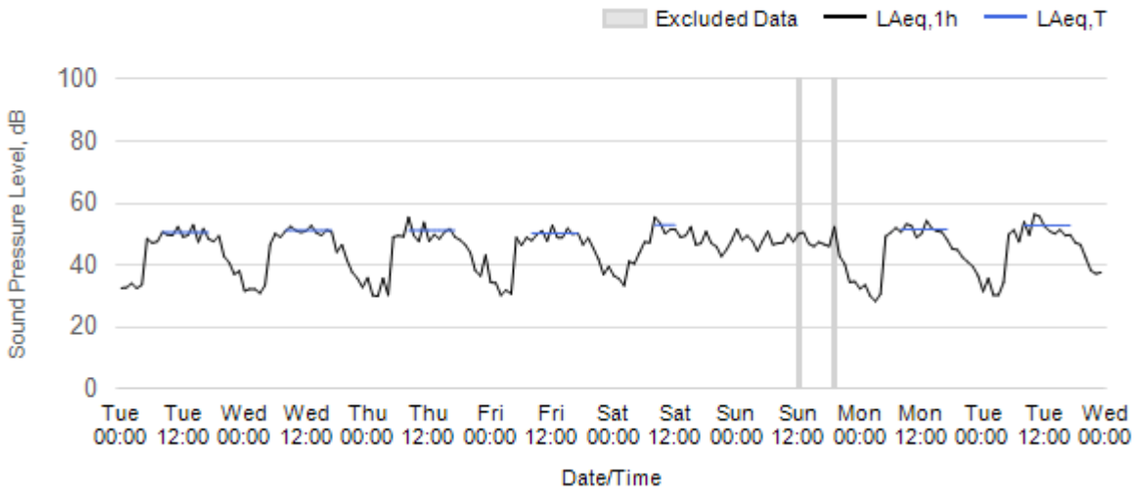

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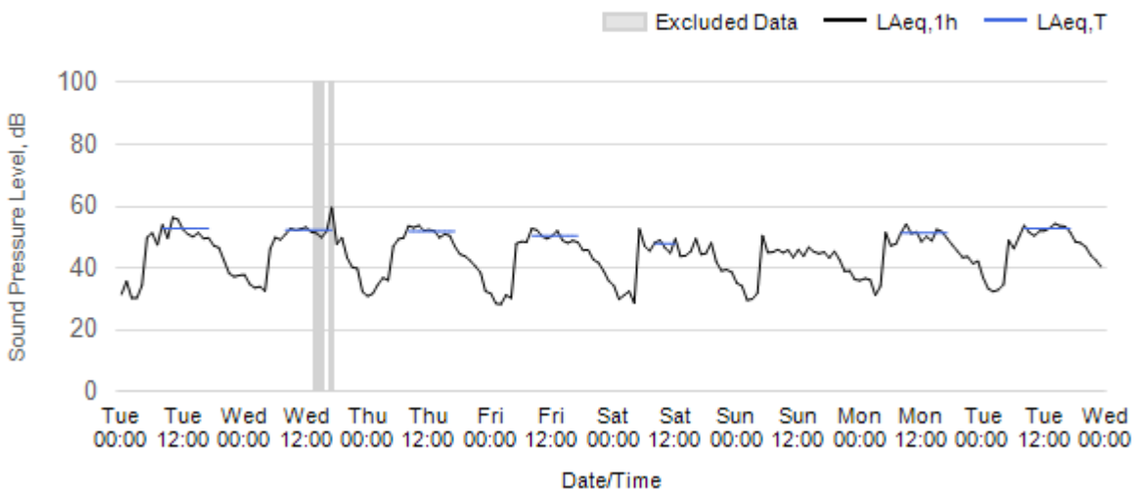

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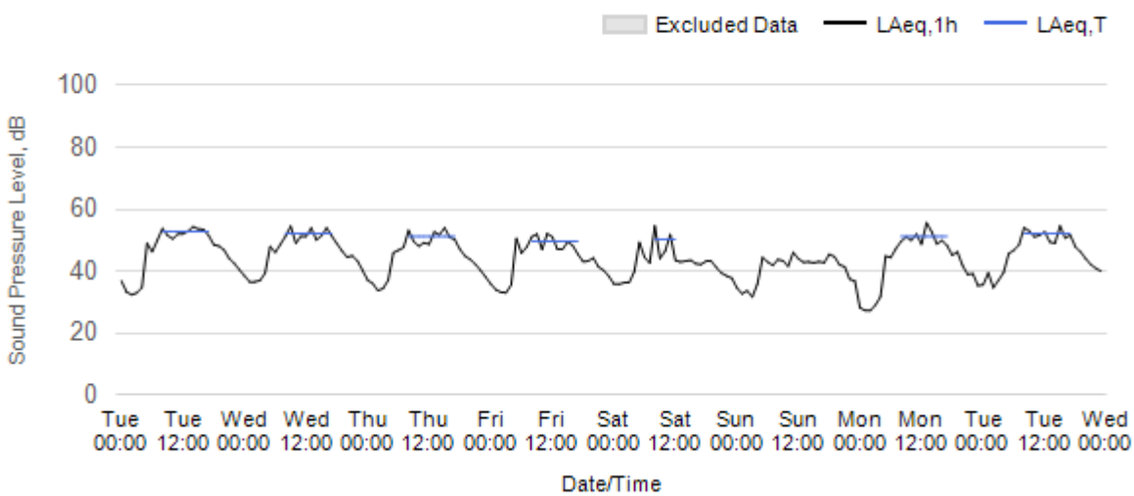

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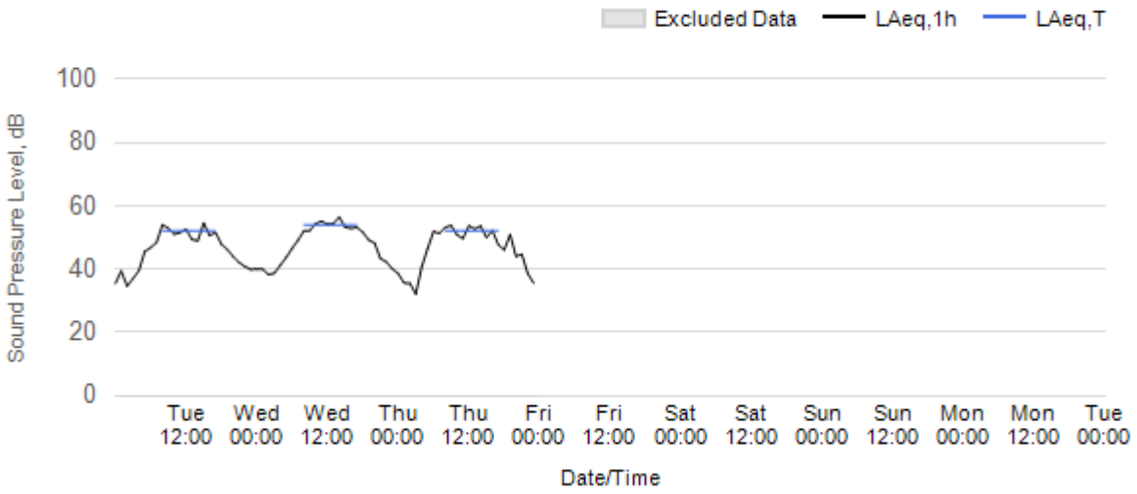
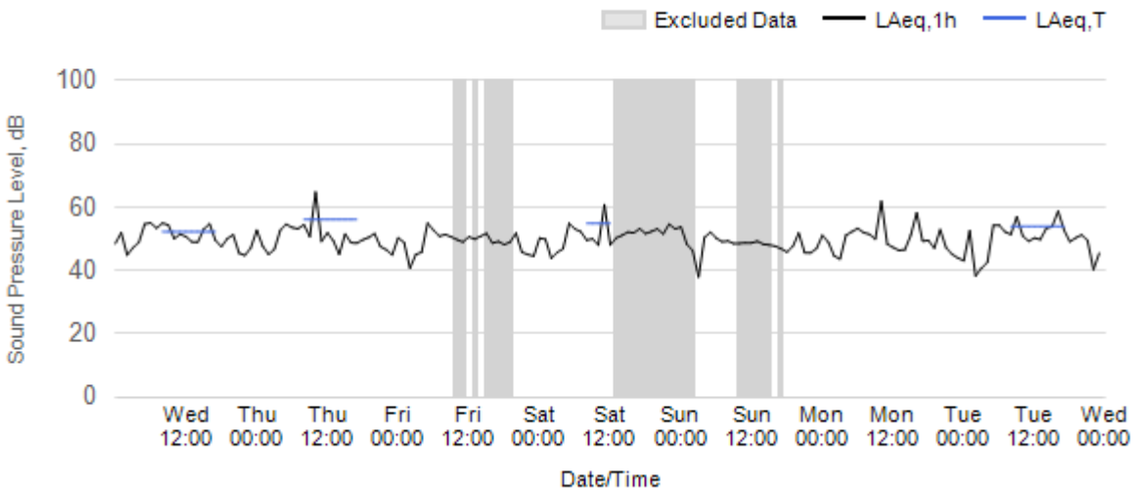


Worksite: DLE - Monitoring Ref: DLE-N2

Worksite: DLE Monitoring Ref: DLE-N2 01 April 2026 to 07 April 2026



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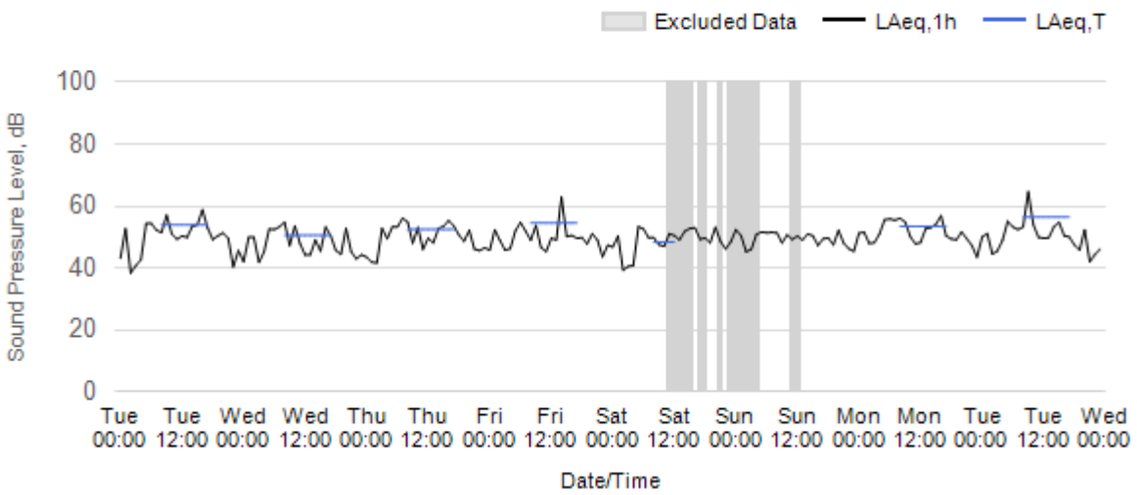

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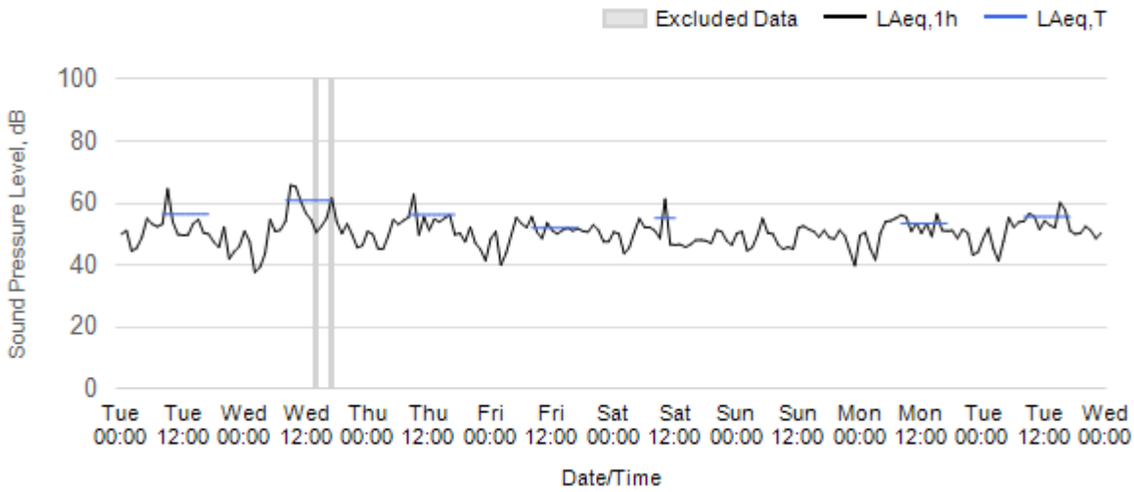

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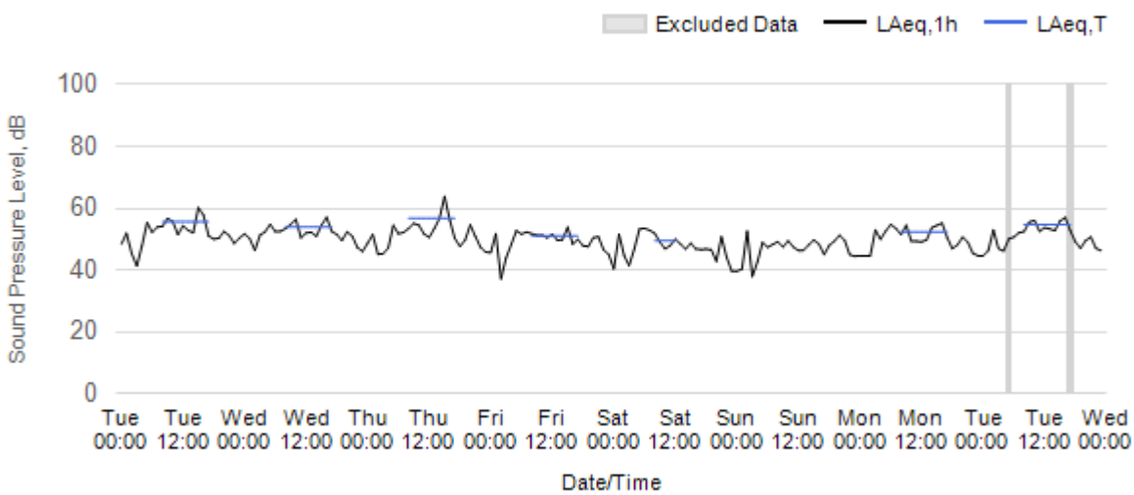

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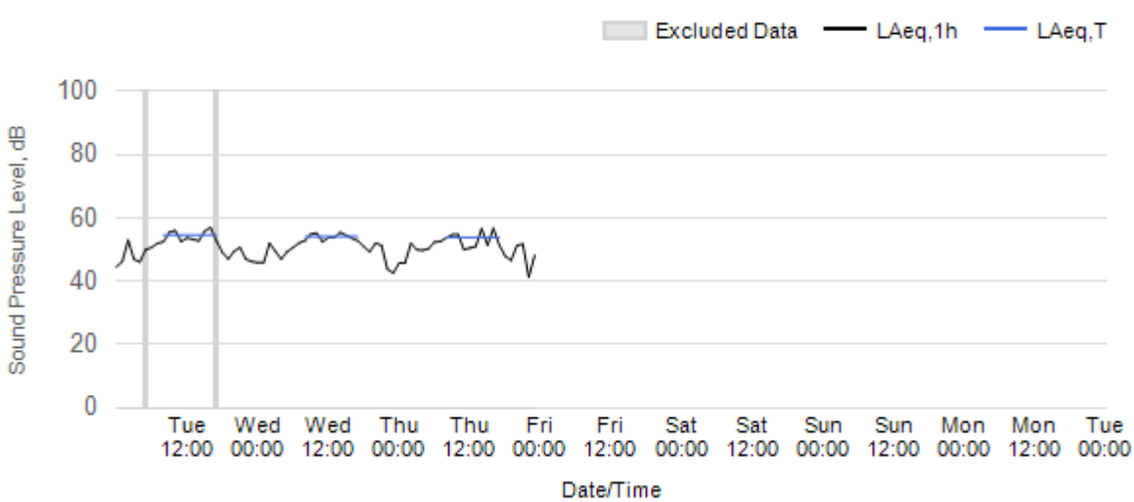
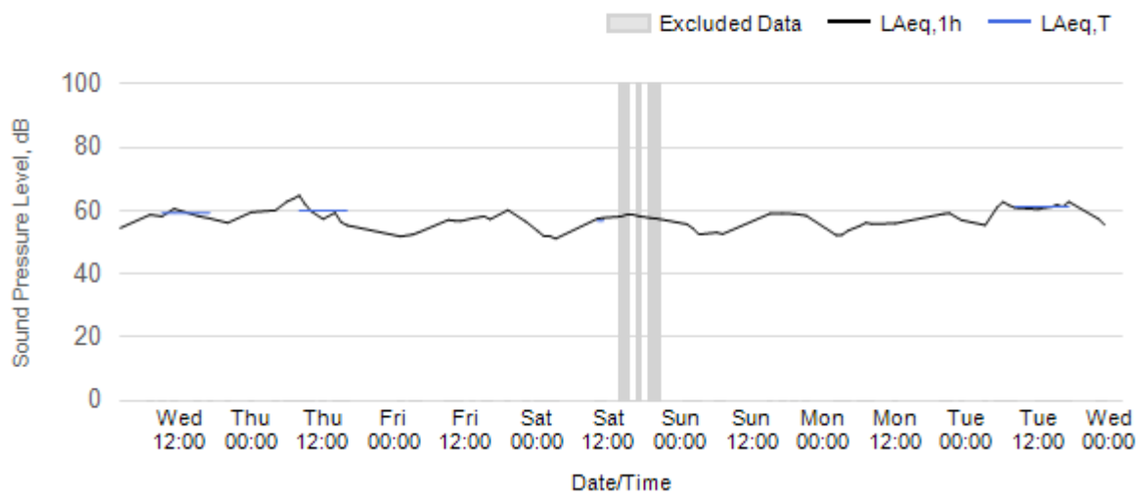


Worksite: CHRU - Monitoring Ref: CHRU-N1

Worksite: CHRU Monitoring Ref: CHRU-N1 01 April 2026 to 07 April 2026



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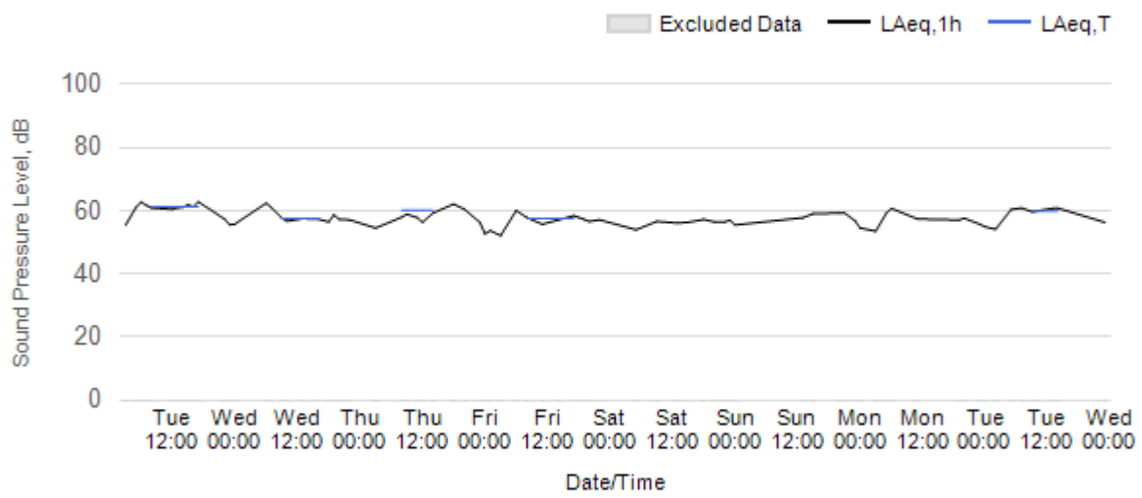

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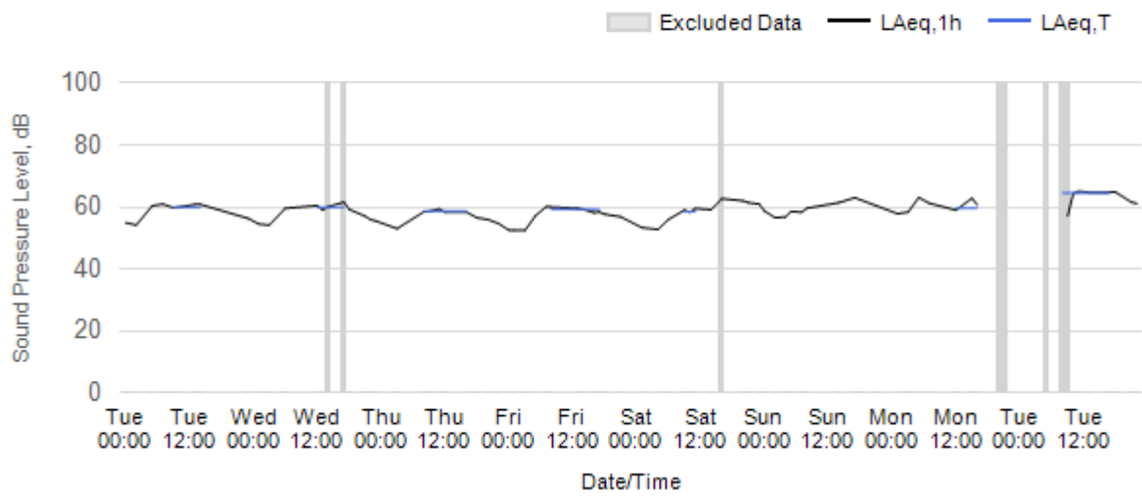
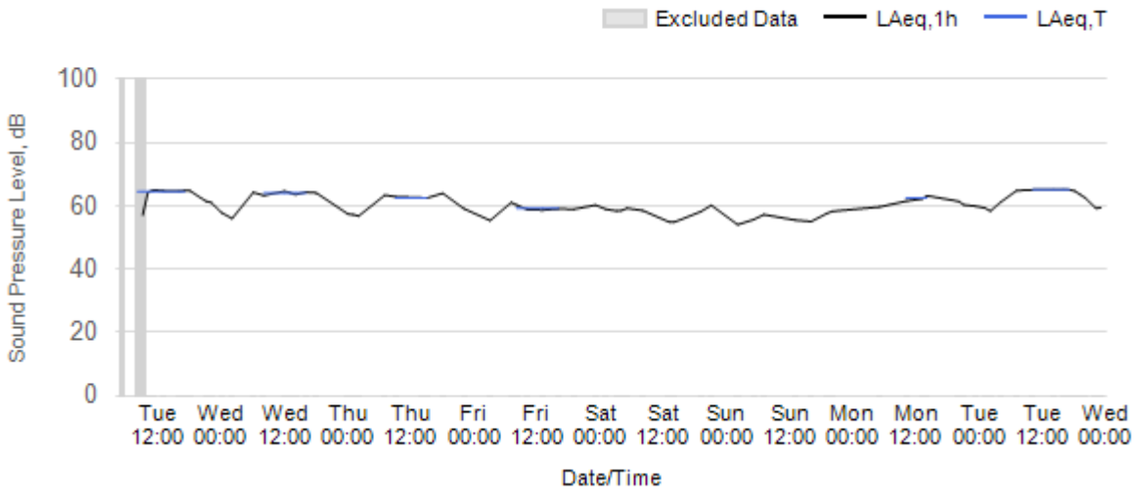


Note: Missing data due to a fault with monitoring equipment.

Worksite: CHRU Monitoring Ref: CHRU-N1 22 April 2026 to 28 April 2026



Note: Missing data due to a fault with monitoring equipment.

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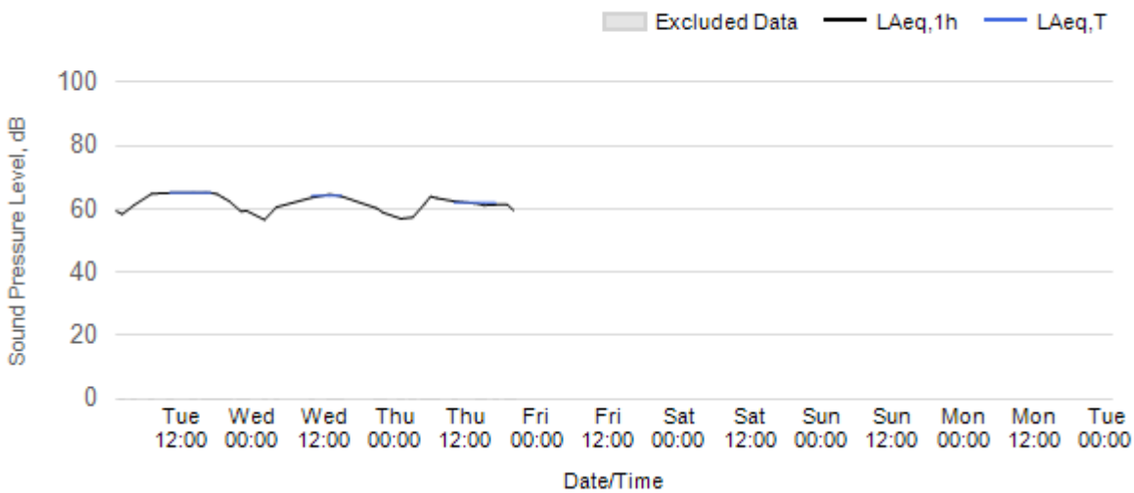

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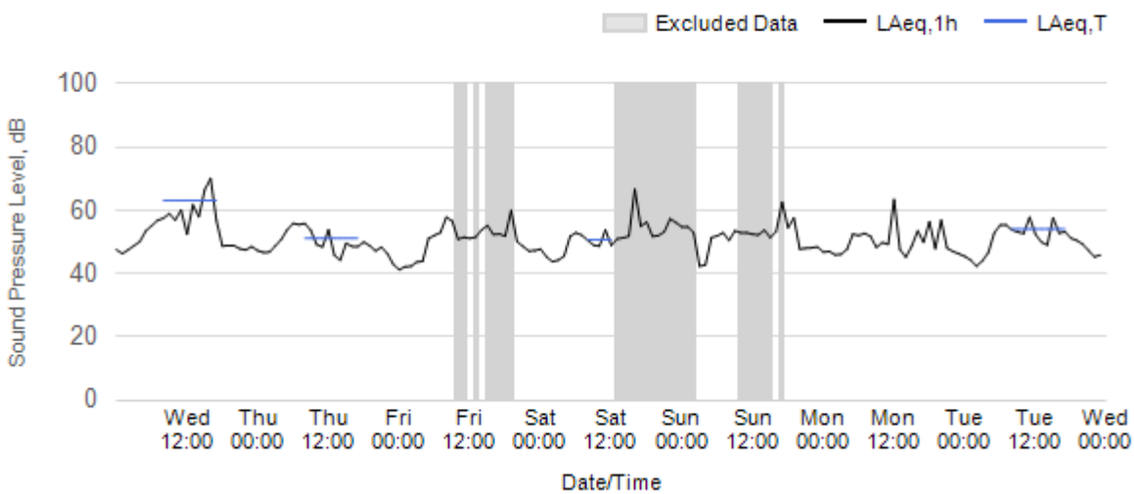
Worksite: DLE Monitoring Ref: DLE-N1 01 April 2026 to 07 April 2026



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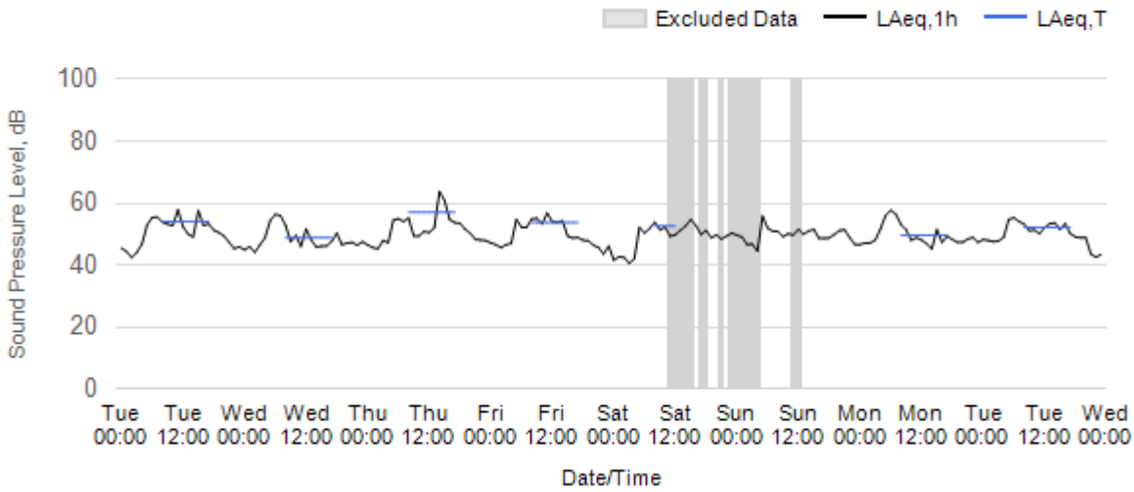

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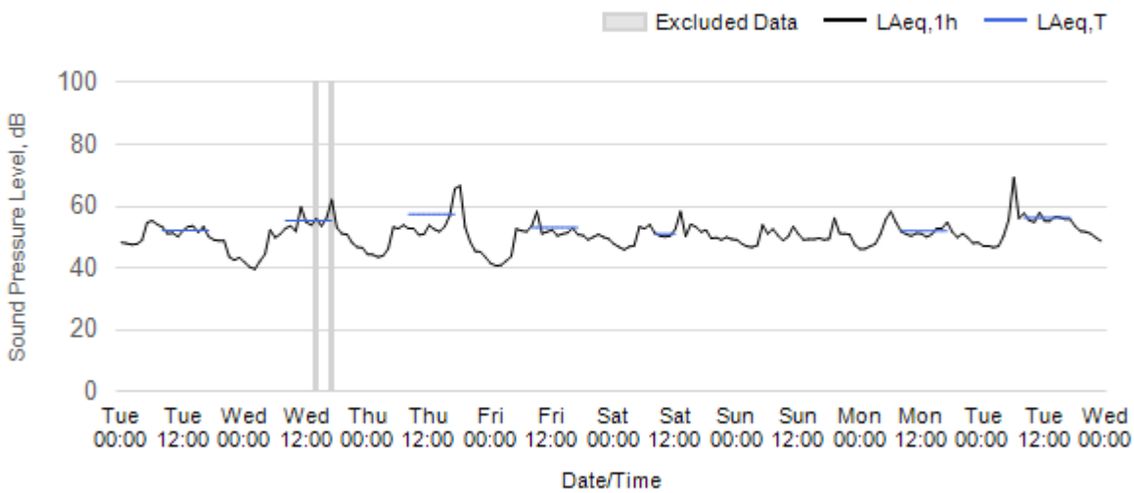

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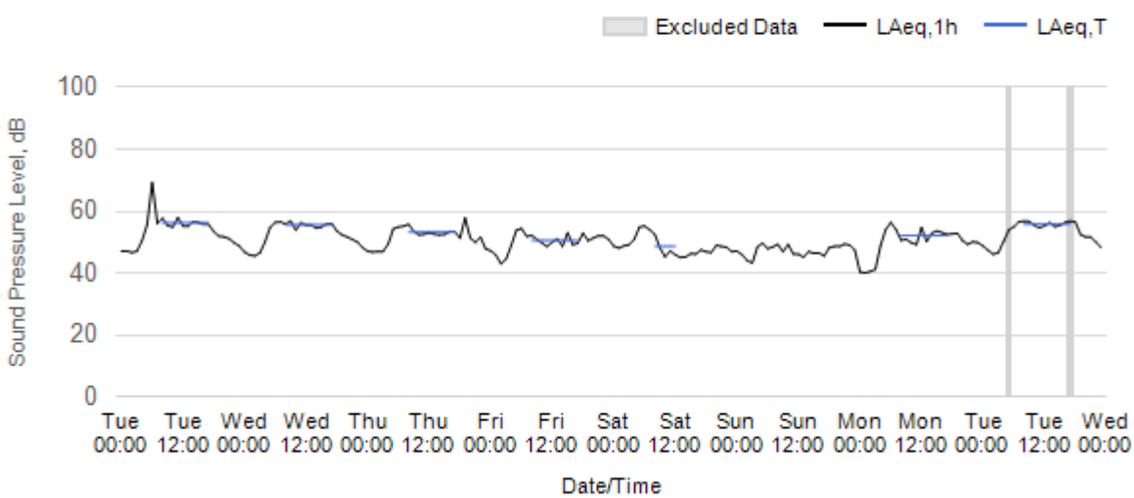

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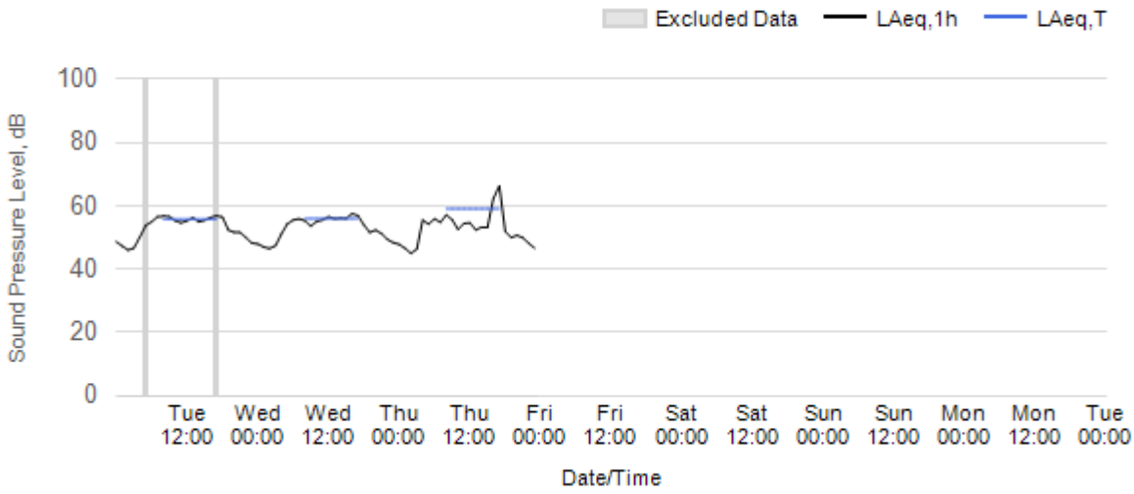

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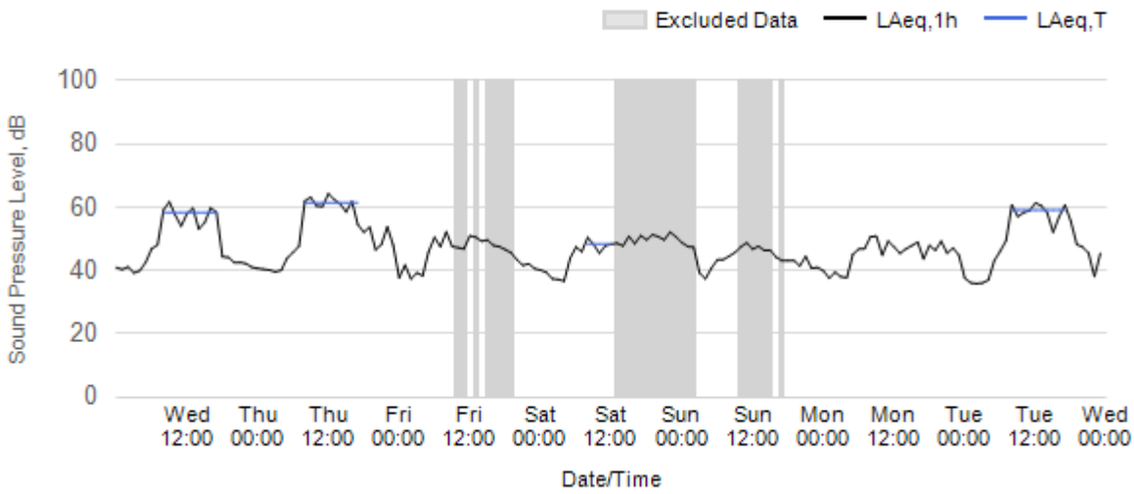
Worksite: PL Monitoring Ref: PL-N2 01 April 2026 to 07 April 2026



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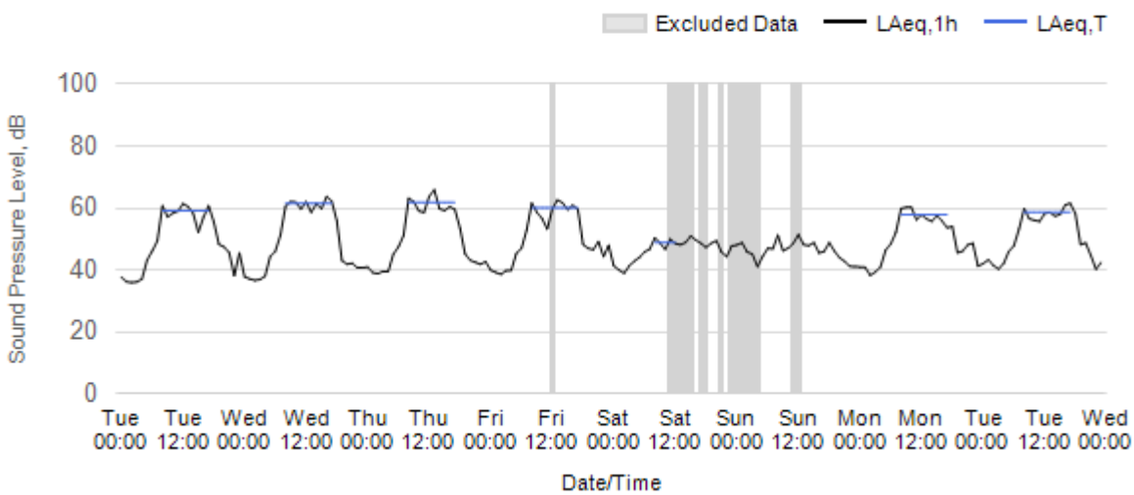

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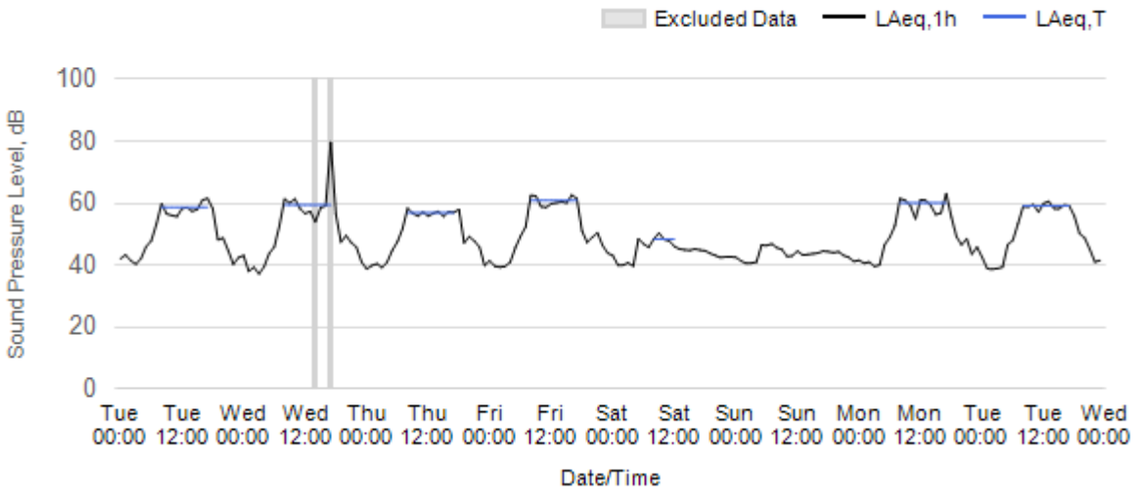
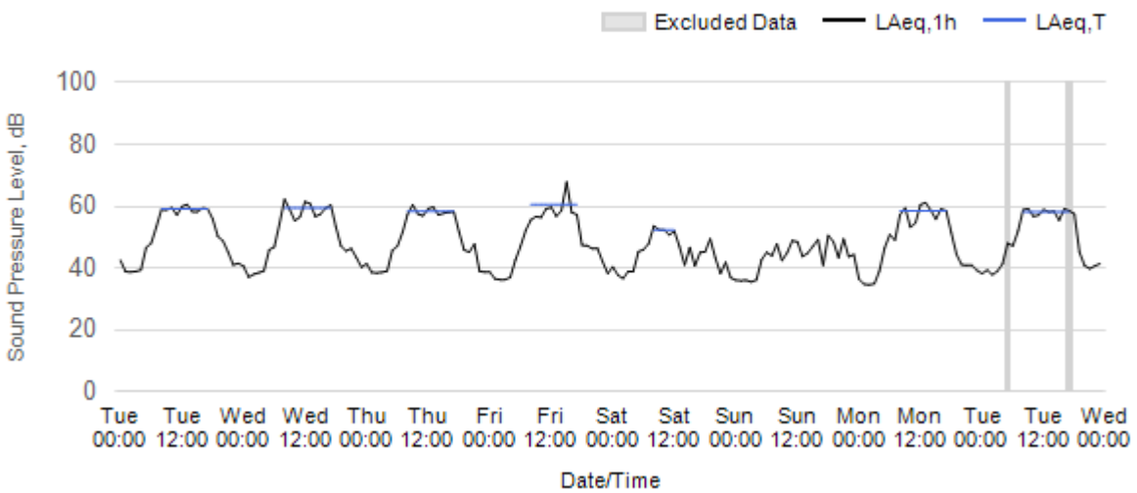


Worksite: PL Monitoring Ref: PL-N2 22 April 2026 to 28 April 2026



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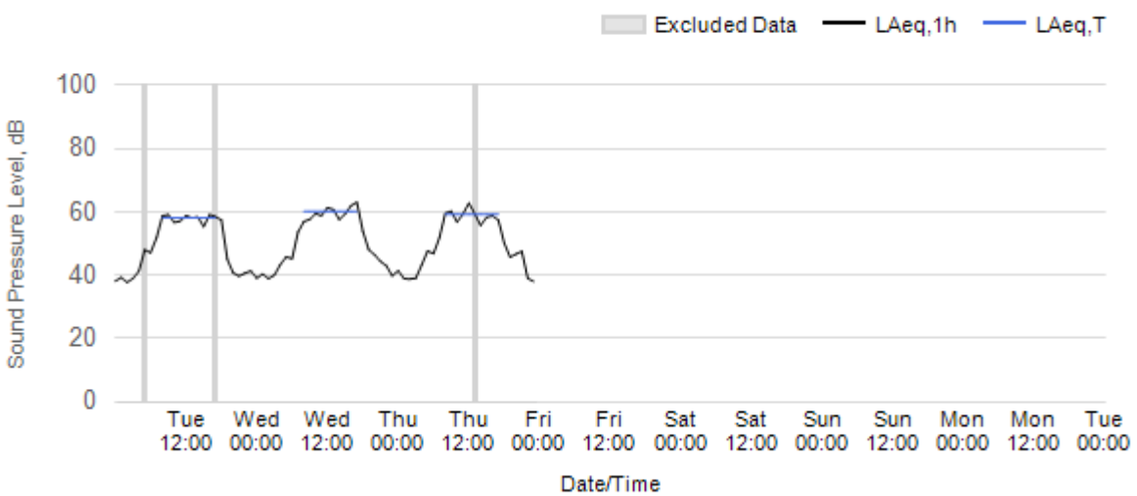

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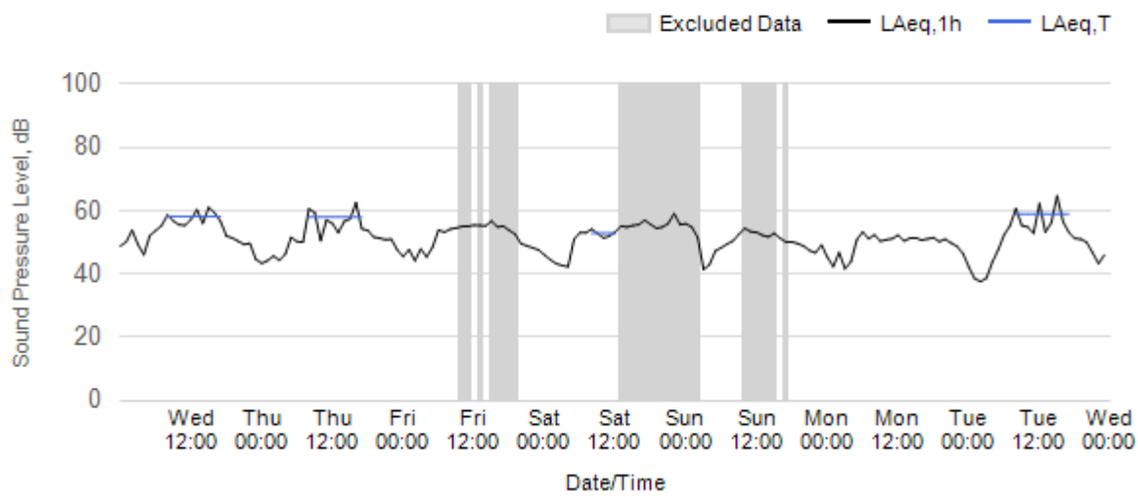
Worksite: A452 Monitoring Ref: A452-N1 01 April 2026 to 07 April 2026



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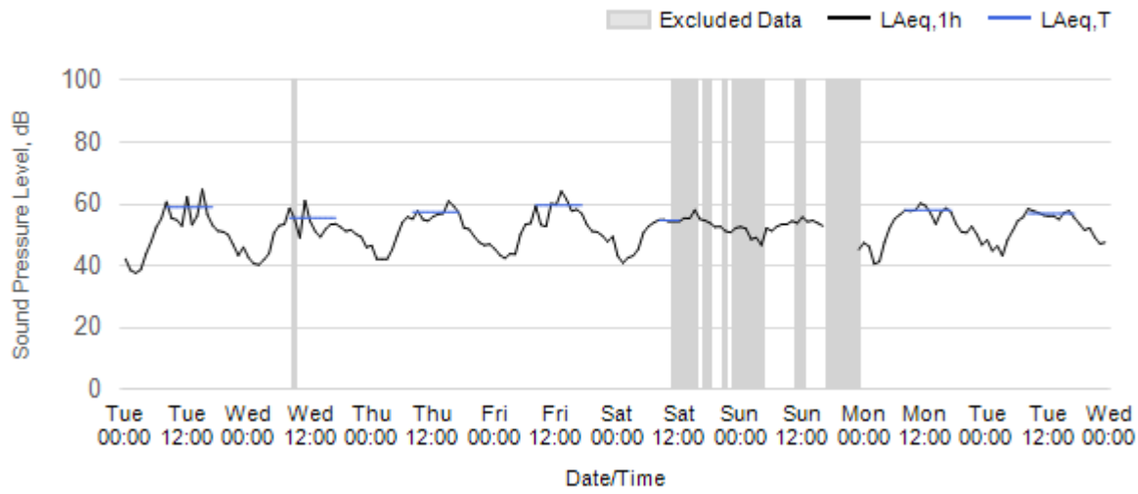

Note: Missing data due to a fault with monitoring equipment.

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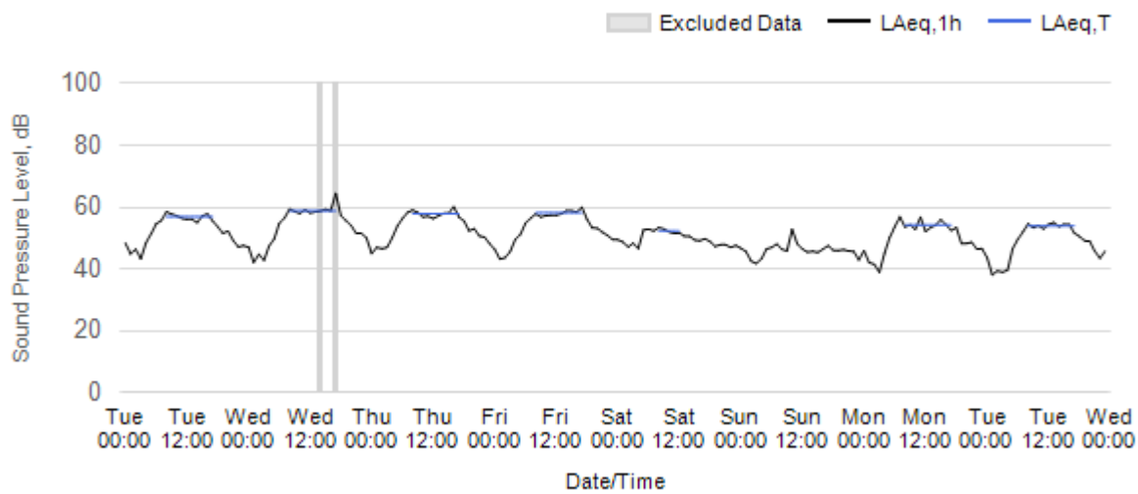

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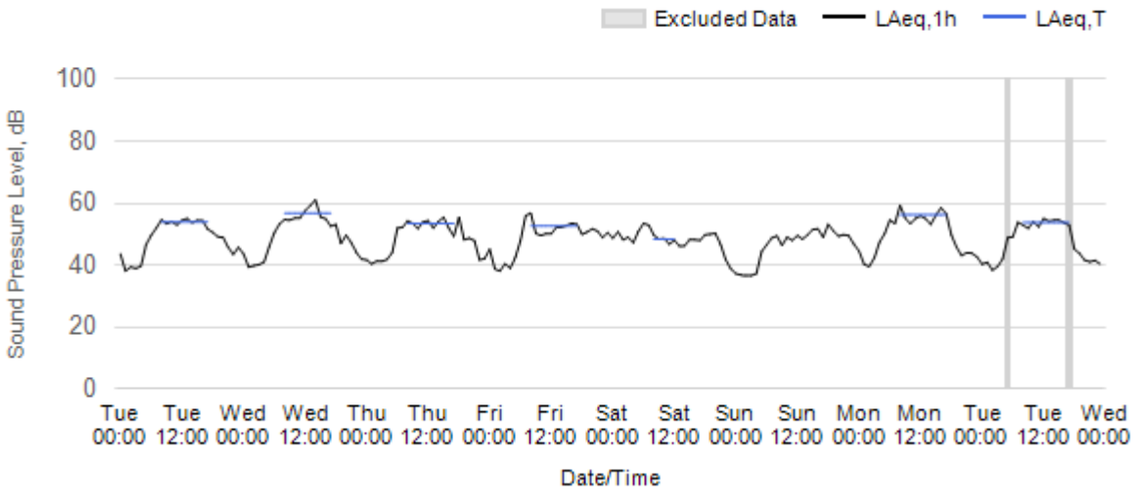

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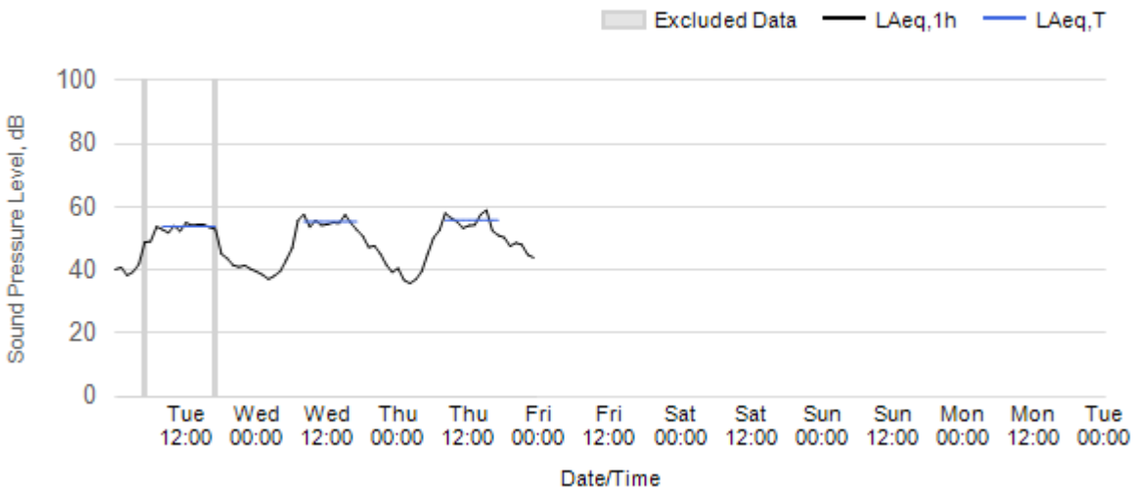
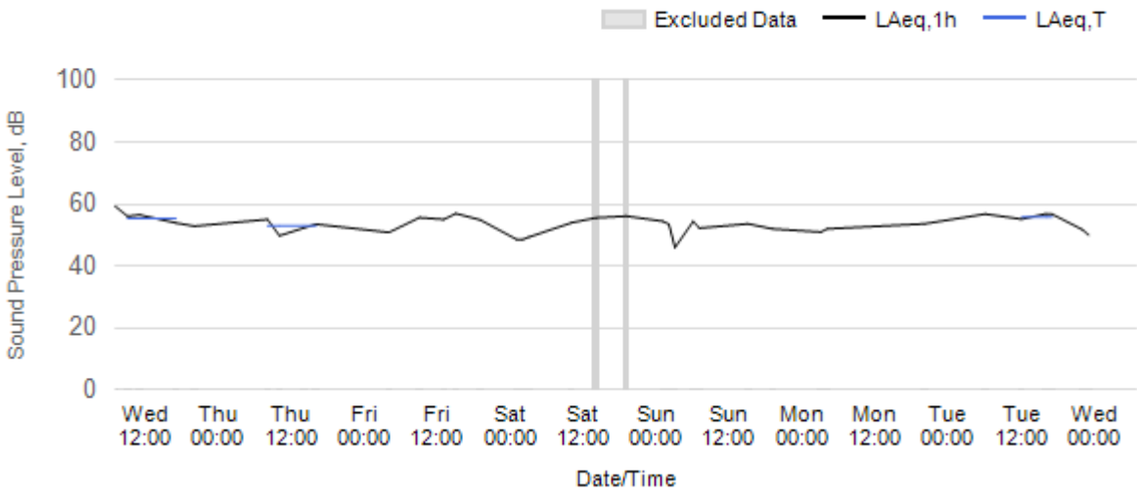


Worksite: BIC - Monitoring Ref: BIC-N1

Worksite: BIC Monitoring Ref: BIC-N1 01 April 2026 to 07 April 2026



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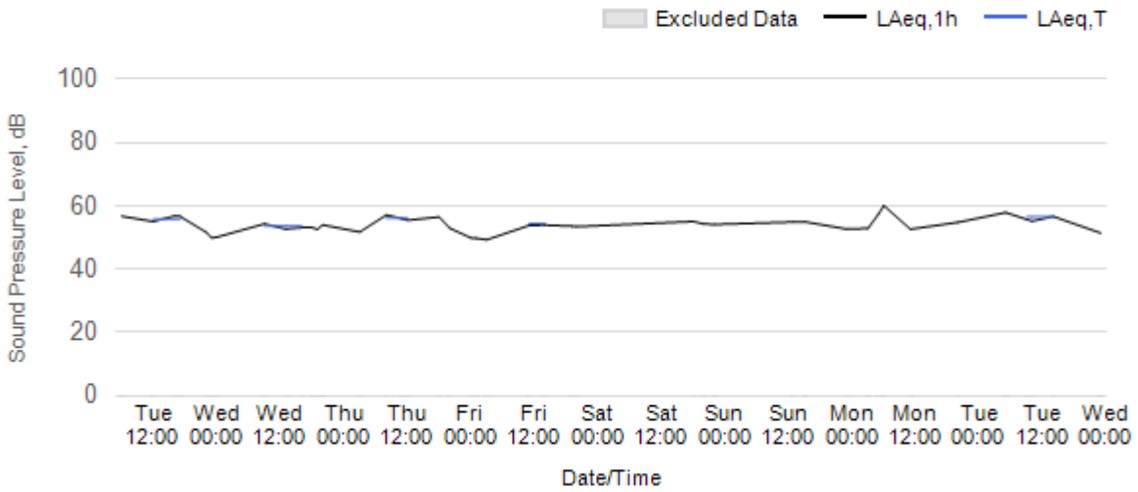

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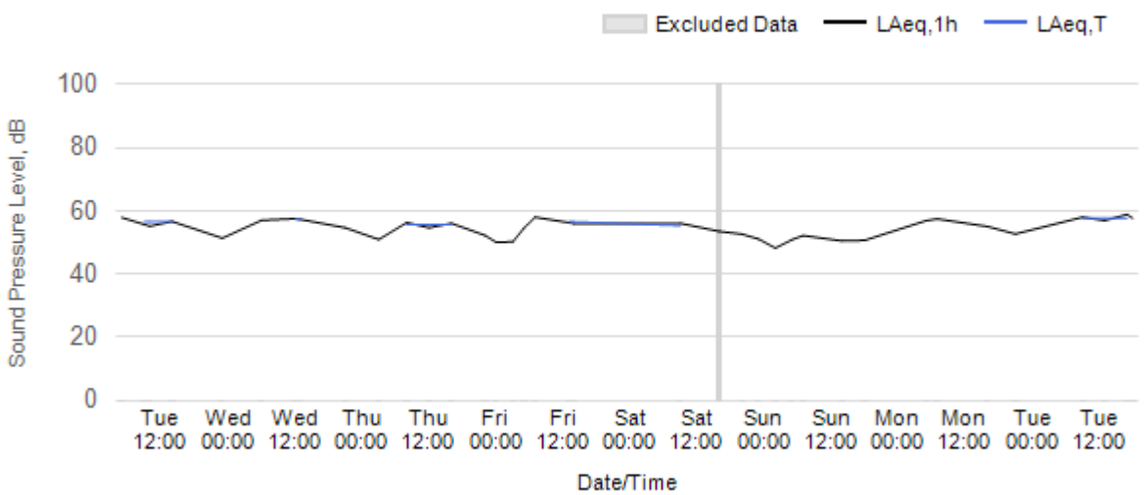
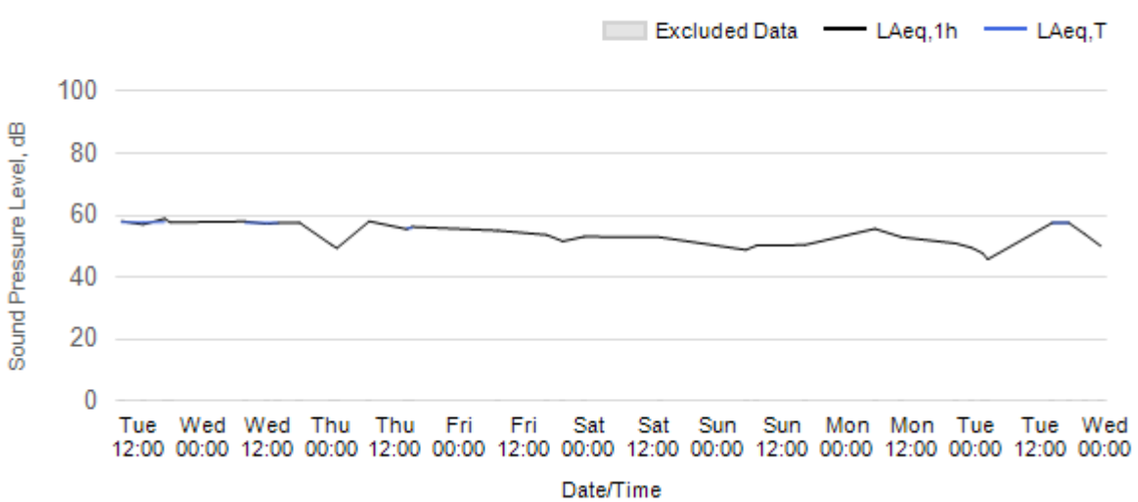
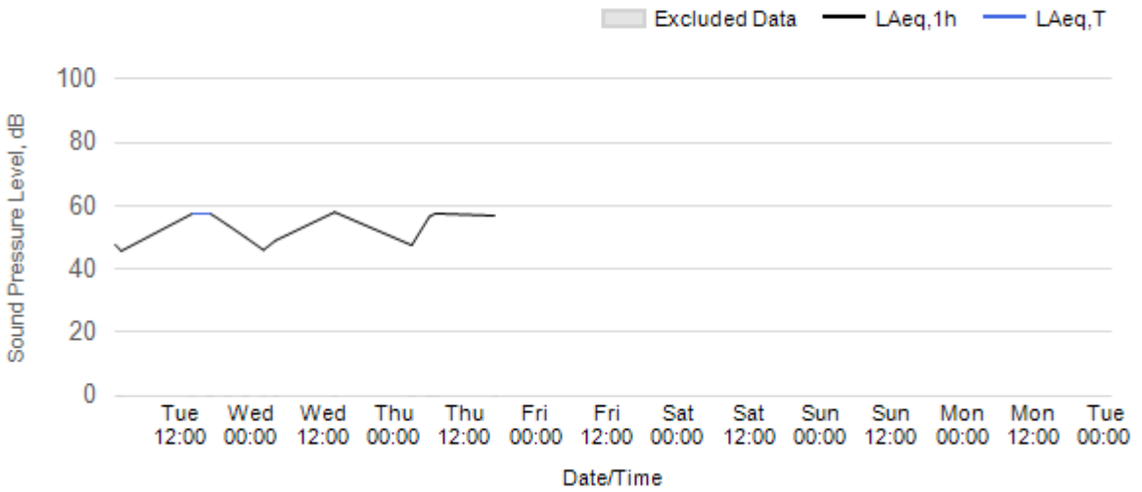


Worksite: BIC Monitoring Ref: BIC-N1 22 April 2026 to 28 April 2026



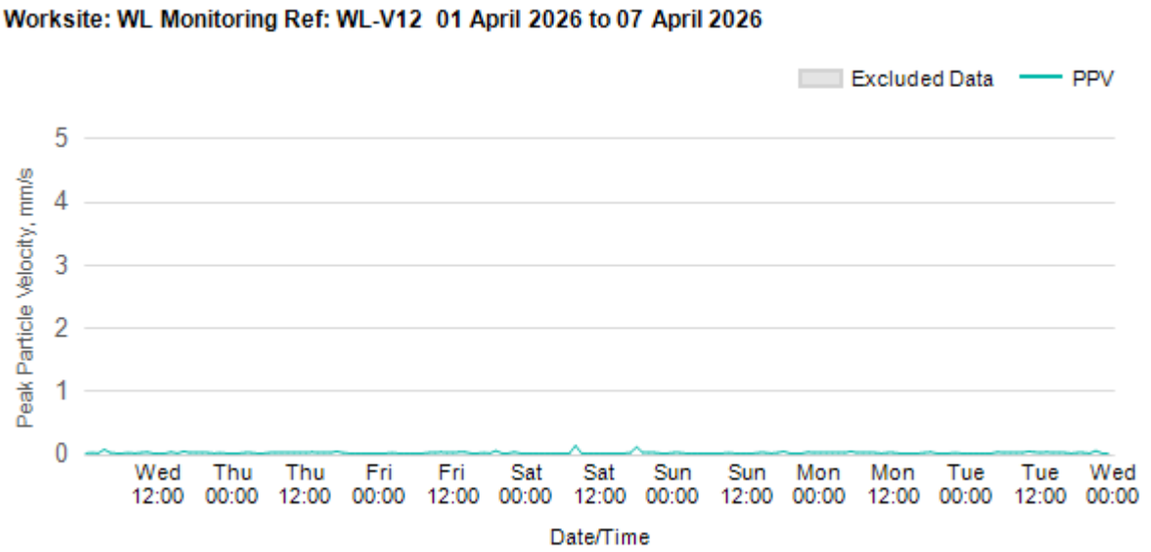
Worksite: BIC Monitoring Ref: BIC-N1 29 April 2026 to 5 May 2026

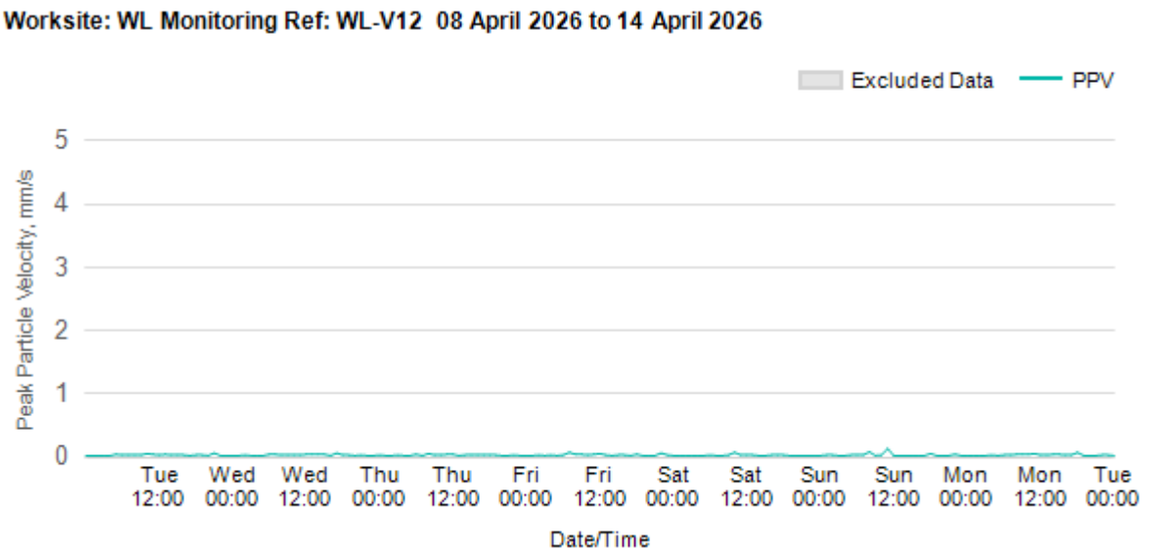


Vibration

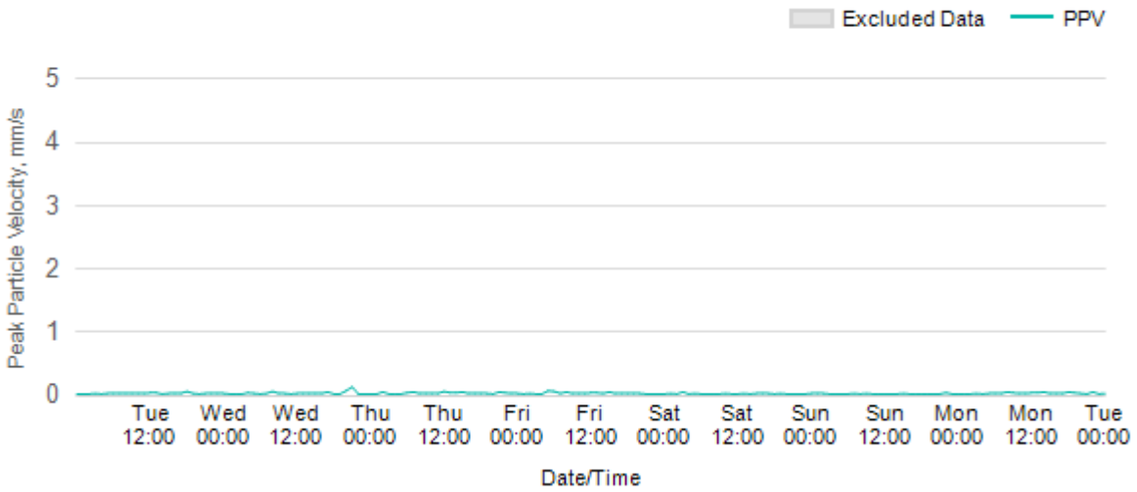
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the resultant PPV due to vibration components on three orthogonal axis x, y and z. Where high values of PPV were caused by local interference with the vibration monitor, which are not representative of HS2 construction works, these values have been greyed out in the following charts and have been excluded to calculate values in Table 4 of the main report.

Worksite: WL - Monitoring Ref: WL-V12

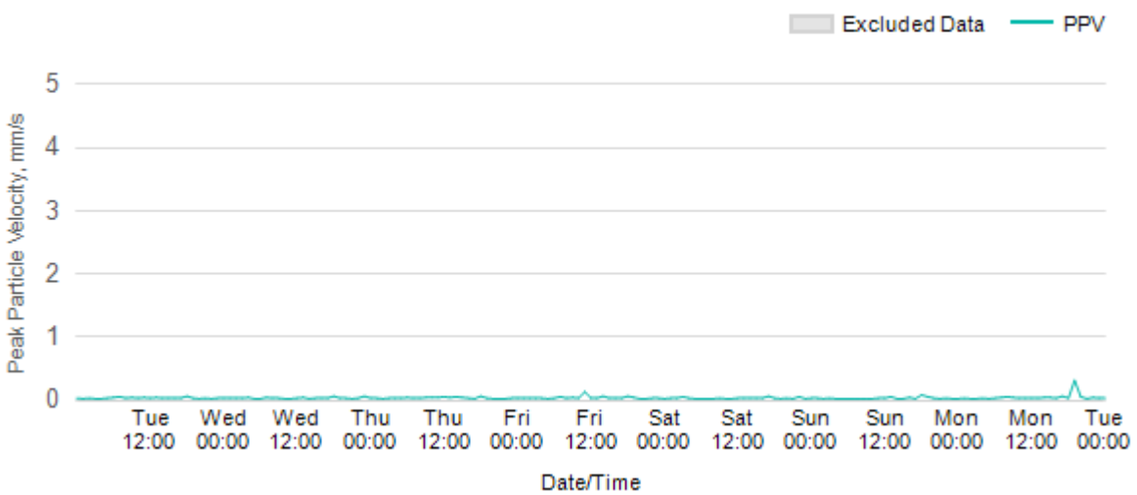




Worksite: WL Monitoring Ref: WL-V12 15 April 2026 to 21 April 2026



Worksite: WL Monitoring Ref: WL-V12 22 April 2026 to 28 April 2026



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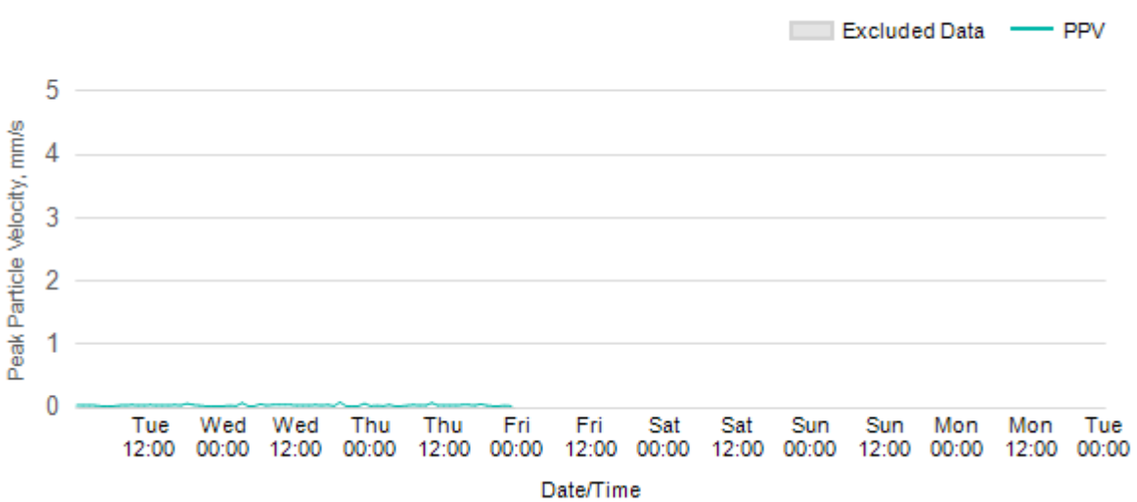
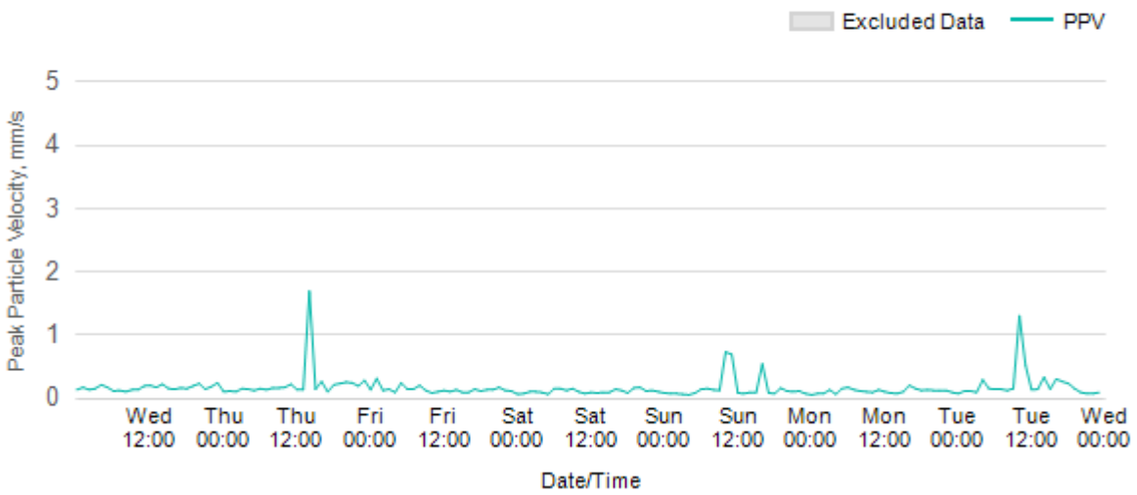
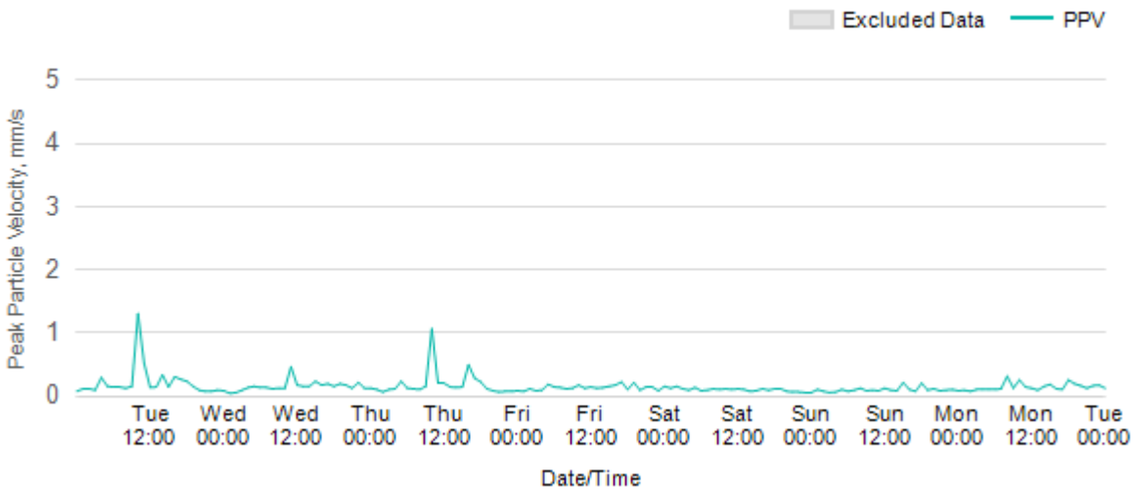


Worksite: CHRU - Monitoring Ref: CHRU-V1

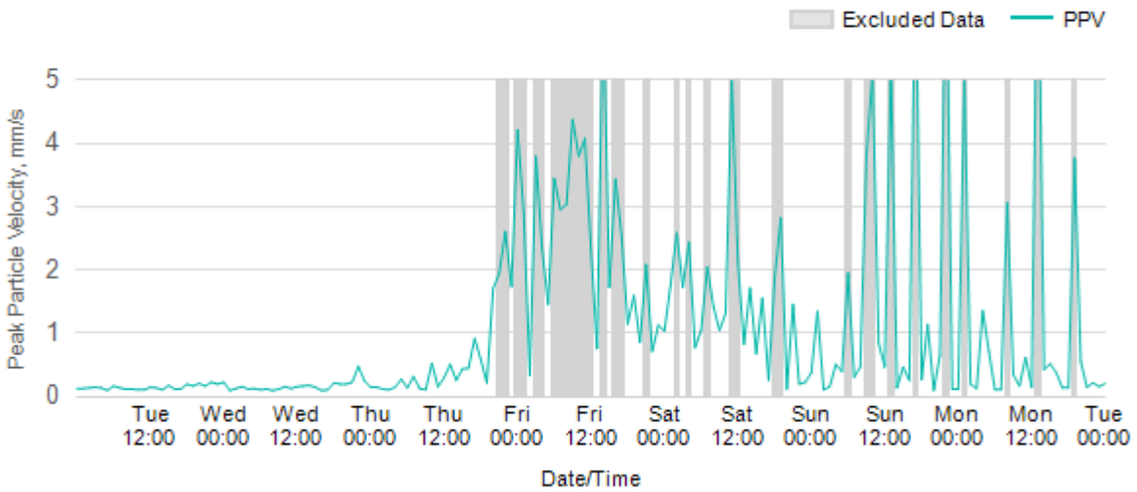
Worksite: CHRU Monitoring Ref: CHRU-V1 01 April 2026 to 07 April 2026



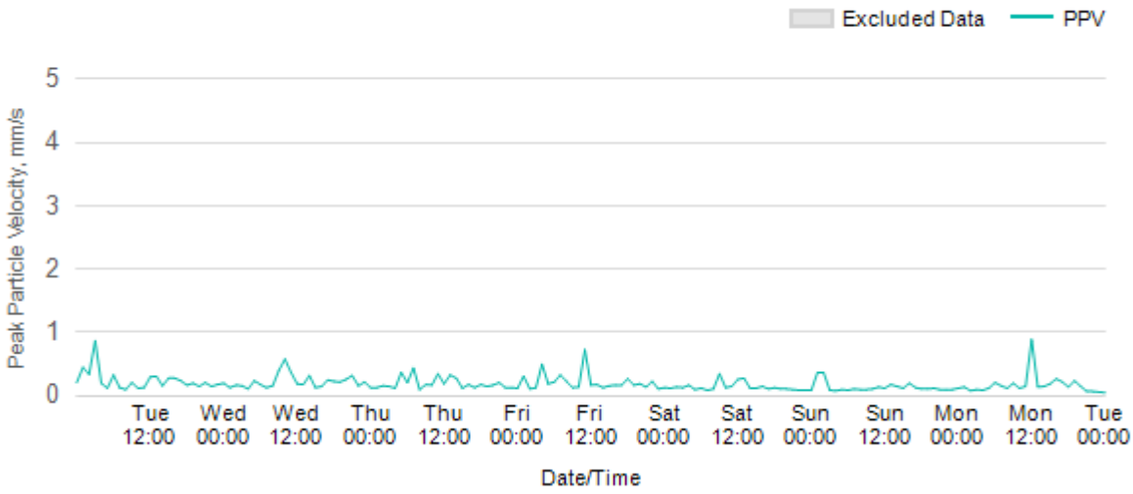
Worksite: CHRU Monitoring Ref: CHRU-V1 08 April 2026 to 14 April 2026



Worksite: CHRU Monitoring Ref: CHRU-V1 15 April 2026 to 21 April 2026



Worksite: CHRU Monitoring Ref: CHRU-V1 22 April 2026 to 28 April 2026



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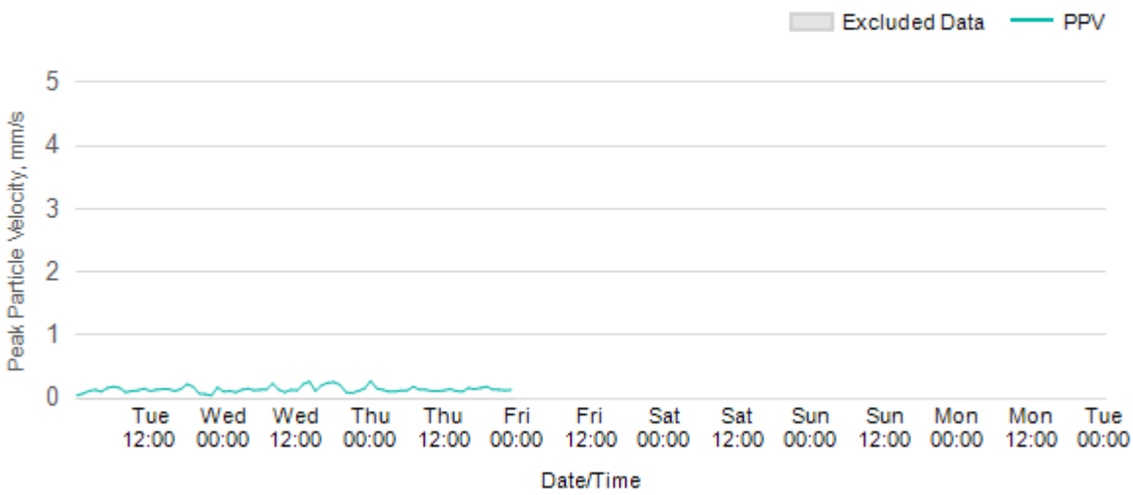
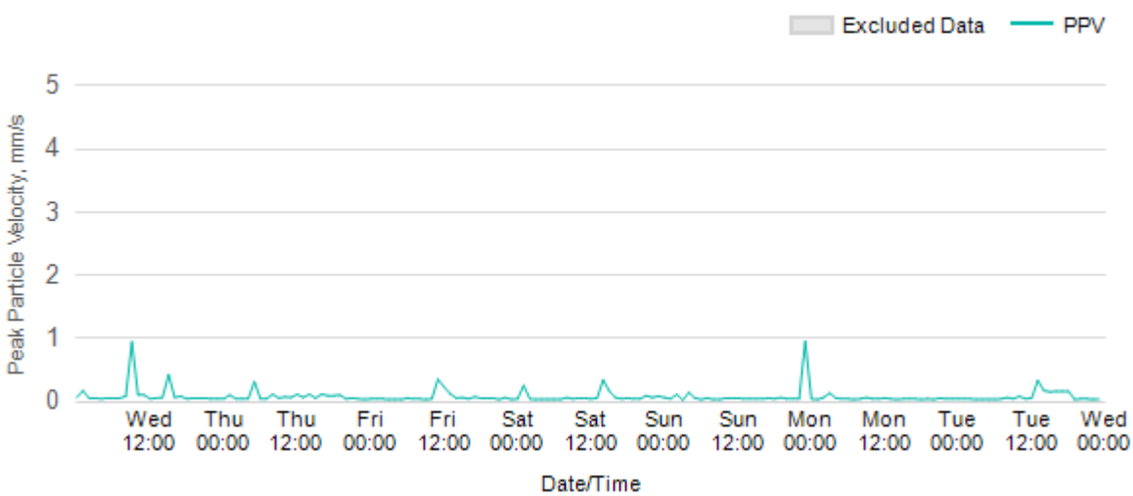


Worksite: PL - Monitoring Ref: PL-V3

Worksite: PL Monitoring Ref: PL-V3 01 April 2026 to 07 April 2026



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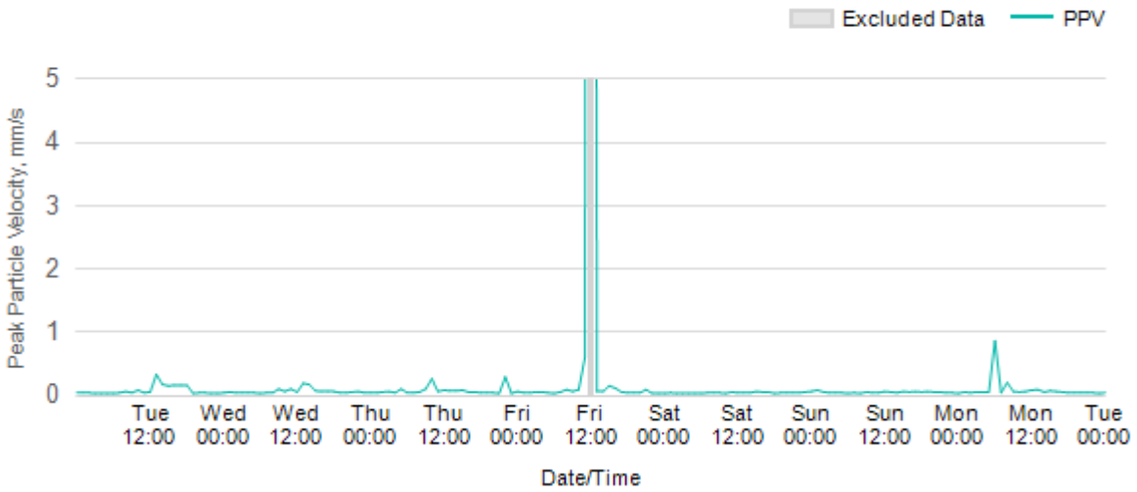

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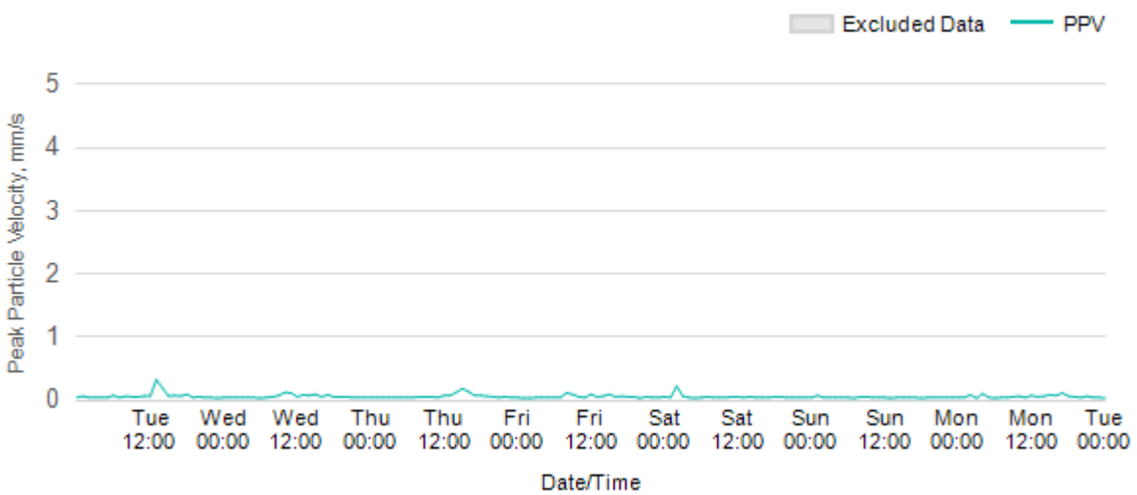

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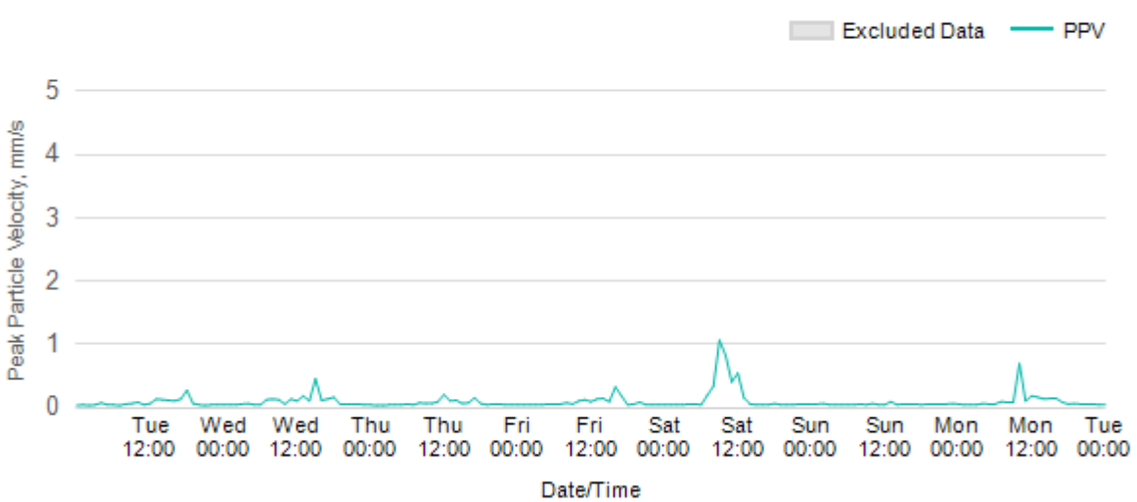

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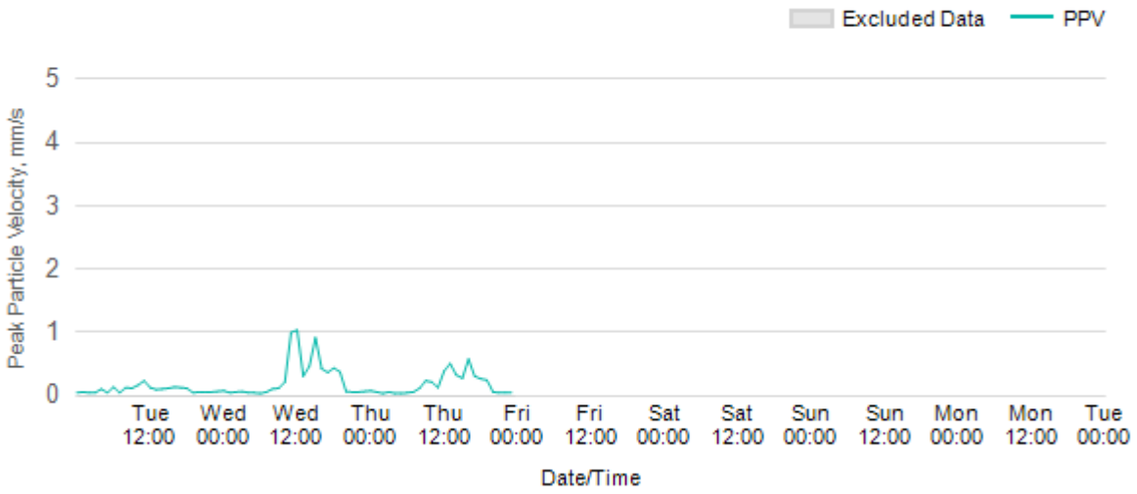
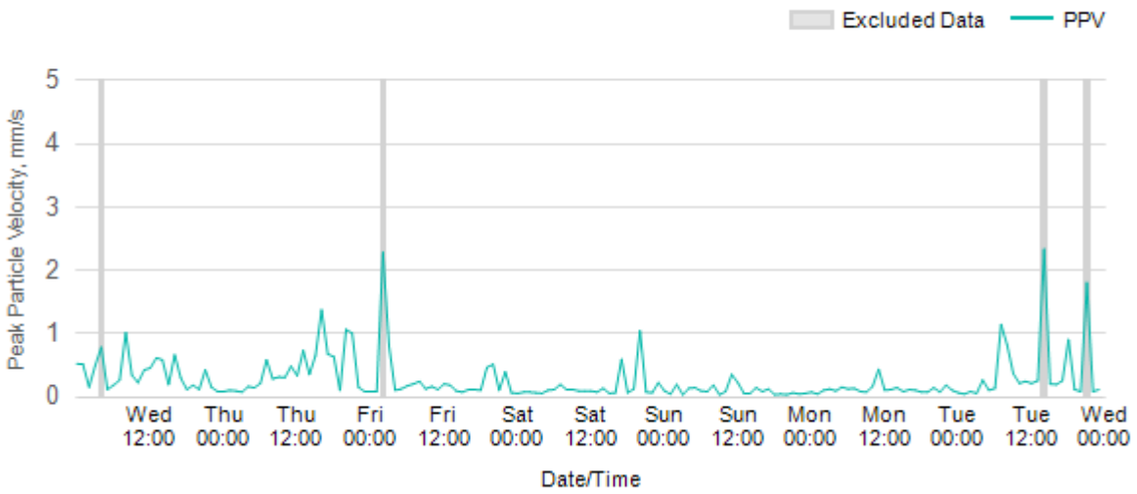


Worksite: PL - Monitoring Ref: PL-V4

Worksite: PL Monitoring Ref: PL-V4 01 April 2026 to 07 April 2026



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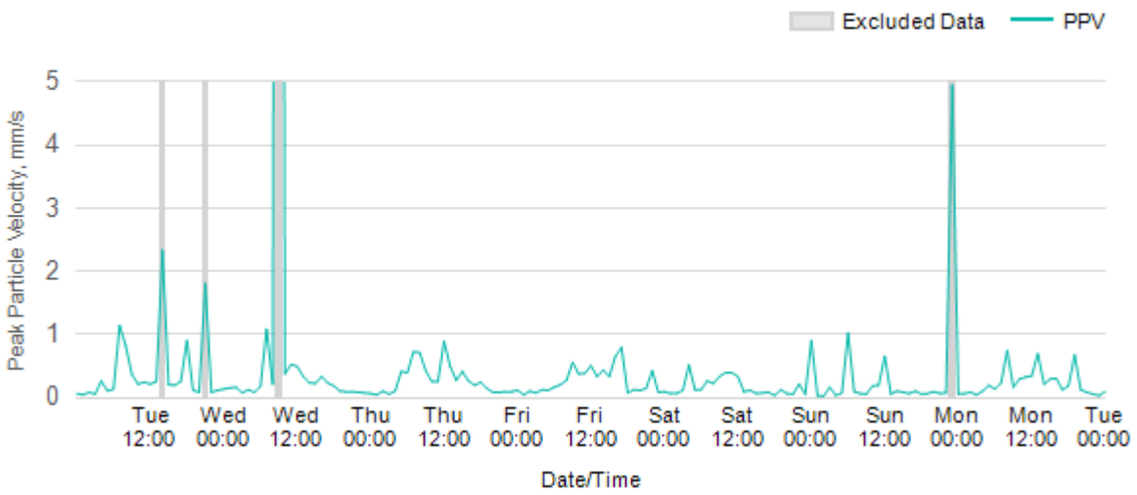

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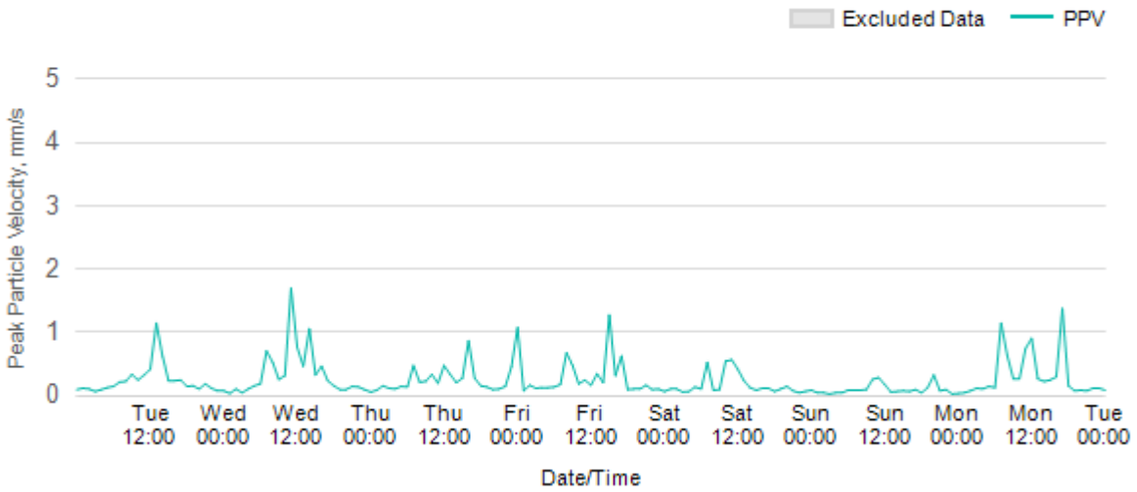

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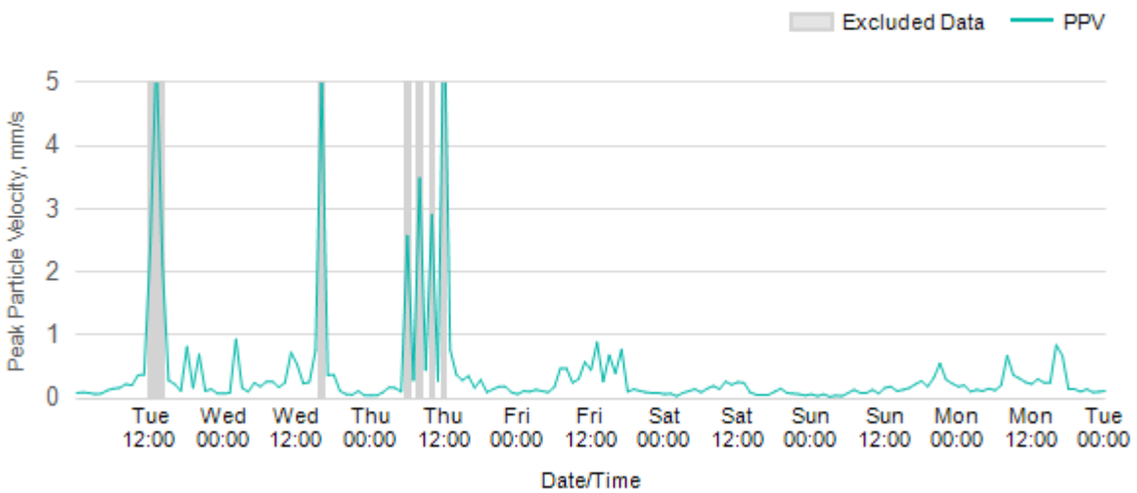

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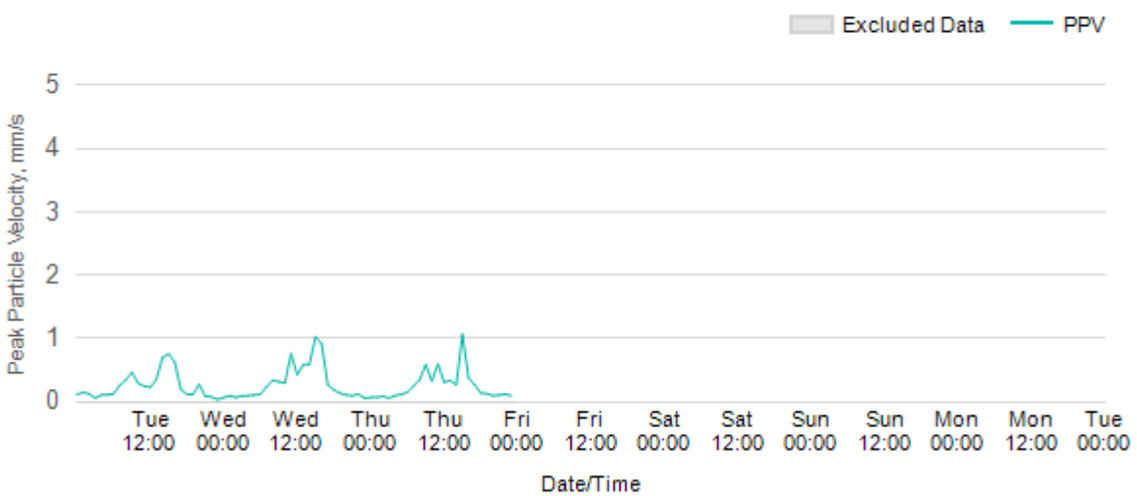
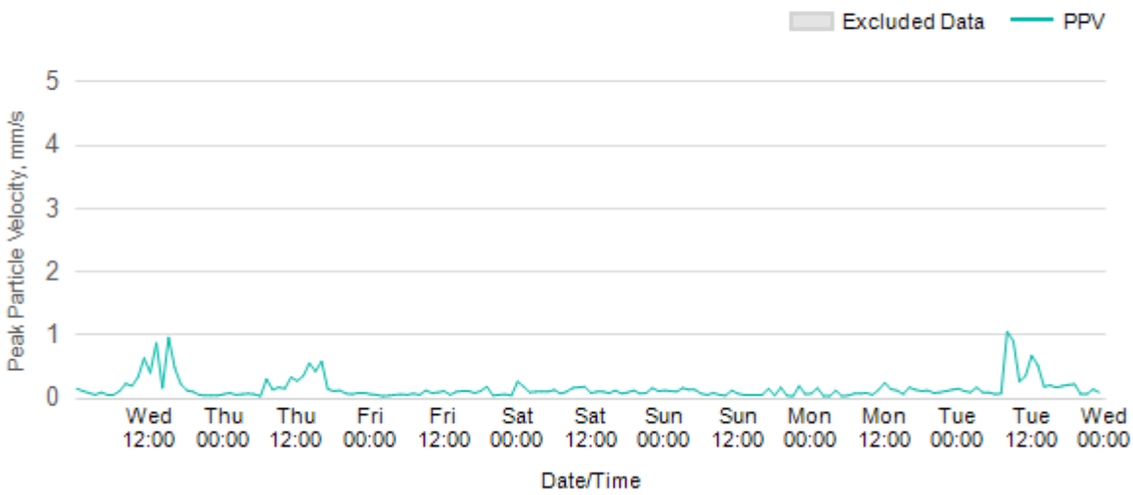


Worksite: WLOS - Monitoring Ref: WLOS-V1

Worksite: WLOS Monitoring Ref: WLOS-V1 01 April 2026 to 07 April 2026



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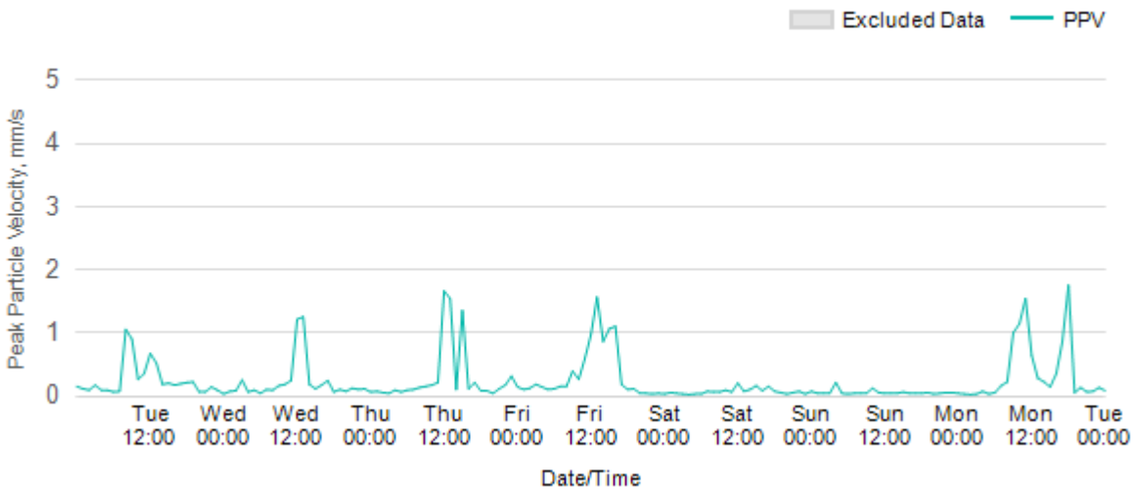

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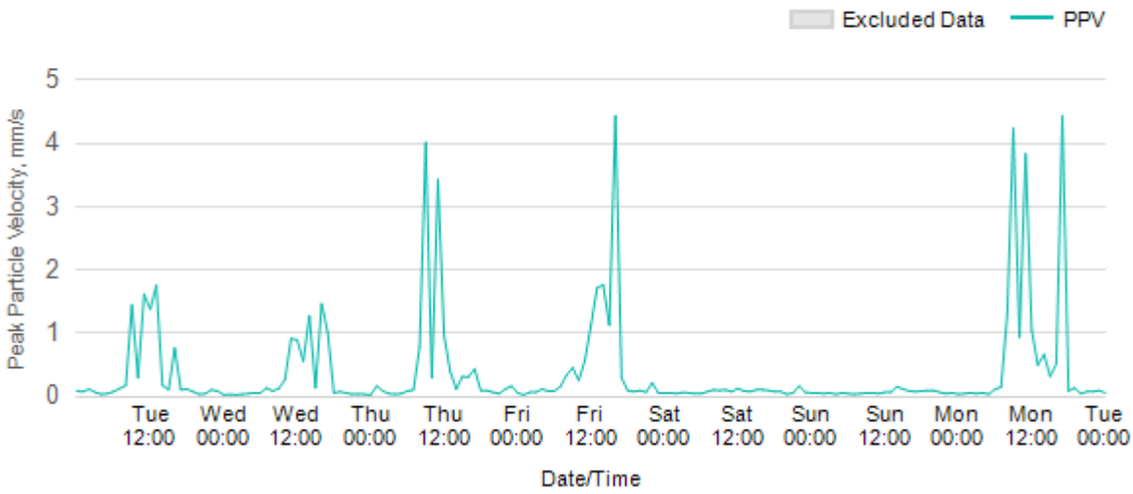

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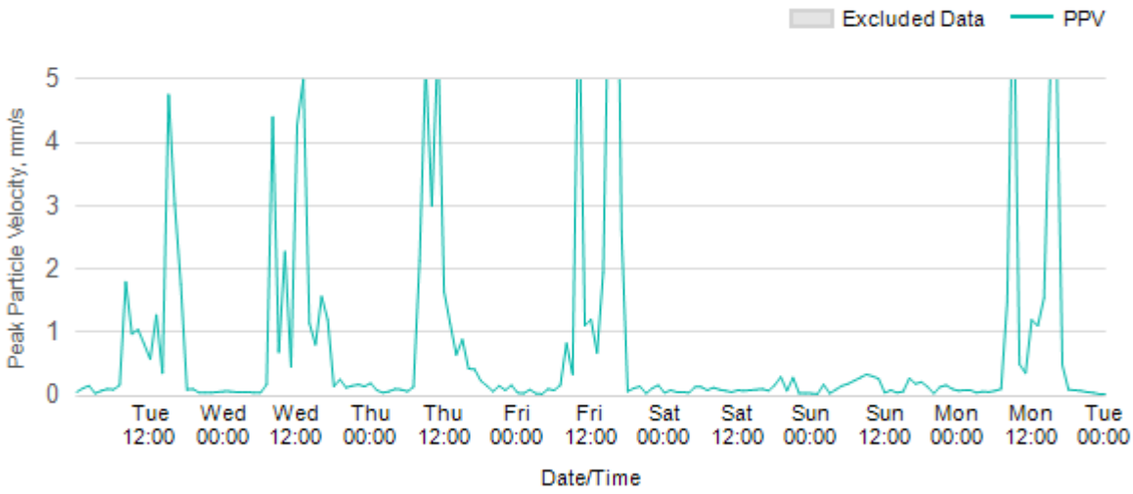

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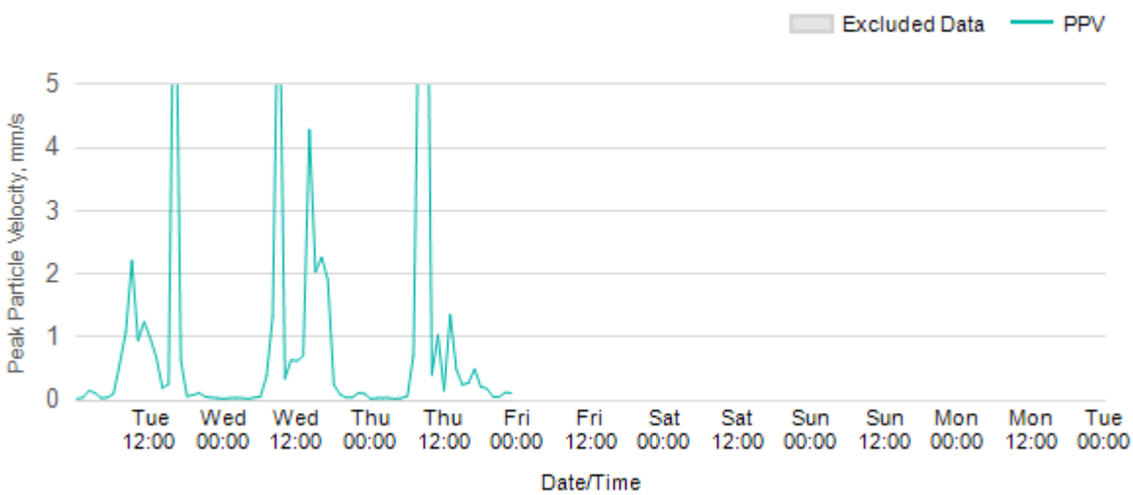
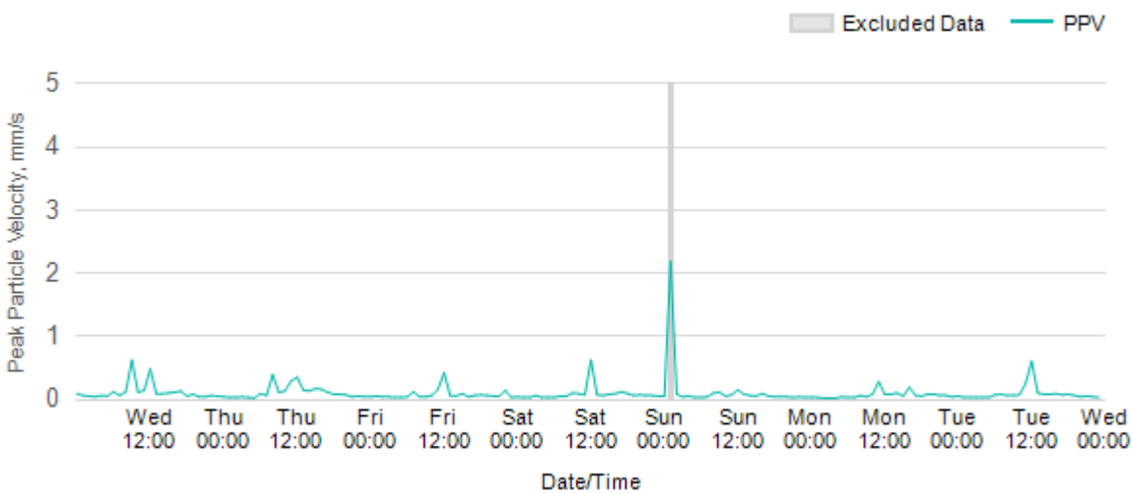


Worksite: WL - Monitoring Ref: WL-V2

Worksite: WL Monitoring Ref: WL-V2 01 April 2026 to 07 April 2026



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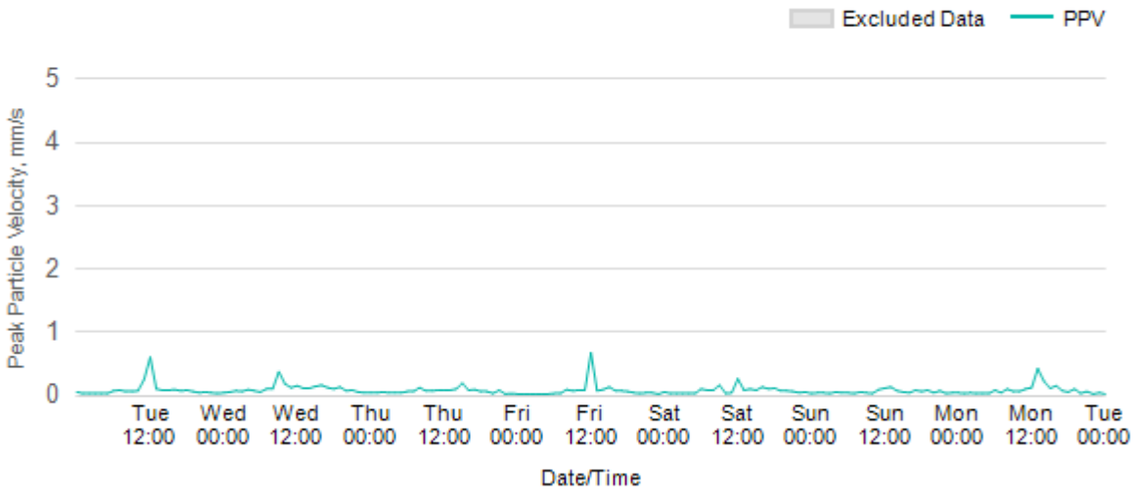

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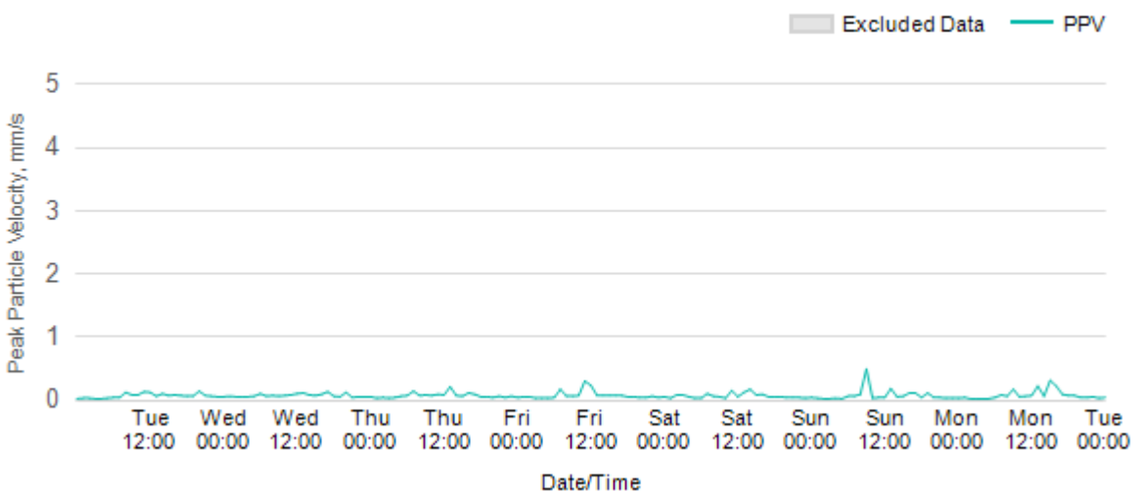
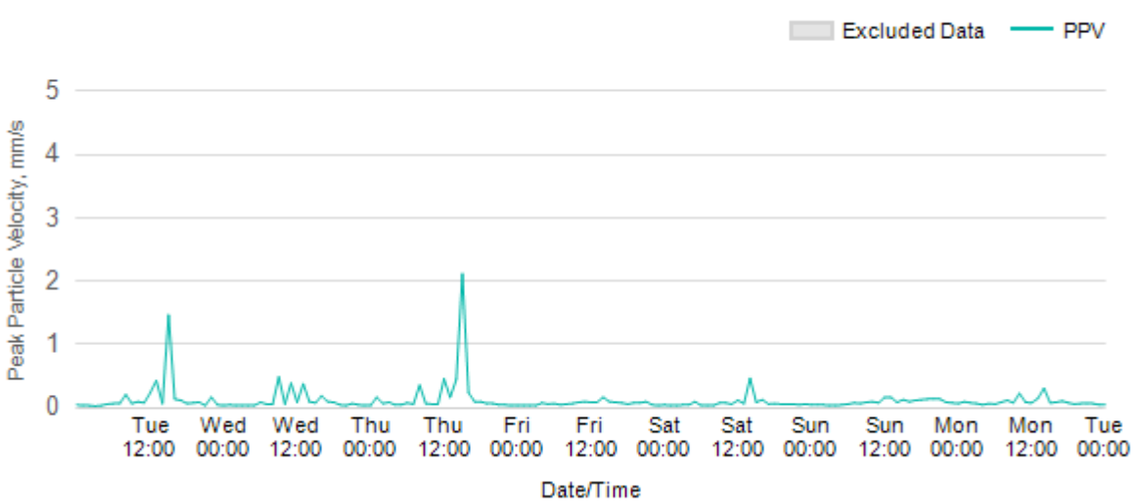


Worksite: WL Monitoring Ref: WL-V2 22 April 2026 to 28 April 2026



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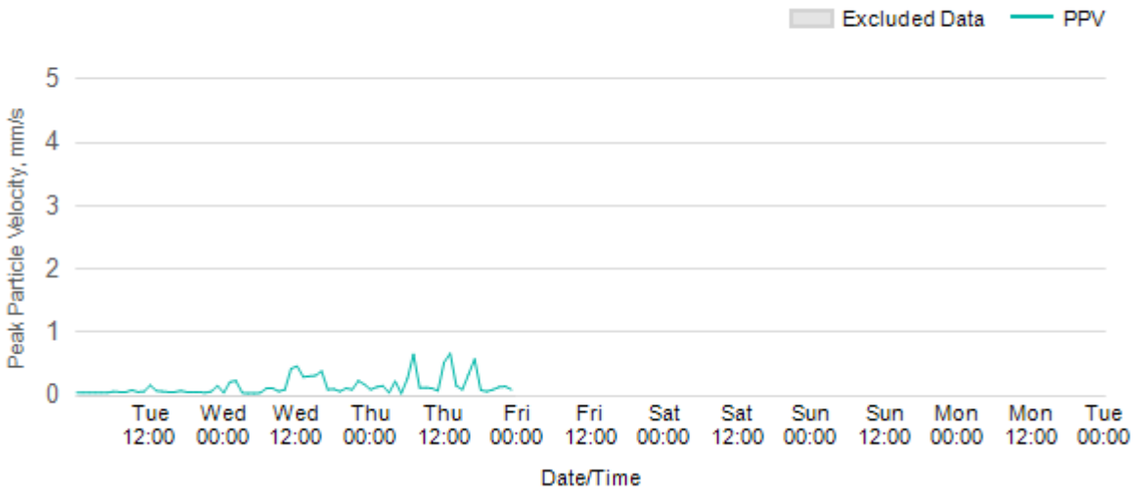
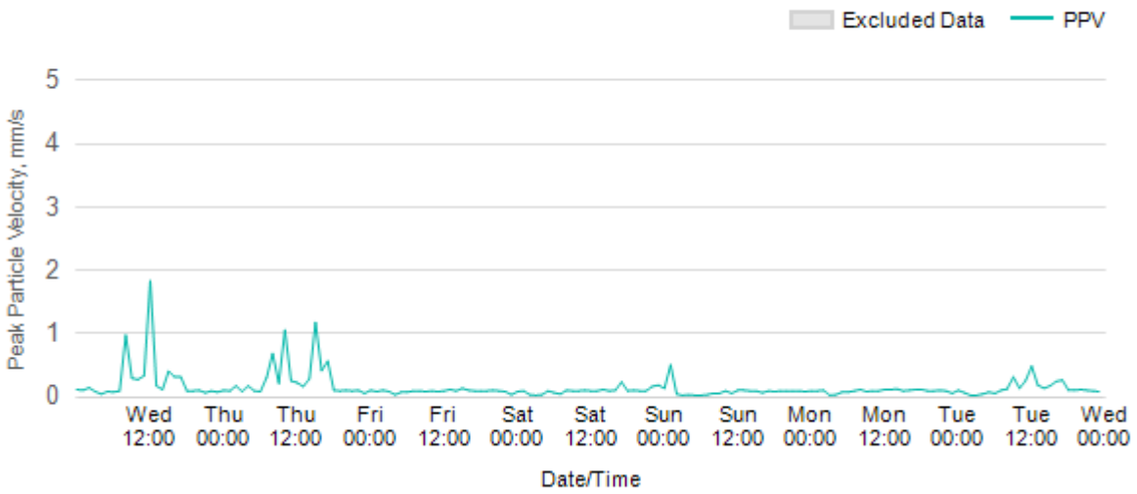
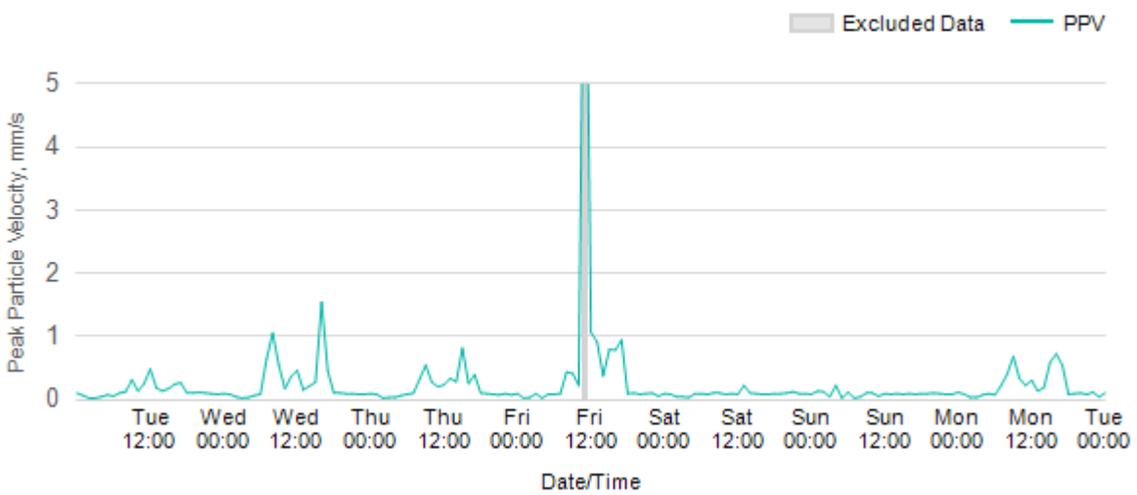


Worksite: BCV - Monitoring Ref: BCV-V6

Worksite: BCV Monitoring Ref: BCV-V6 01 April 2026 to 07 April 2026



Worksite: BCV Monitoring Ref: BCV-V6 08 April 2026 to 14 April 2026



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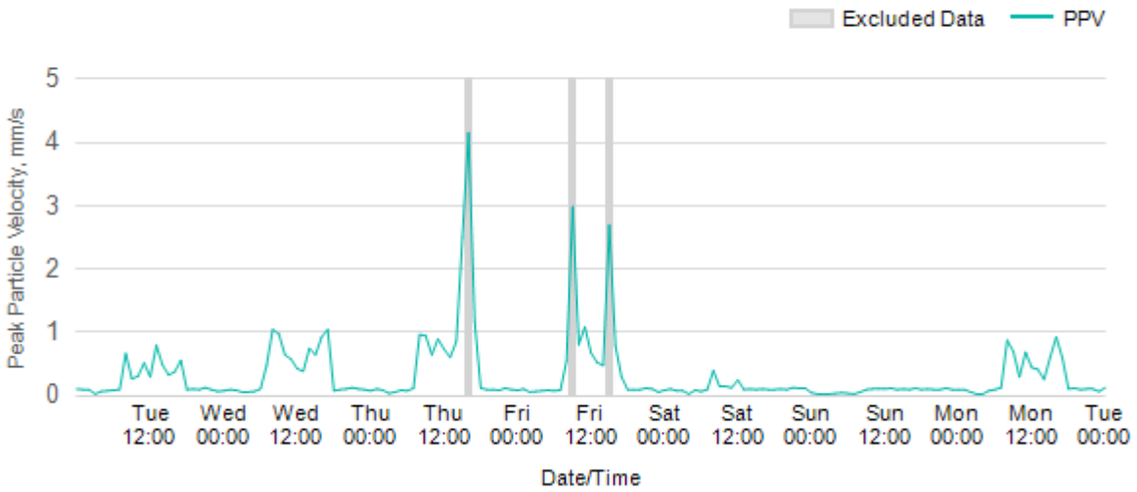

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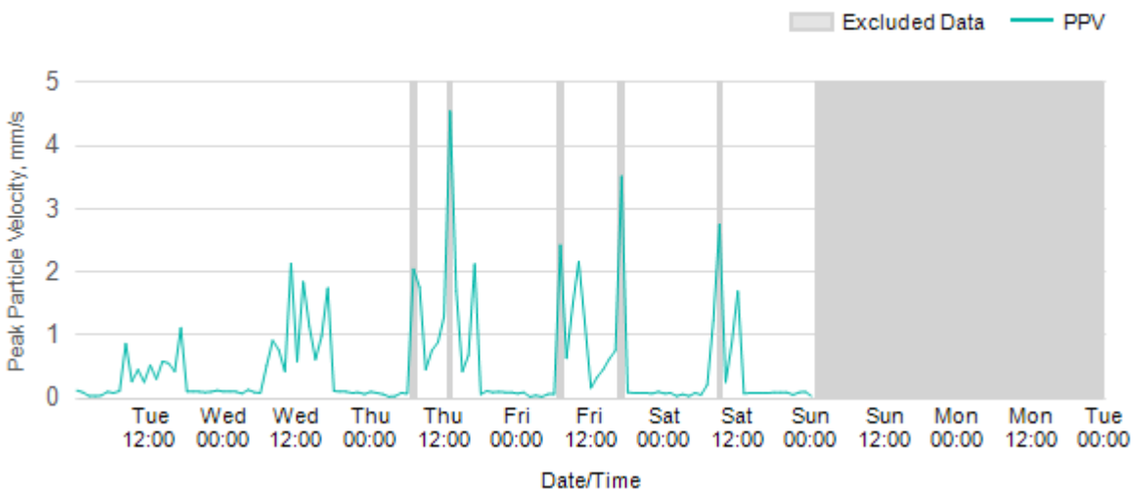

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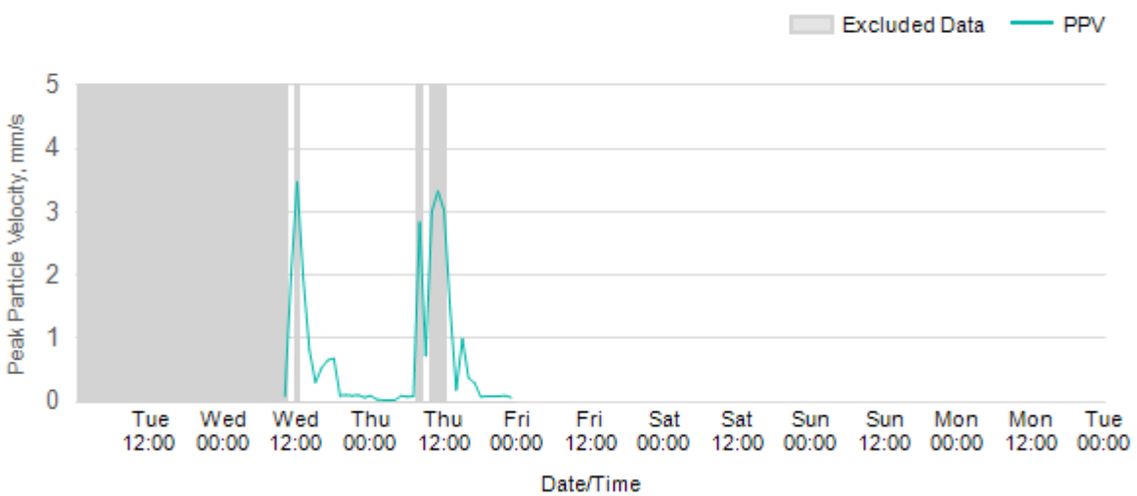
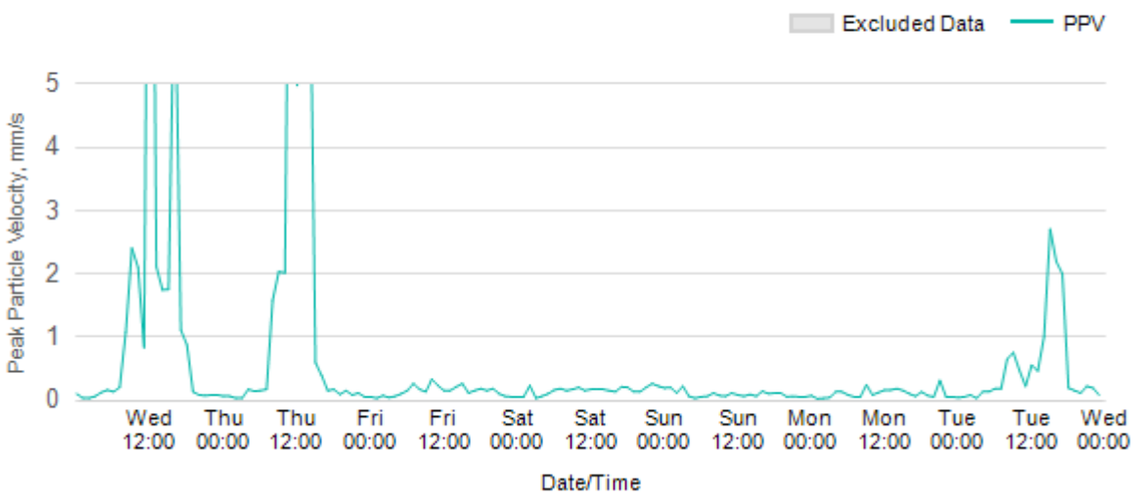


Worksite: BBE - Monitoring Ref: BBE-V1

Worksite: BBE Monitoring Ref: BBE-V1 01 April 2026 to 07 April 2026



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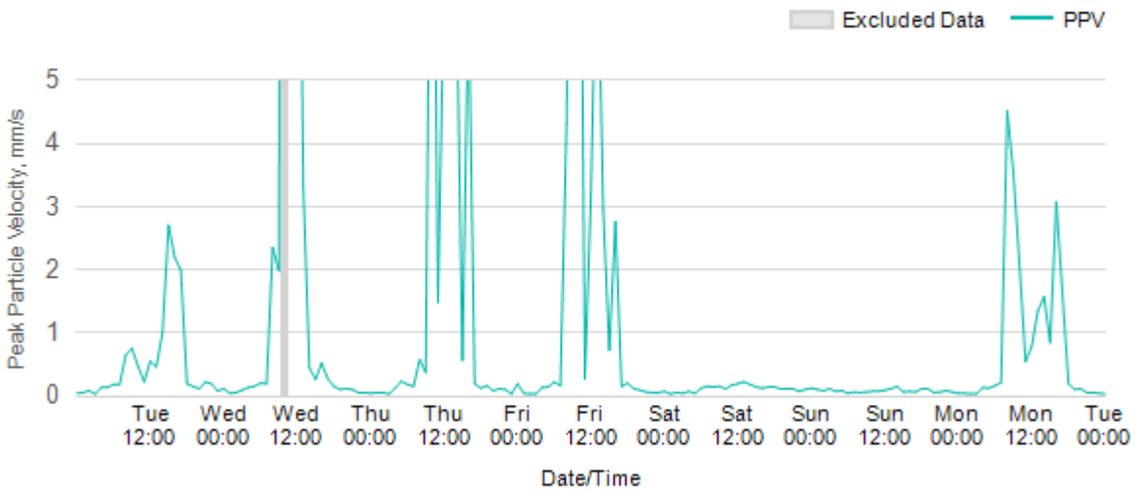

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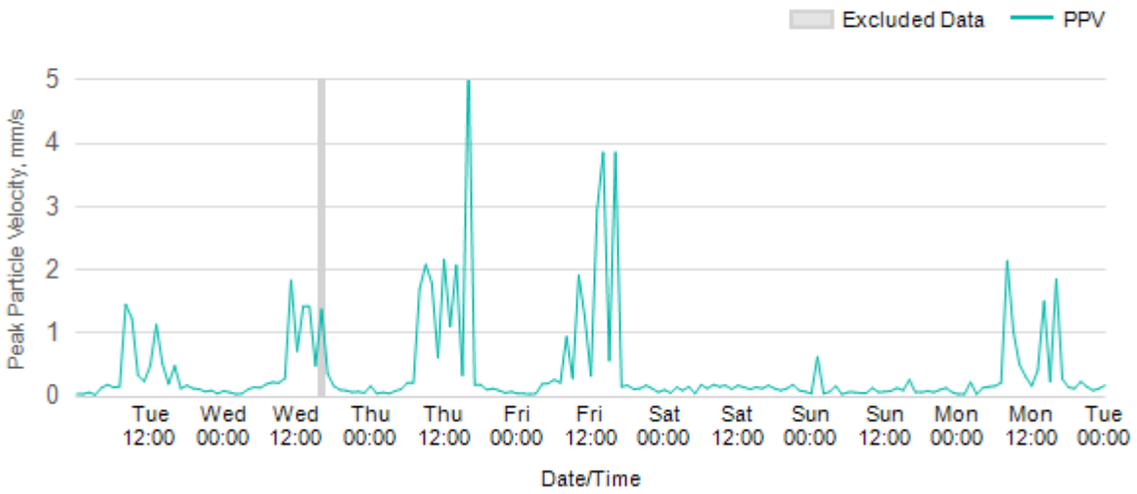
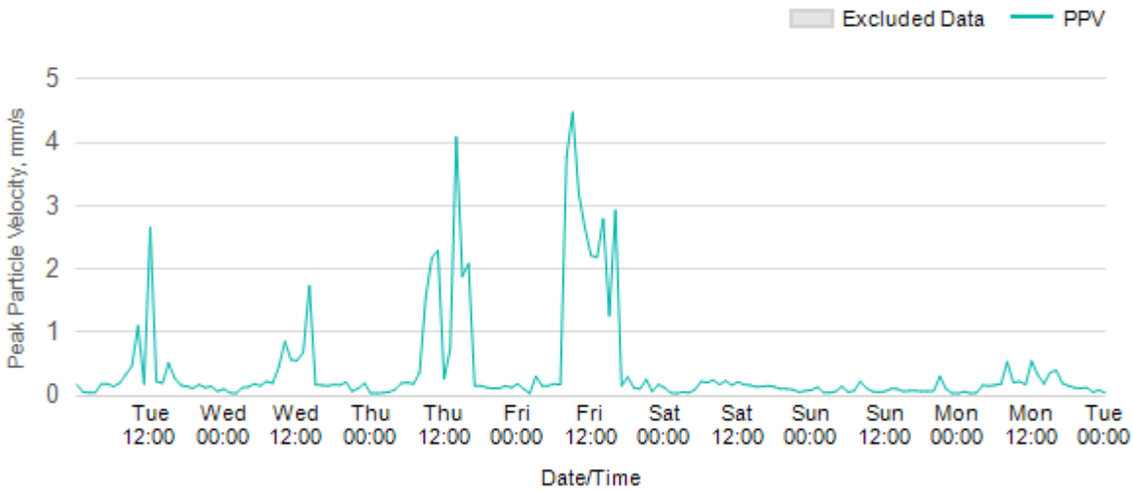


Worksite: BBE Monitoring Ref: BBE-V1 22 April 2026 to 28 April 2026



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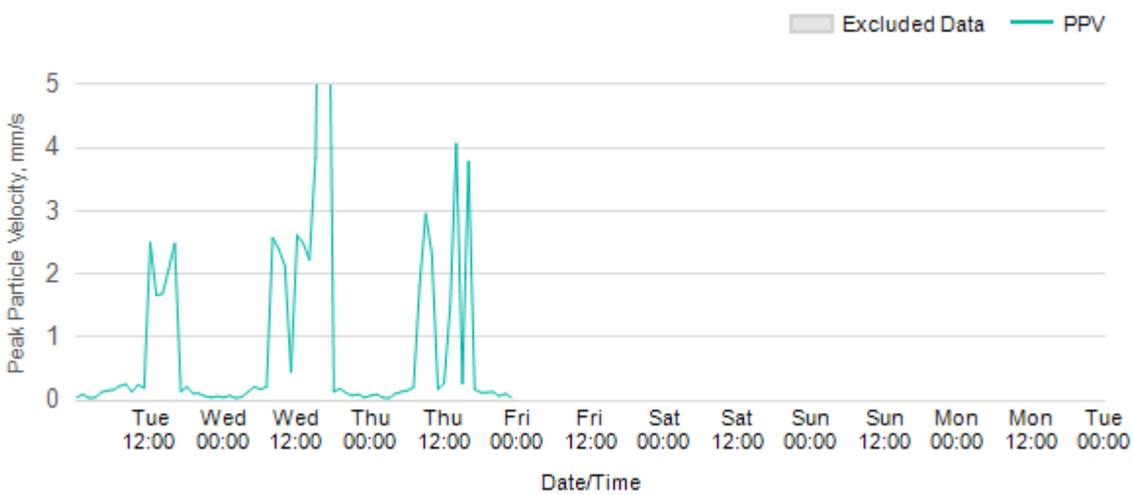
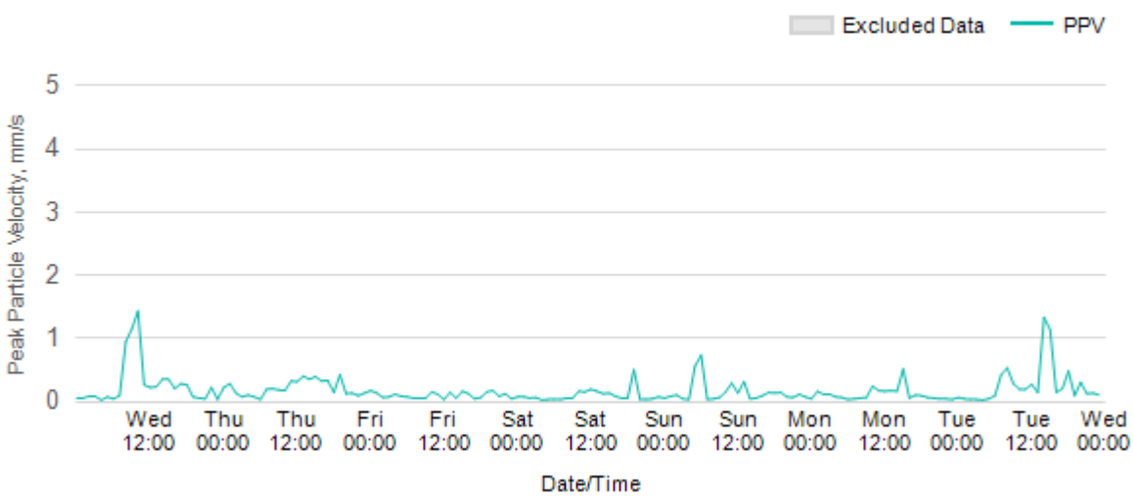
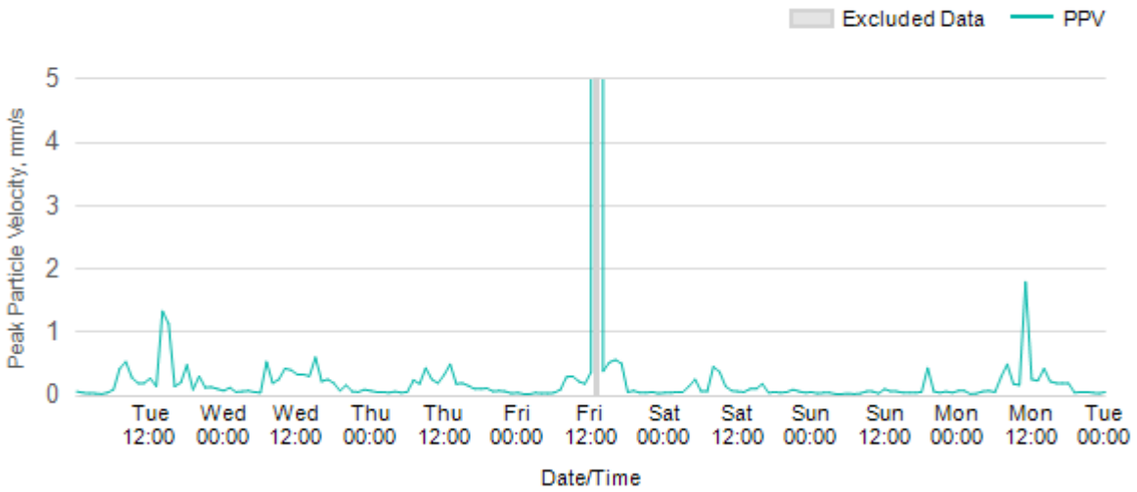


Worksite: PL - Monitoring Ref: PL-V2

Worksite: PL Monitoring Ref: PL-V2 01 April 2026 to 07 April 2026



Worksite: PL Monitoring Ref: PL-V2 08 April 2026 to 14 April 2026



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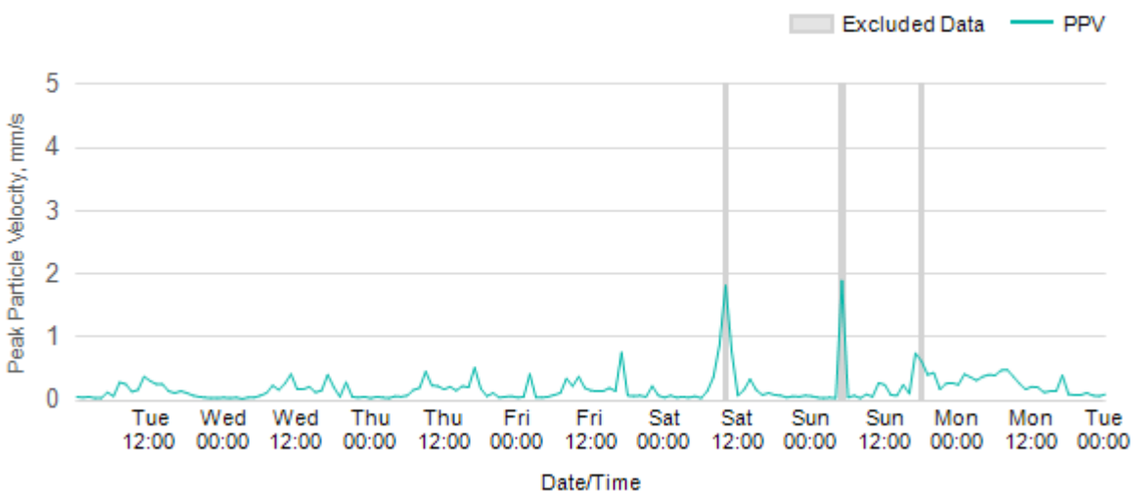

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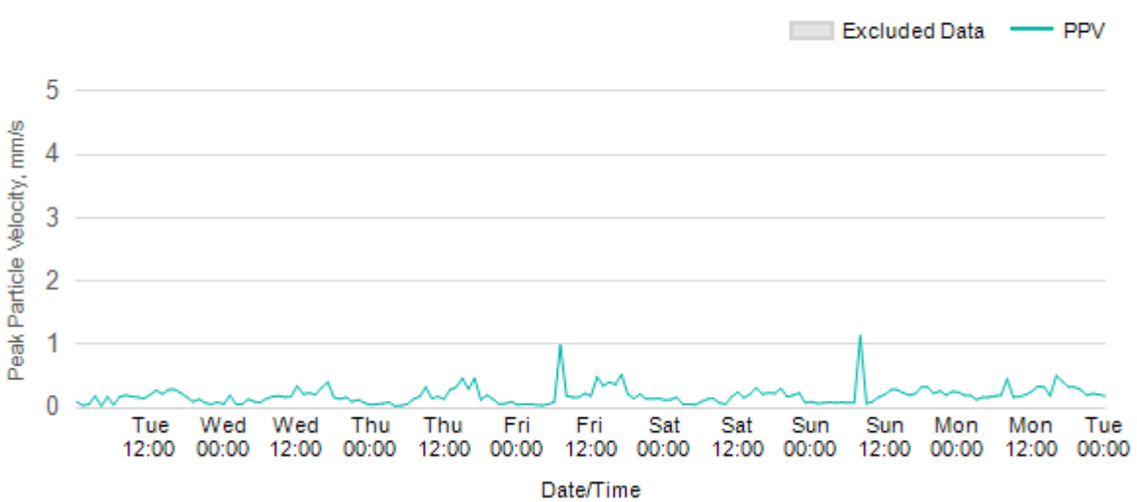

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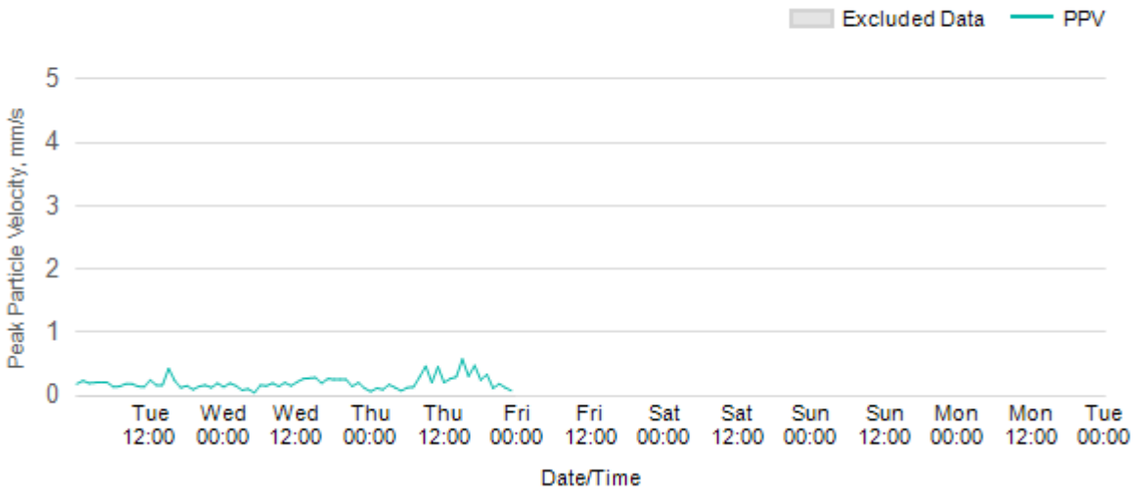
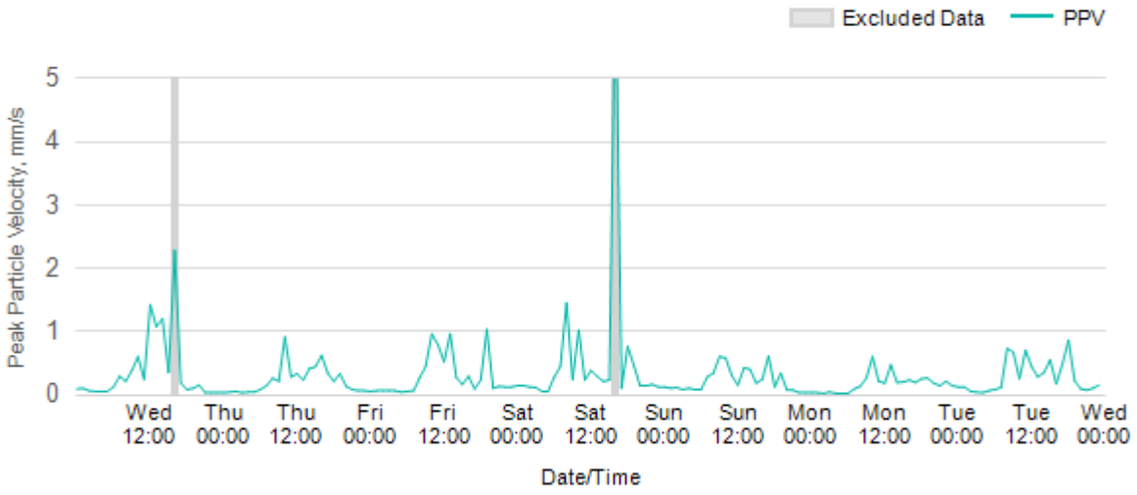
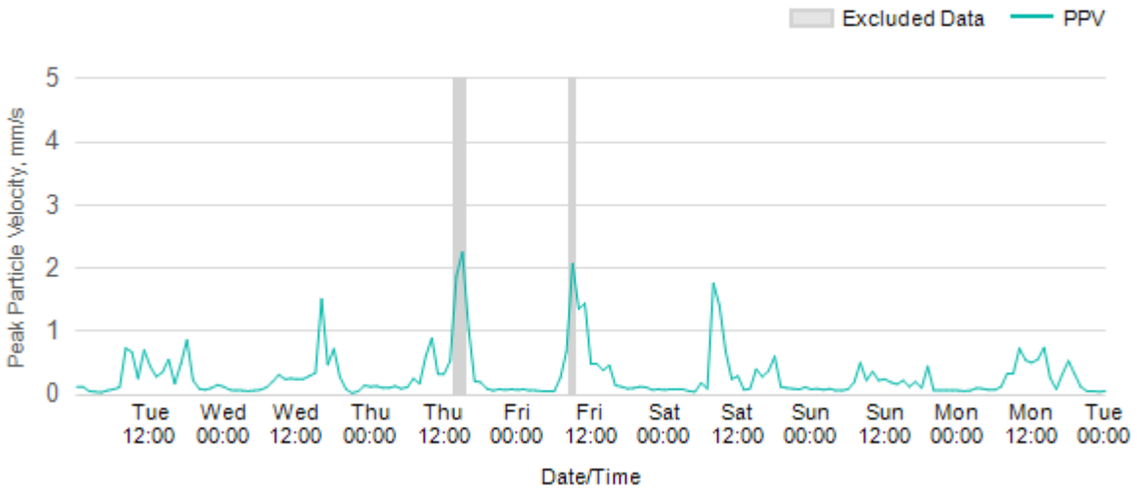


Worksite: DLE - Monitoring Ref: DLE-V1

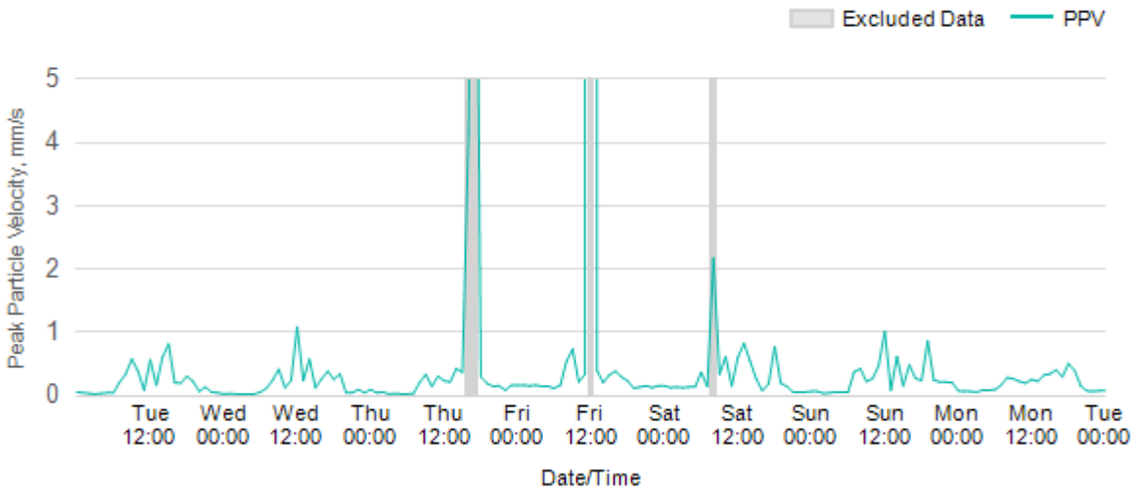
Worksite: DLE Monitoring Ref: DLE-V1 01 April 2026 to 07 April 2026



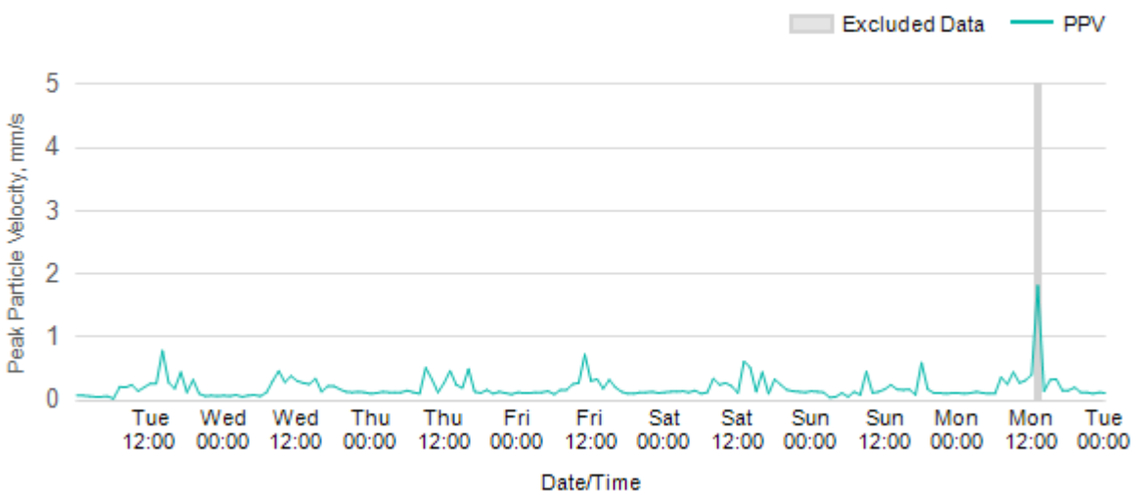
Worksite: DLE Monitoring Ref: DLE-V1 08 April 2026 to 14 April 2026



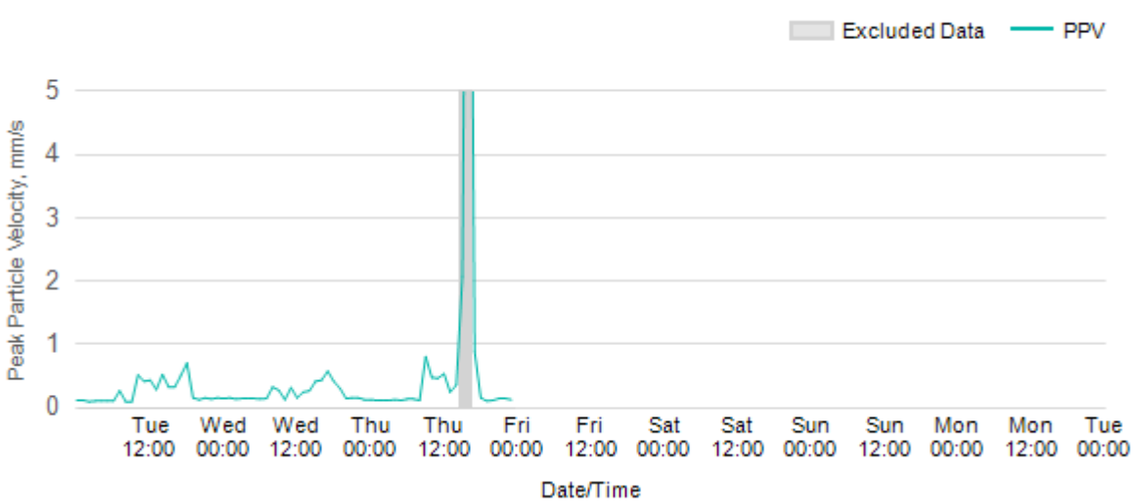
Worksite: DLE Monitoring Ref: DLE-V1 15 April 2026 to 21 April 2026



Worksite: DLE Monitoring Ref: DLE-V1 22 April 2026 to 28 April 2026

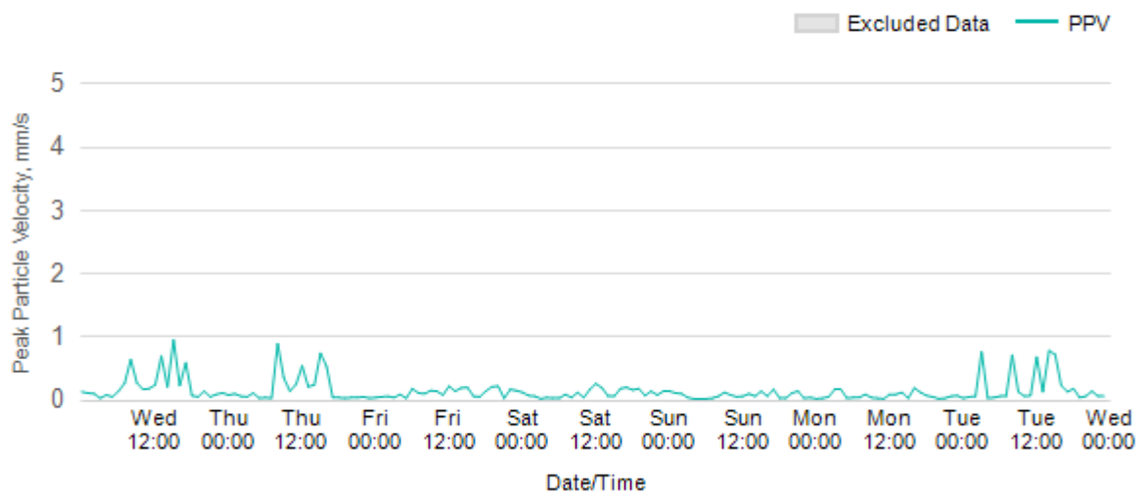


Worksite: DLE Monitoring Ref: DLE-V1 29 April 2026 to 5 May 2026



Worksite: A452 - Monitoring Ref: A452-V1

Worksite: A452 Monitoring Ref: A452-V1 01 April 2026 to 07 April 2026



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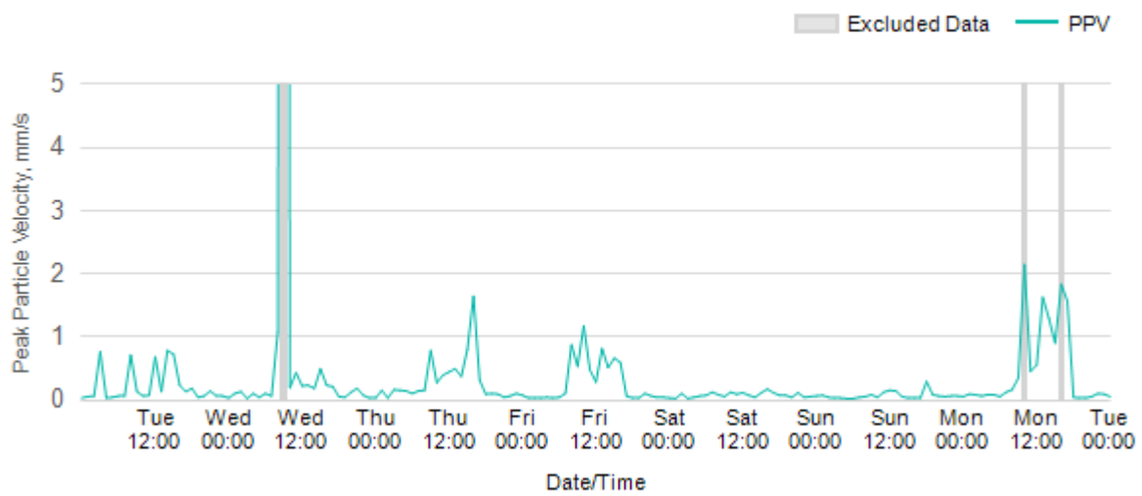
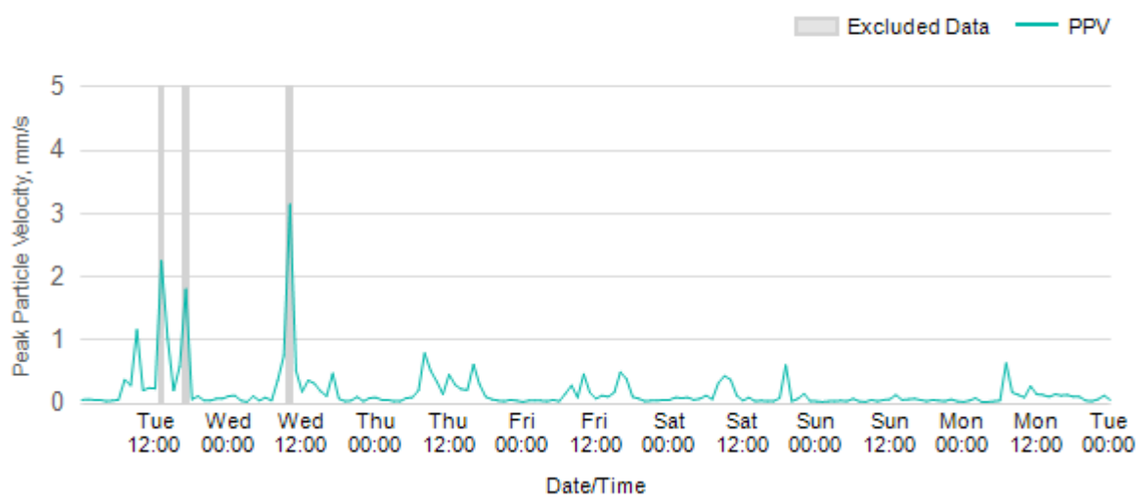
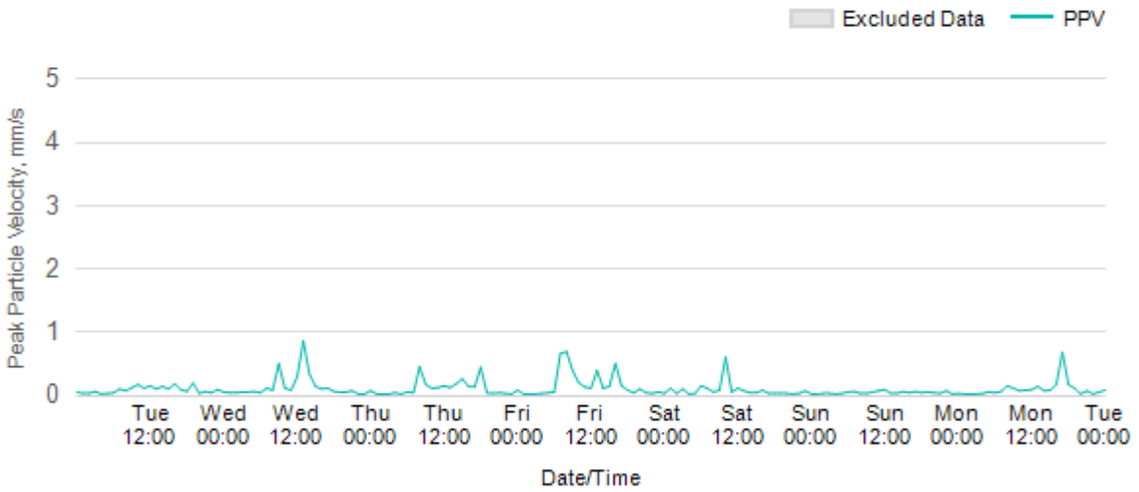


Worksite: A452 Monitoring Ref: A452-V1 15 April 2026 to 21 April 2026



Worksite: A452 Monitoring Ref: A452-V1 22 April 2026 to 28 April 2026



Worksite: A452 Monitoring Ref: A452-V1 29 April 2026 to 5 May 2026