HS2

March 2022

Construction Noise and Vibration Monthly Report – January 2022

London Borough of Ealing

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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 the London Borough of Ealing (LBE) (including one monitoring location on the boundary with the London Borough of Hammersmith and Fulham) during the month of January 2022.

Within this period monitoring was undertaken at the following worksites:

- Noise monitoring was undertaken in the vicinity of the Atlas Road worksite (ref. AR) where construction of the site haul roads, construction of crane foundations, construction of ramps, works on segment storage area, drainage works, construction of slabs, work to the Logistics Tunnel Launch ramp, conveyor works and deliveries of beams and props were underway.
- Noise and vibration monitoring were undertaken in the vicinity of the Willesden EuroTerminal worksite (ref. WET), where drainage works, conveyor works and storage slab joint works were undertaken.
- Noise monitoring was undertaken in the vicinity of the Victoria Road Crossover Box worksite (worksite ref. VRCB), where:
    - diaphragm wall works, concrete works, backfilling, cleaning out sliding gate base, power connection works, excavations, breaking out works, fencing installations, installation of ducts and sawing works were underway.
    - At the Victoria Road Ancillary Shaft, steel works, installation of formworks, installation of scaffold and water bar, shaft lining works, concrete pours and concrete panel tests, stripping works and pre-cast concrete works were underway.
- Noise monitoring was undertaken in the vicinity of the Flat Iron compound (worksite ref. FIC), where utility inspection, access chamber lids, works on conveyor bases, concrete pours, scaffolding installations and foundation concreting works were underway.
- Noise and vibration monitoring were undertaken in proximity of the Old Oak Common depot worksite (ref. OOC), where building fit-out, vegetation clearance, slab breaking, haul road construction, drainage installations, wall stabilisation works and conveyor installations were underway.
- Noise monitoring was undertaken in proximity of the Mandeville Road Ventilation Shaft worksite (ref.: MRVS), where installation of sheet piling, excavations, noise mitigation works and hoarding works were underway.
- Noise and vibration monitoring were undertaken in proximity of the Green Park Way Ventilation Shaft worksite (ref. GPWVS), where hardstanding works, works to the car park, installation of handrails, levelling ground works and grouting works were underway.

- Noise monitoring was undertaken in proximity of the Westgate Ventilation Shaft (ref. WVS), where excavation works, sprayed concrete lining works, hand trimming works, dowel bar installation and concrete pours were undertaken.

Further works, where monitoring was not undertaken, were also underway at:

- School Road, Bethune Road, Chase Road, Victoria Road and Atlas Road as part of utility diversion works; and
- Wormwood Scrubs where hoarding modifications were underway.

The HS2 threshold levels for significant noise impacts, which are defined in Information Paper E23 (https://www.gov.uk/government/publications/hs2-information-papers-environment), were exceeded on nine (9) occasions due to HS2 works during the reporting period.

There was one (1) exceedance of trigger levels, as defined in Section 61 consents, during the reporting period.

Seven (7) complaints were received during the monitoring period. A description of complaints, the results of investigation and any actions taken are detailed in Table 8 of this report.

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 Ealing (LBE) (including one monitoring location on the boundary with the London Borough of Hammersmith and Fulham) during the month for the period 1st to 31st January 2022.

1.1.3 Active construction sites in the local authority area, where noise and vibration monitoring were conducted during this period, include:

- Atlas Road worksite, ref. AR (see plan 5 in Appendix A), where work activities included:
  - Construction of the site haul road, including laying reinforcement and concrete pours;
  - Construction of crane foundations, including excavations, breaking out ducts and extending ducts;
  - Construction works of launch ramp;
  - Segment storage area works included concrete pours and striking of shutters, installation of mastic to joints and levelling of stone;
  - Drainage works, including installation of chambers and surcharge filters, and excavation and installation of channels;

- Work to capping beam for the Logistics Tunnel Launch ramp, including pouring blinding between secant piles, dig and trim works, excavation and installation of the sump;
- Conveyor works, including installation of bridges; and
- Deliveries of beams and props.

- Willesden EuroTerminal worksite, ref. WET (see plan 5 in Appendix A), where work activities included:
  - Drainage works, including installation of drainage chambers and channels;
  - Conveyor works, including installation of pedestrian bridge, installations of shutters, concrete pours, reinforcement of cages and construction of platform bases; and
  - Joint sealing works to the segment storage area.
- Victoria Road Crossover Box worksite, ref. VRCB (see plan 6 in Appendix A), where work activities included:
  - Construction of diaphragm wall, including excavation works and lifting of cages and concrete works;
  - Works for the welfare area, including preparation works in the entrance area and concreting of welfare slabs;
  - Backfilling works;
  - Power connection works;
  - Excavations and concreting for street light columns and sliding gate bases;
  - Excavations and breaking out for pits and piling;
  - Fencing installations;
  - Ducts installations;
  - Sawing works; and
  - Victoria Road Ancillary Shaft works comprising steel fixing works, formworks installations, installations of scaffold and water bar, shaft lining works, concrete pours and concrete panel tests, stripping works, and pre-cast concrete works were underway
- Flat Iron compound, worksite ref. FIC (see plan 6 in Appendix A), where work activities included:
  - Utility inspection and access chamber lids;

- Works on conveyor bases, including installing and grouting of earthing straps;
- Concrete pours;
- Installation of scaffolding; and
- Concreting of foundations.

- Old Oak Common depot worksite, located in the London Borough of Hammersmith and Fulham (LBHF), ref. OOC (see plan 7 in Appendix A), where work activities included:
  - Building fit-out;
  - Vegetation clearance;
  - Slab breaking;
  - Haul road construction;
  - Drainage installation;
  - Wall stabilisation works; and
  - Conveyor installation.
- Mandeville Road Ventilation Shaft worksite, reference MRVS (see plan 1 in Appendix A), where work activities included:
  - Installation of sheet piles;
  - Excavation works; and
  - Hoarding works
- Green Park Way Ventilation Shaft worksite, reference GPWVS (see plan 2 in Appendix A), where work activities included:
  - Hardstanding works, including concrete works;
  - Works to the car park included installations of parking bay dividers and cell-paving, adjustment works to the ventilation manhole lids, installation of charging points and electrical cables;
  - Installation of handrails on walkways, including moving blocks, levelling ground and installation of clamps; and
  - Grouting works including pre-drilling, drilling and jet grouting works.

- Westgate Ventilation Shaft worksite, reference WVS (see plan 3 in Appendix A), where work activities included:
  - Shaft excavation works, including Sprayed Concrete Lining works and hand trimming works; and
  - Installation of dowel bar and concrete pours.

1.1.4 Further works, where monitoring did not take place, were undertaken at:

- School Road, Bethune Road, Chase Road, Victoria Road and Atlas Road as part of utility diversion works; and
- Wormwood Scrubs where hoarding modifications were underway.

1.1.5 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 Nineteen (19) noise and nine (9) vibration monitoring installations were active in January in the LBE area. Table 2 summarises the position of noise and vibration monitoring installations within the LBE area in January 2022.

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

Table 2: Monitoring Locations

Worksite Reference	Measurement Reference	Address
AR	N032	Shaftesbury Gardens
	N033	Outside The Collective, Atlas Road / Victoria Road
	N060	Atlas Road next to Bashey Road
WET	N034	Stephenson Street (north)
	N035	Stephenson Street (south)
	N041	Junction of Stephenson Street / Goodhall Street
	V052	Stephenson Street (north)
	V057	37, Stephenson Street
VRCB	N031	School Road, outside Acton Business Centre

Worksite Reference	Measurement Reference	Address
	N050	Acton Square, outside North Acton Station
FIC	N029	Braitrim House, Victoria Road
	N042	Boden House Car Park
	N049	Flat Iron compound railway fence, Victoria Rd North Acton
OOC	OOC-N01	Old Oak Common Lane
	OOC-N02	Old Oak Common Lane, Hilltop Works
	OOC-V01	25 Wells House Road
	OOC-V02	Kildun Court, Old Oak Common Lane
	OOC-V03	Wells House Road Alleyway
MRVS	N040	Badminton Close
	N058	Mandeville Road
	N063	Mandeville Road
	V055	Mandeville Road
	V056	Mandeville Road
GPWVS	N059	Green Park Way Ventilation Shaft
	N064	Green Park Way Ventilation Shaft
	V053	Green Park Way, Greenford
	V054	Green Park Way Ventilation Shaft
WVS	N062	Westgate Ventilation Shaft

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
AR	N032	Shaftesbury Gardens	Free-field	62.6 (63.7)	64.6 (68.2)	63.0 (69.7)	61.5 (65.6)	58.7 (74.2)	59.6 (63.0)	62.0 (63.8)	62.2 (63.4)	61.8 (64.2)	58.9 (70.6)	61.1 (64.9)	59.1 (70.5)
	N033	Outside The Collective, Atlas Road/Victoria Road	Free-field	66.8 (69.9)	68.7 (74.9)	65.9 (68.9)	64.5 (68.4)	61.9 (74.5)	62.7 (66.5)	66.5 (70.6)	65.1 (68.5)	64.6 (68.2)	61.2 (70.6)	63.7 (68.2)	62.4 (69.2)
	N060	Atlas Road next to Bashey Road	Free-field	52.7 (57.6)	62.2 (67.5)	52.7 (58.0)	54.5 (61.9)	54.9 (69.6)	51.3 (56.6)	54.6 (57.5)	52.3 (55.9)	51.0 (59.4)	49.5 (58.2)	49.7 (56.7)	54.5 (61.6)
WET	N034	Stephenson Street (north)	Free-field	53.3 (58.0)	56.9 (60.8)	52.8 (57.7)	52.1 (56.6)	49.5 (71.0)	49.9 (54.9)	55.0 (60.2)	51.8 (54.7)	51.8 (59.0)	47.1 (51.1)	50.6 (60.3)	49.4 (55.7)
	N035	Stephenson Street (south)	Free-field	55.1 (58.7)	58.0 (63.7)	51.2 (57.0)	50.5 (55.2)	48.8 (67.9)	51.7 (55.0)	52.8 (56.3)	50.0 (53.8)	50.2 (54.1)	47.0 (51.6)	49.3 (55.0)	49.1 (56.8)
	N041	Junction of Stephenson Street/Goodhall Street	Free-field	53.8 (60.9)	59.7 (64.9)	55.1 (61.8)	53.6 (57.4)	50.8 (83.8)	51.4 (53.2)	56.7 (60.4)	54.7 (58.3)	53.4 (55.8)	49.3 (57.7)	54.1 (70.8)	50.8 (58.6)

Worksite Reference	Measurement Reference	Site Address	Free-field or Façade measurement	Weekday Average $L_{Aeq,T}$ (highest day $L_{Aeq,T}$)					Saturday Average $L_{Aeq,T}$ (highest day $L_{Aeq,T}$)					Sunday / Public Holiday Average $L_{Aeq,T}$ (highest day $L_{Aeq,T}$)	
				0700 - 0800	0800 - 1800	1800 - 1900	1900 - 2200	2200 - 0700	0700 - 0800	0800 - 1300	1300 - 1400	1400 - 2200	2200 - 0700	0700 - 2200	2200 - 0700
VRCB	N031	School Road, outside Acton Business Centre	Free-field	58.6	62.0	59.6	57.0	53.8	54.1	58.0	59.8	57.8	52.3	56.9	55.0
				(64.7)	(64.7)	(65.2)	(69.1)	(75.1)	(57.2)	(62.8)	(62.1)	(60.8)	(59.4)	(61.0)	(64.6)
	N050	Acton Square, outside North Acton Station	Free-field	64.6	65.0	62.7	61.9	59.0	62.5	62.1	61.8	62.4	58.7	61.4	58.3
				(68.0)	(67.3)	(65.1)	(64.1)	(72.7)	(66.6)	(63.7)	(62.4)	(67.8)	(68.3)	(64.5)	(64.7)
FIC	N029	Braitrim House, Victoria Road	Free-field	56.6	62.9	54.5	54.2	55.0	54.5	55.2	52.3	49.4	48.3	51.3	54.3
				(63.1)	(69.4)	(63.1)	(67.6)	(69.9)	(57.6)	(60.5)	(55.8)	(56.3)	(66.1)	(59.3)	(64.9)
	N042	Bodens car park	Free-field	57.4	62.1	55.4	54.6	54.3	54.7	57.4	54.8	54.0	53.2	53.7	54.6
				(62.8)	(69.0)	(58.2)	(57.1)	(72.6)	(55.7)	(62.8)	(56.6)	(55.7)	(62.9)	(56.3)	(62.3)
	N049	Flat Iron compound	Free-field	54.7	65.7	54.9	54.6	55.8	52.1	60.9	54.8	51.3	51.2	50.8	55.6
				(59.3)	(76.2)	(60.9)	(62.5)	(69.9)	(53.5)	(80.2)	(58.0)	(57.4)	(64.2)	(57.3)	(68.0)
OOC	OOC-N01	Old Oak Common Lane	Free-field	65.8	71.8	65.4	63.7	60.2	62.2	66.8	63.9	63.3	59.3	62.5	60.1
				(72.4)	(75.5)	(69.9)	(69.7)	(71.1)	(68.6)	(75.6)	(65.9)	(66.9)	(67.1)	(65.1)	(69.0)
	OOC-N02	Old Oak Common Lane, Hilltop Works	Free-field	67.7	70.6	67.9	66.7	62.7	65.5	67.7	66.9	66.4	62.0	65.6	62.4
				(74.2)	(74.5)	(72.1)	(73.8)	(71.4)	(73.8)	(74.5)	(68.2)	(69.7)	(70.4)	(69.9)	(68.9)
MRVS	N040	Badminton Close	Free-field	55.2	59.8	54.7	54.8	53.0	56.6	56.3	55.3	55.2	52.3	54.7	52.8
				(57.8)	(62.9)	(57.1)	(58.2)	(74.3)	(59.3)	(58.4)	(58.0)	(58.0)	(57.8)	(58.7)	(60.8)
	N058	Mandeville Road	Free-field	55.0	61.3	53.5	53.7	51.6	52.7	55.1	54.9	54.2	48.9	53.3	51.1
				(57.1)	(73.8)	(58.1)	(59.0)	(77.8)	(55.4)	(60.2)	(58.2)	(60.2)	(54.3)	(57.7)	(59.3)

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
	N063	Mandeville Road	Free-field	59.5	69.7	59.4	59.2	56.3	57.3	67.8	58.4	58.7	55.1	58.3	55.2
				(65.3)	(78.1)	(73.1)	(70.8)	(74.2)	(59.4)	(71.5)	(61.1)	(62.8)	(59.0)	(61.1)	(59.9)
GPWVS	N059	Green Park Way Ventilation Shaft	Free-field	60.8	66.6	59.8	55.0	52.4	53.5	60.1	56.1	54.7	49.6	54.1	51.4
				(67.4)	(72.7)	(67.4)	(64.8)	(69.4)	(55.6)	(65.1)	(58.3)	(61.5)	(57.3)	(63.1)	(60.1)
	N064	Green Park Way Ventilation Shaft	Façade	58.0	64.0	59.1	56.8	53.6	55.7	58.0	57.9	56.6	50.5	56.5	52.2
				(61.1)	(67.2)	(63.2)	(61.8)	(72.1)	(57.5)	(60.3)	(61.5)	(62.1)	(55.8)	(60.8)	(57.7)
WVS	N062	Westgate Ventilation Shaft	Free-field	63.1	66.4	60.4	62.3	60.6	58.3	65.6	59.2	58.1	57.5	58.6	56.6
				(69.9)	(71.0)	(68.8)	(72.5)	(77.1)	(60.7)	(69.3)	(63.0)	(62.9)	(70.9)	(64.0)	(61.6)

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
WET	V052	Stephenson Street (north)	0.93 (Z-axis)
	V057	37, Stephenson Street	1.06 (Z-axis)
OOC	OOC-V01	25 Wells House Road	2.72 (Y-axis))
	OOC-V02	Kildun Court, Old Oak Common Lane	0.77 (Z-axis)
	OOC-V03	Wells House Road Alleyway	0.90 (Z-axis)
GPWVS	V053	Green Park Way, Greenford	0.97 (Y-axis)
	V054	Green Park Way Ventilation Shaft	0.85 (Z-axis)
MRVS	V055	Mandeville Road	2.93 (Z-axis)
	V056	Mandeville Road	17.40 (Y-axis)*

* High vibration levels are due to works undertaken in close proximity of the vibration monitoring location, which is temporarily located whitin the worksite. The nearest residential receptors are further away from the works and viration levels at the receptors will therefore be lower.

2.1.3 Appendix C presents graphs of the noise and vibration monitoring data over the month for each of the measurement locations. Noise data presented consists of the hourly L_{Aeq} values and, where relevant, the $L_{Aeq,T}$ values (where the time period T has been taken to be the averaging period as specified in Table 1 of HS2 Information Paper E23). Vibration data presented consist of hourly PPV values. The full data set for the monitoring equipment can be found at the following location: https://data.gov.uk/dataset/24542ae7-dd44-444f-b259-871c4cc43b5e/environmental-monitoring-data.

2.2 Exceedances of the SOAEL

2.2.1 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."

2.2.2 HS2 Phase One Information Paper E23: Control of Construction Noise and Vibration sets out the SOAELs for construction noise.

2.2.3 Where reported construction noise levels exceed the SOAEL, relevant periods will be identified. Summary statistics to evaluate ongoing qualification for noise insulation and temporary rehousing are also presented where relevant.

2.2.4 Table 5 presents a summary of recorded exceedances of the SOAEL at each measurement location over the reporting period, including the number of exceedances during each time period.

Table 5: Summary of Exceedances of SOAEL

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
AR	N032	Shaftesbury Gardens	All days	All periods	No exceedance
	N033	Outside The Collective, Atlas Road / Victoria Road	All days	All periods	No exceedance
	N060	Atlas Road next to Bashey Road	All days	All periods	No exceedance
WET	N034	Stephenson Street (north)	All days	All periods	No exceedance
	N035	Stephenson Street (south)	All days	All periods	No exceedance
	N041	Junction of Stephenson Street / Goodhall Street	All days	All periods	No exceedance
VRCB	N031	School Road, outside Acton Business Centre	All days	All periods	Not applicable*
	N050	Acton Square, outside North Acton Station	Night	2200-0700	2
FIC	N029	Braitrim House, Victoria Road	All days	All periods	No exceedance
	N042	Bodens Car Park	All days	All periods	No exceedance
	N049	Flat Iron compound	Weekdays	0800-1800	2
OOC	OOC-N01	Old Oak Common Lane	Weekdays Saturdays	0800-1800 0800-1300	1 1

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL
	OOC-N02	Old Oak Common Lane, Hilltop Works	Weekdays Saturdays Nights	0800-1800 0800-1300 2200-0700	1 1 1
MRVS	N040	Badminton Close	All days	All periods	No exceedance
	N058	Mandeville Road	All days	All periods	No exceedance**
	N063	Mandeville Road	All days	All periods	No exceedance**
GPWVS	N059	Green Park Way Ventilation Shaft	All days	All periods	Not applicable*
	N064	Green Park Way Ventilation Shaft	All days	All periods	Not applicable*
WVS	N062	Westgate Ventilation Shaft	All days	All periods	Not applicable*

* The defined SOAEL criteria are not applicable to non-residential properties

** Noise levels measued in excess of the SOAEL at monitors N058 and N063 were from works in close proximity to the monitor and do not represent an exceedance of the SOAEL at the nearest residential receptor.

2.2.5 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
VRCB	N050	Acton Square, outside North Acton Station	2
FIC	N049	Flat Iron compound	2
OOC	OOC-N01	Old Oak Common Lane	2
	OOC-N02	Old Oak Common Lane, Hilltop Works	3

2.2.6 Nine (9) exceedances of the SOAEL were recorded due to HS2 construction works during January 2022. Exceedances occurred at the noise monitor N049 during two night-time periods, at N050 during two weekday daytime periods, at OOC-N01 during three weekday daytime periods and one Saturday and at OOC-N02 during one weekday daytime period and one Saturday.

2.3 Exceedances of Trigger Level

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

Table 7: Summary of Exceedances of Trigger Levels

Complaint Reference Number (if applicable)	Worksite Reference	Date and Time Period	Identified Source	Results of Investigation (including noise monitoring results)	Actions Taken
HS2-22-73197-E	MRVS	28/01/2022, 0800-1800	The red alert was due to concrete cutting works undertaken with a petrol saw.	Investigations shown that activities were taking place next to the palisade fencing and no acoustic barrier was installed. 78.1dB $L_{Aeq,10hr}$ measured at the time of trigger alert. However, noise levels at nearby receptors were compliant with Section 61 trigger levels due to the distance between the monitor and nearby receptors.	Noise barriers have been installed and activities were concluded within 30min from the alert.

2.4 Complaints

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

Table 8: Summary of Complaints

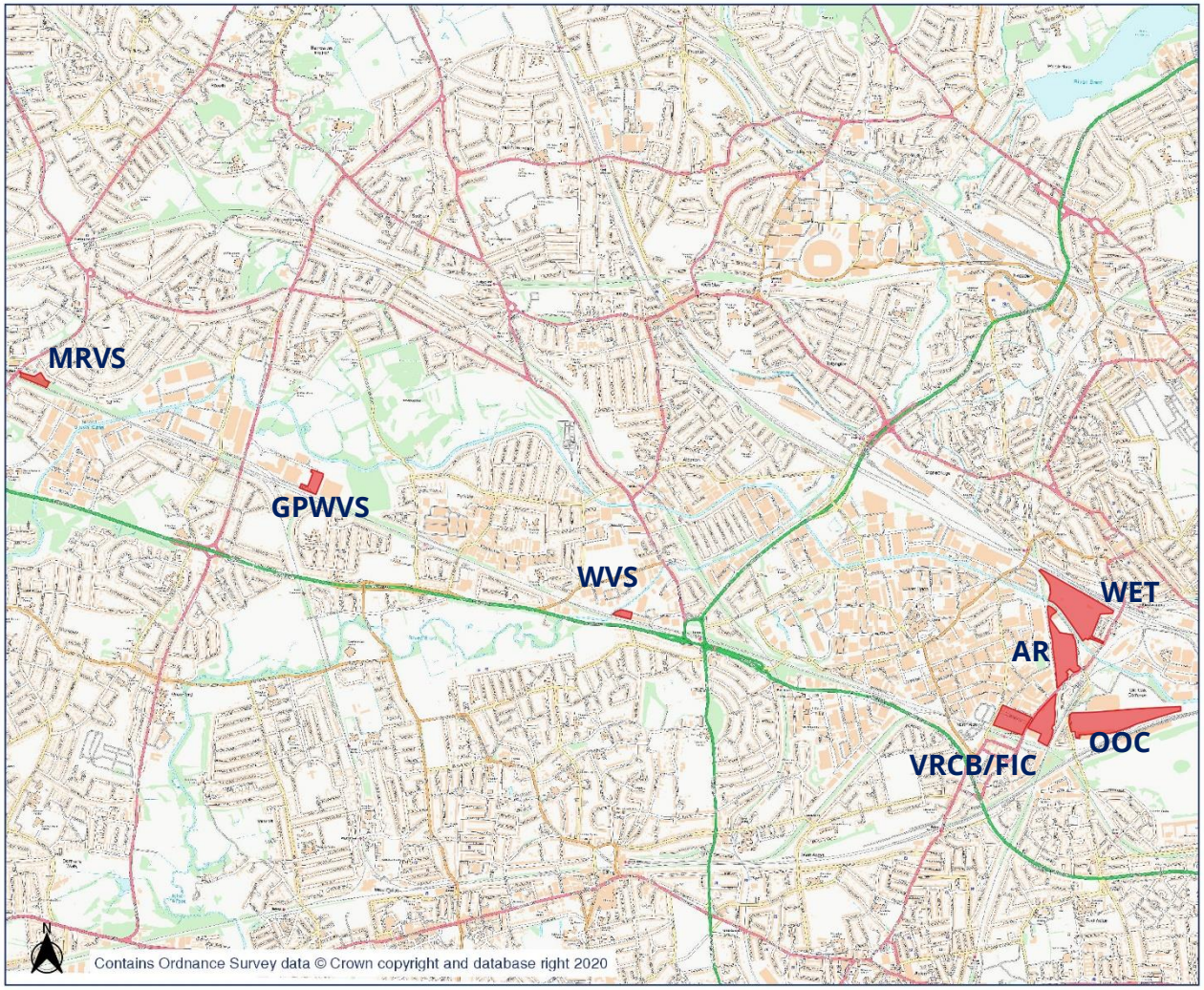
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-22-73197-E	MRVS	Complaint regarding high level of noise coming from the site without any acoustic barriers in place.	Investigations shown that a section of the hoardings was removed to facilitate the ongoing sheet piling and to assist with the identification of a high voltage cable within the area. No noise mitigation was installed as a replacement, and it has been confirmed to be an oversight by the site team.	The temporary fencing, that was erected in place of the hoarding, has been immediately covered with acoustic blankets.

Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-22-43208-C	OOC	Complaint due to noise disturbance from boundary wall works commencing prior to 8am.	Investigations shown that noise was likely due to conveyor installation works undertaken next to the boundary wall. However, noise and vibration were confirmed to be within the permitted limits and works were undertaken in line with Section 61 consent.	Works have been undertaken in line with Section 61 consent and information about road closure, conveyor lift and schedule of works was provided to the complainant.
HS2-22-43134-C	OOC	Complaint about all-day drilling, noise disturbance and vibrations felt at the property. A vibration monitor has been requested to be installed at the property.	Investigations shown that noise and vibration were likely due to conveyor installation works undertaken next to the boundary wall. However, noise and vibration were confirmed to be within the permitted limits and works were undertaken in line with Section 61 consent.	The complainant has been contacted and a vibration monitor has been installed at the property.
HS2-22-43181-C	OOC	Complaint due to noise disturbance from shouting on site prior to 8am.	Investigation found to be most appropriately raised with Security and traffic marshals at site entrance.	Feedback was sent to security and traffic marshals and a quiet zone signage has been added at site entrance. It has been also reconfirmed to stakeholder that deliveries and arrival of workforce on site will be present from 7am.
HS2-22-43226-C	OOC	Complaint due to noise disturbance from workers, diggers and trucks moving prior to 8am.	Investigation found that digging work started prior to 8am.	Apology has given to stakeholder as this should not have happened and operatives have been re-briefed.

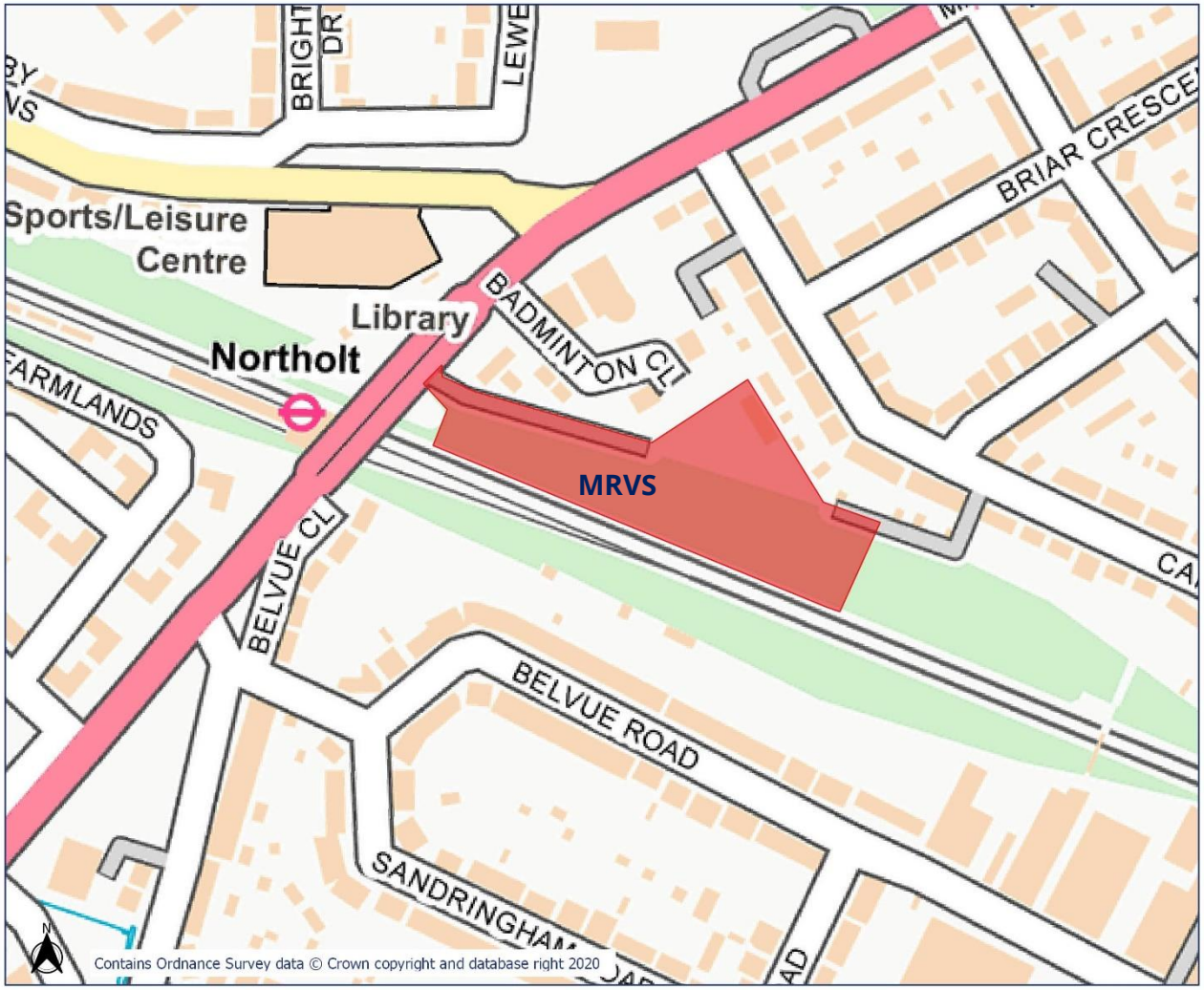
Complaint Reference Number	Worksite Reference	Description of Complaint	Results of Investigation	Actions Taken
HS2-22-43230-C	OOC	Complaint due to noise disturbance from works at night and movement of machinery.	Investigations shown that noise was likely due to conveyor installation works undertaken next to the boundary wall. However, noise and vibration were confirmed to be within the permitted limits and works were undertaken in line with Section 61 consent.	Works have been undertaken in line with Section 61 consent and hand tools were used to minimise the noise. Information about road closure, conveyor lift and schedule of works was provided to the complainant.
HS2-21-70426-E	OOC	Complaint due to high vibration levels.	Investigations shown that works were undertaken at the time of the complaint, and they were undertaken in line with Section 61 consent.	The complaint has been contacted and a temporary vibration monitor was installed at the property between 19/01/2022 and 31/01/2022. The measured vibration levels during this period were significantly below the level at which cosmetic damage to residential building would be expected.

Appendix A Site Locations

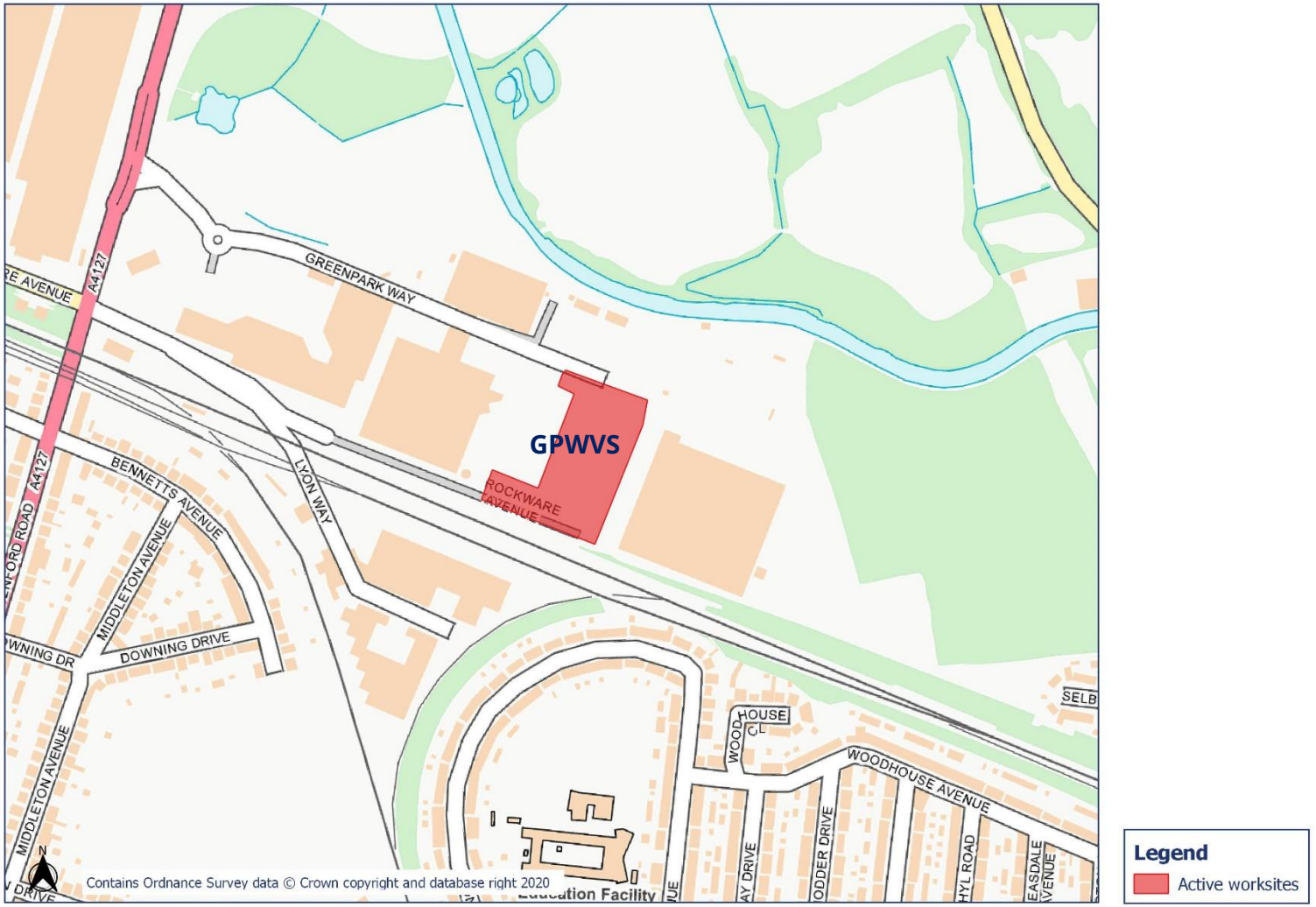
HS2 Worksite identification plan - Overview



HS2 Worksite identification plan - 1

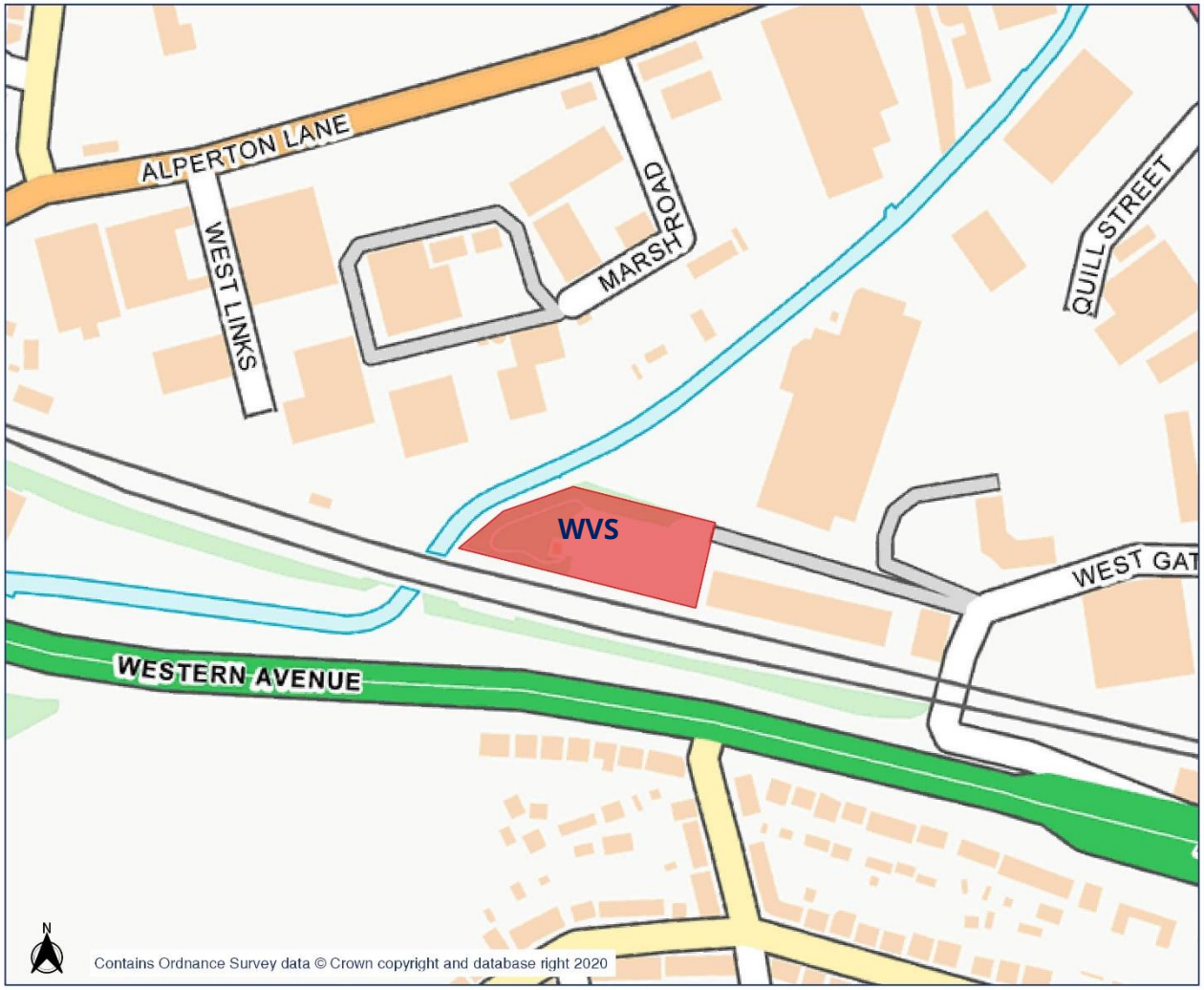


Worksite identification plan - 2



HS2

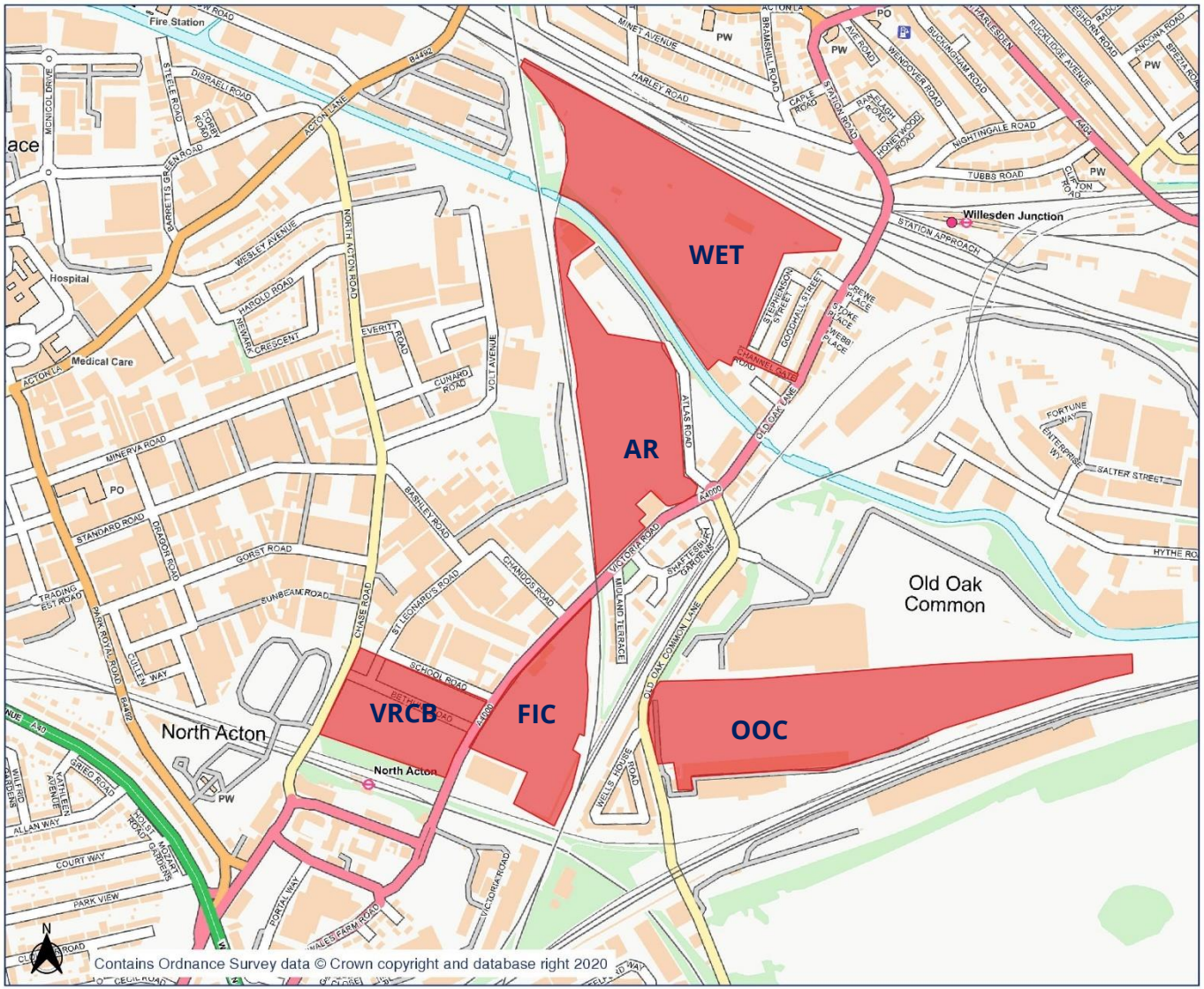
Worksite identification plan - 3



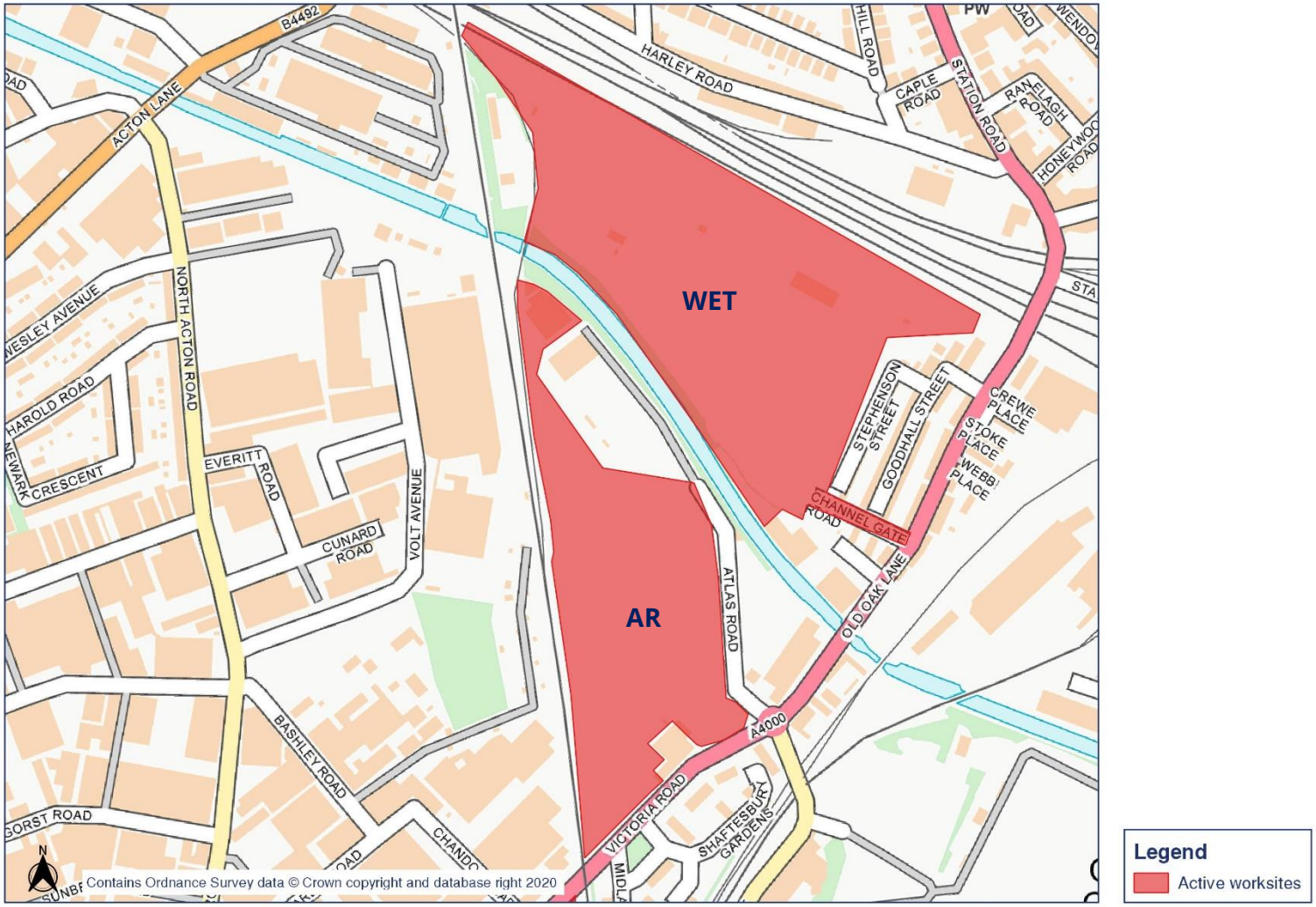
Legend

Active worksites

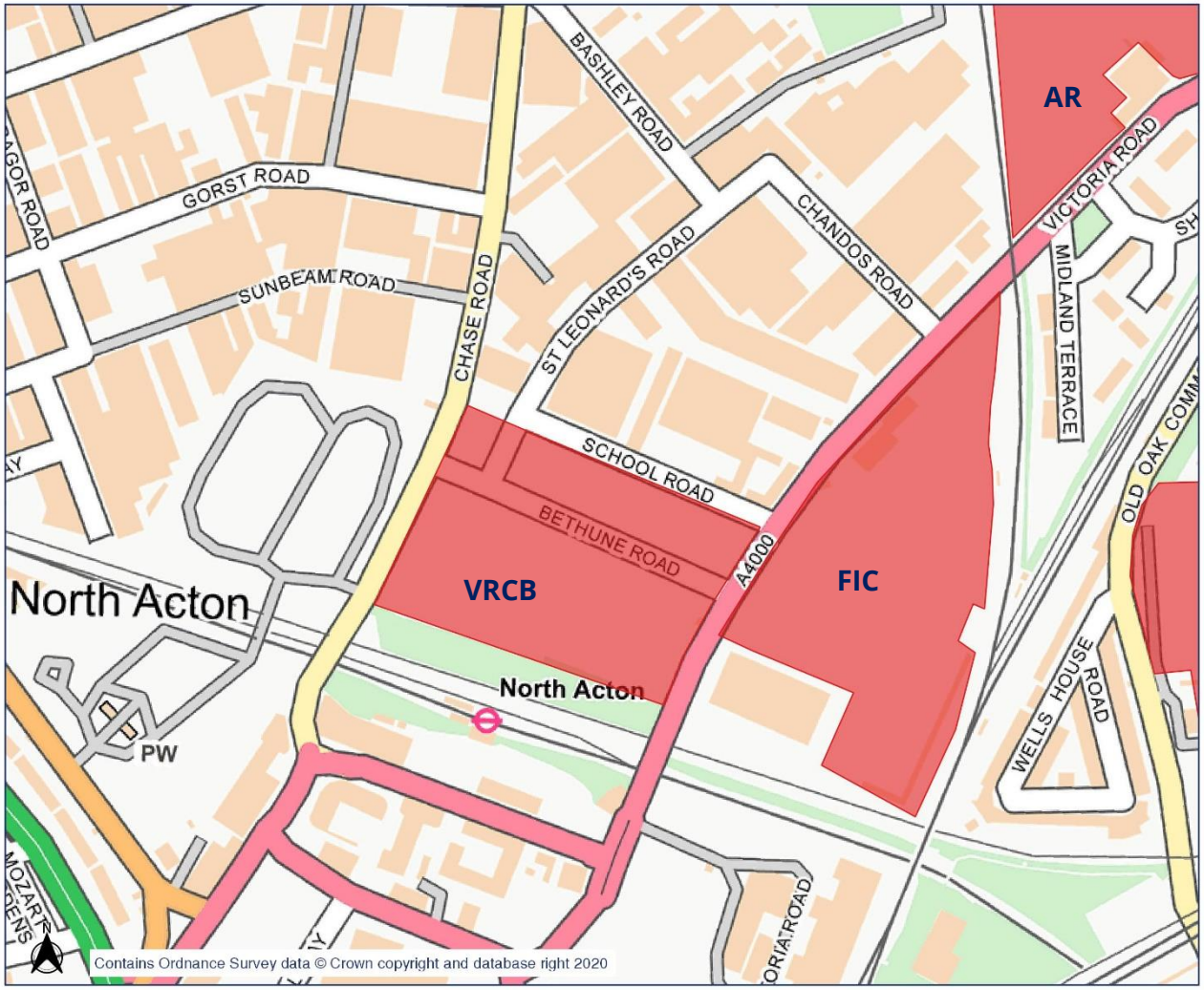
Worksite identification plan - 4



Worksite identification plan - 5

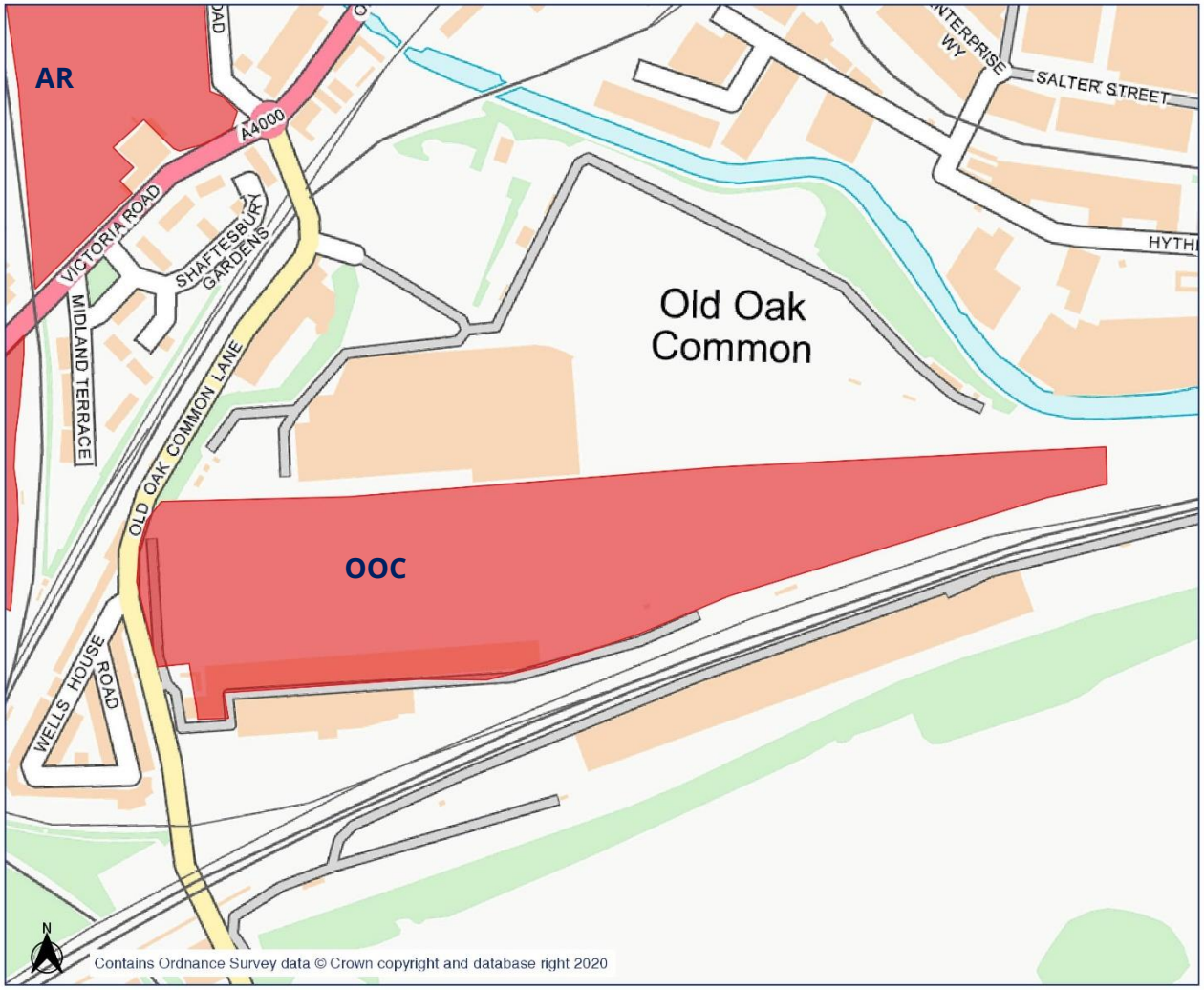


HS2 Worksite identification plan - 6



HS2

Worksite identification plan - 7

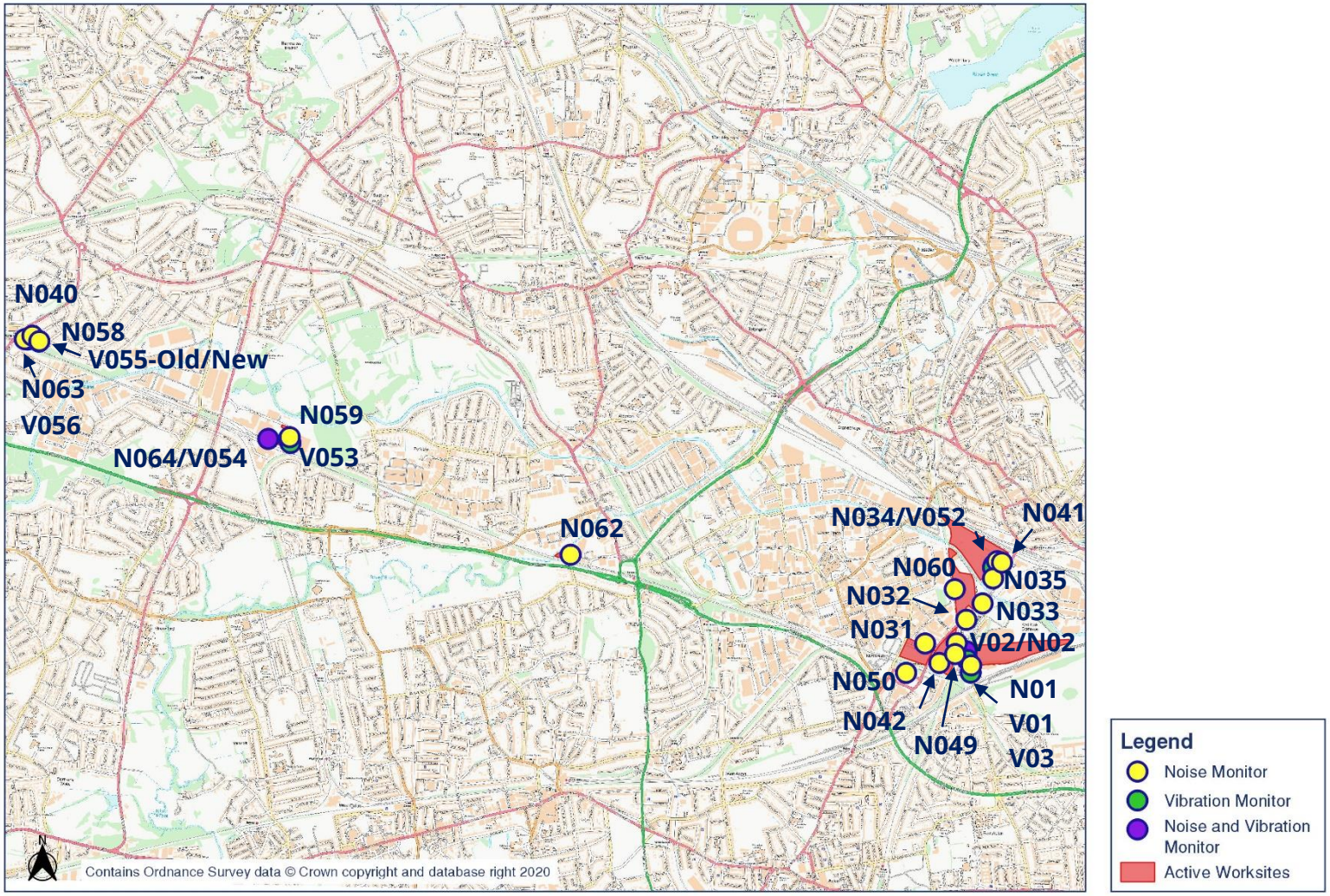


Legend

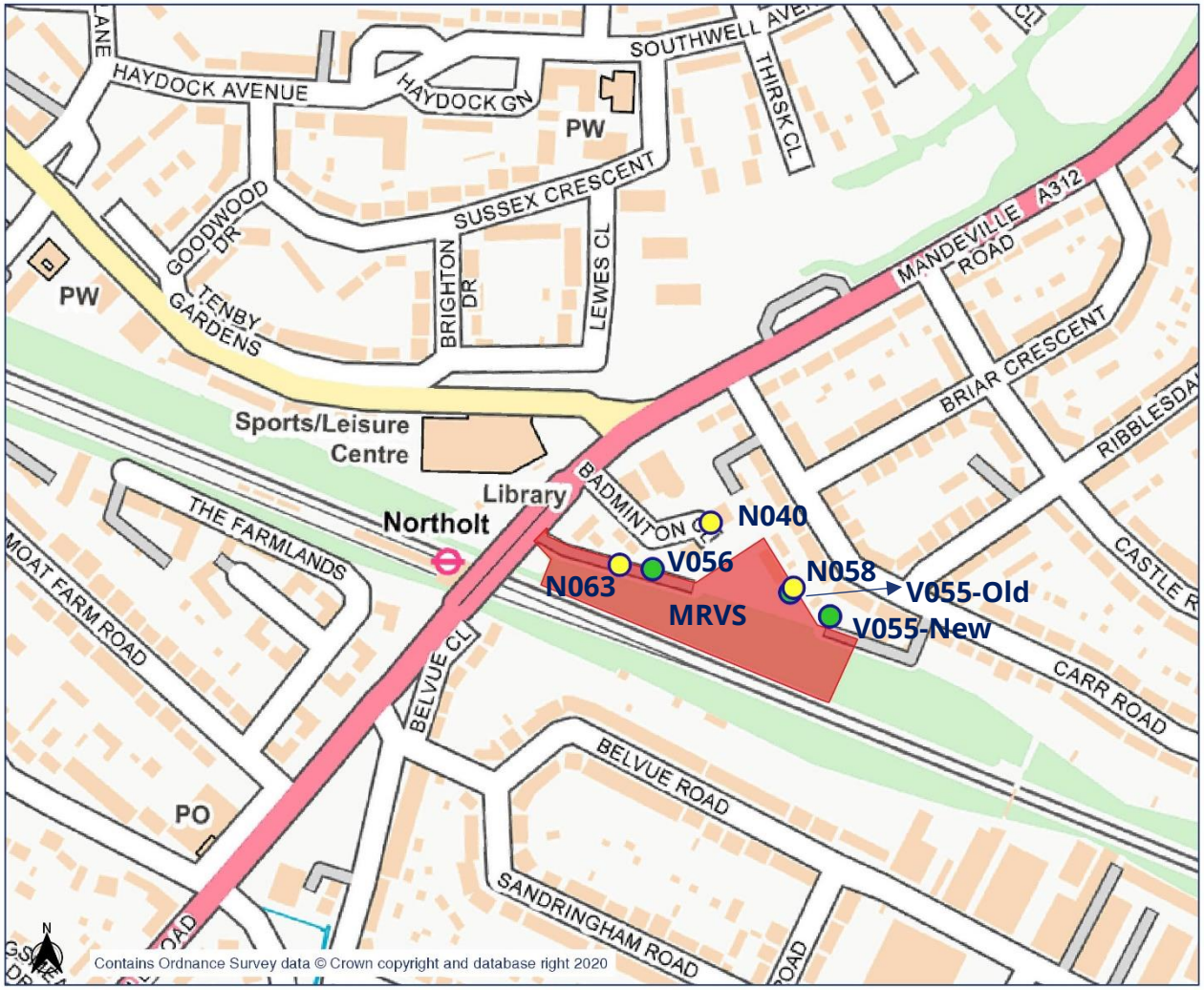
Active worksites

Appendix B Monitoring Locations

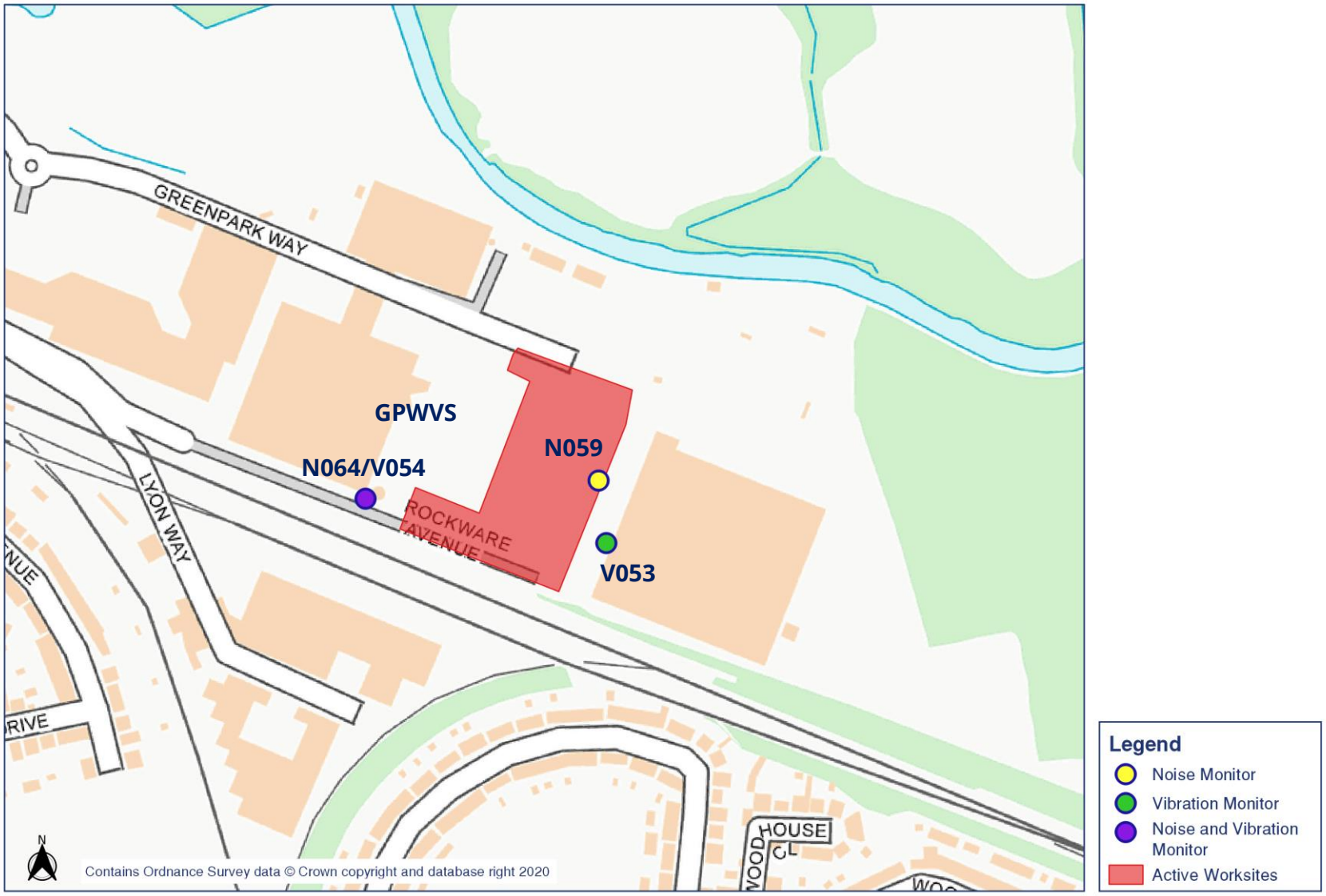
HS2 Noise and vibration monitoring plan - Overview



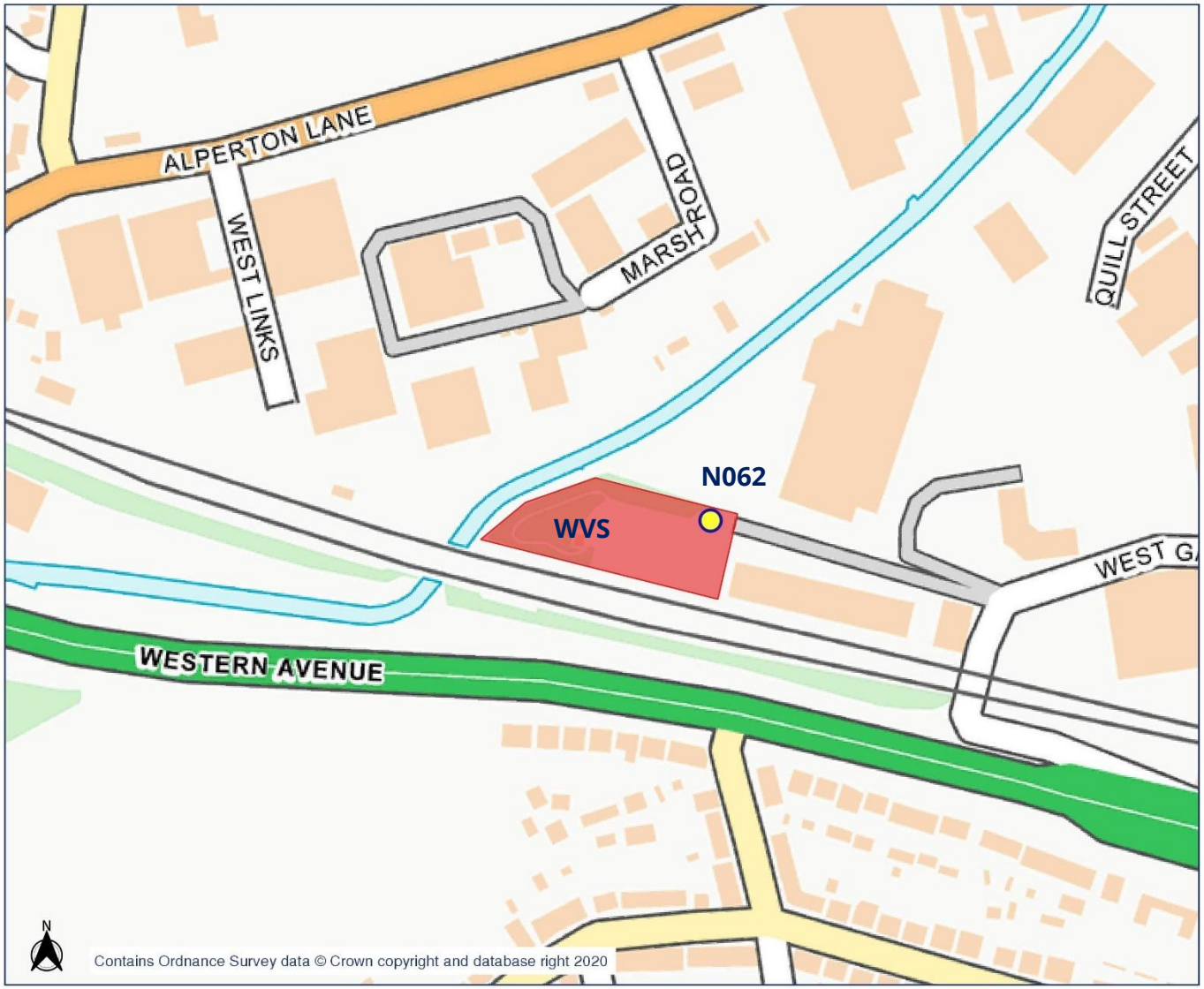
HS2 Noise and vibration monitoring plan - 1



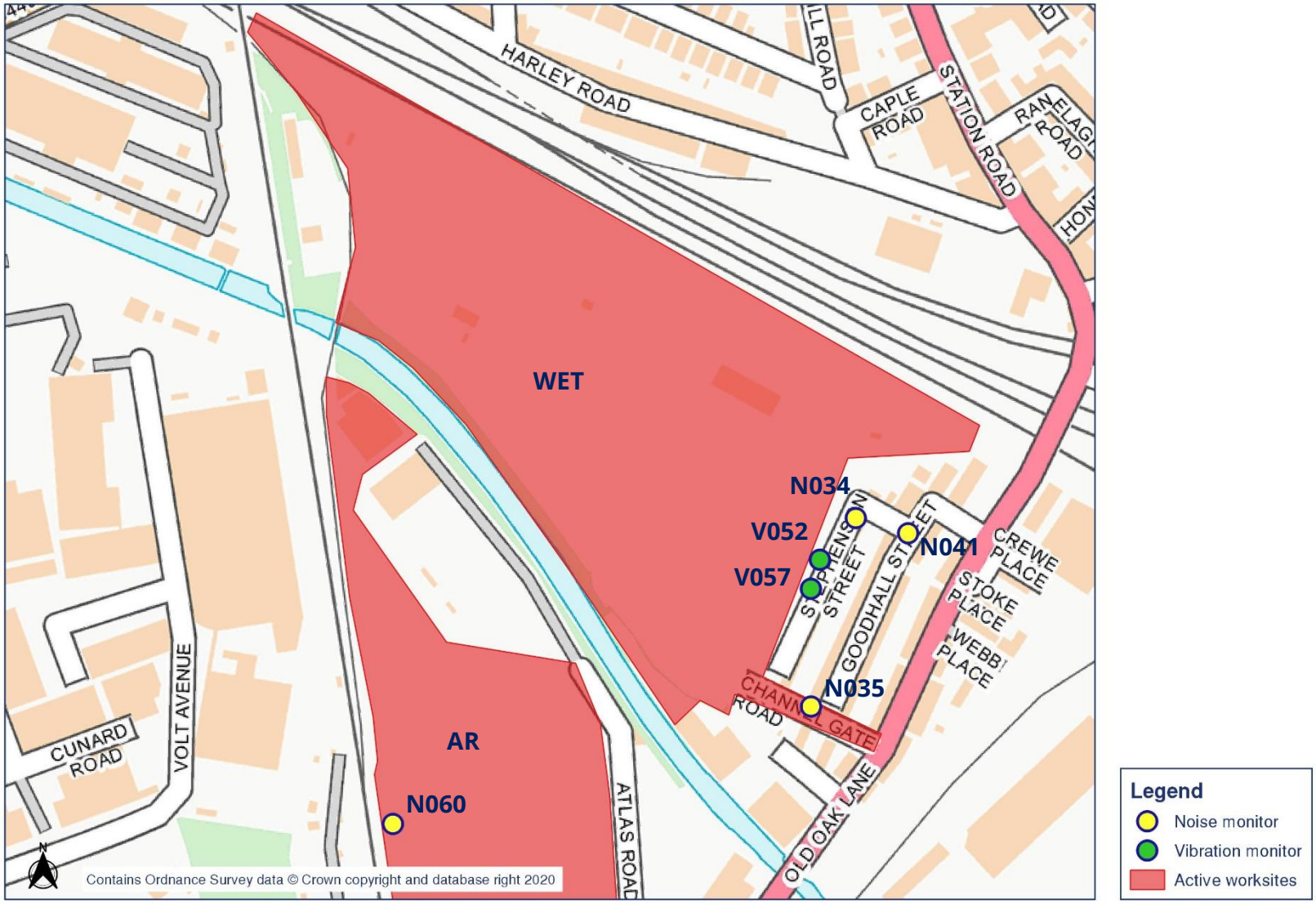
Noise and vibration monitoring plan - 2



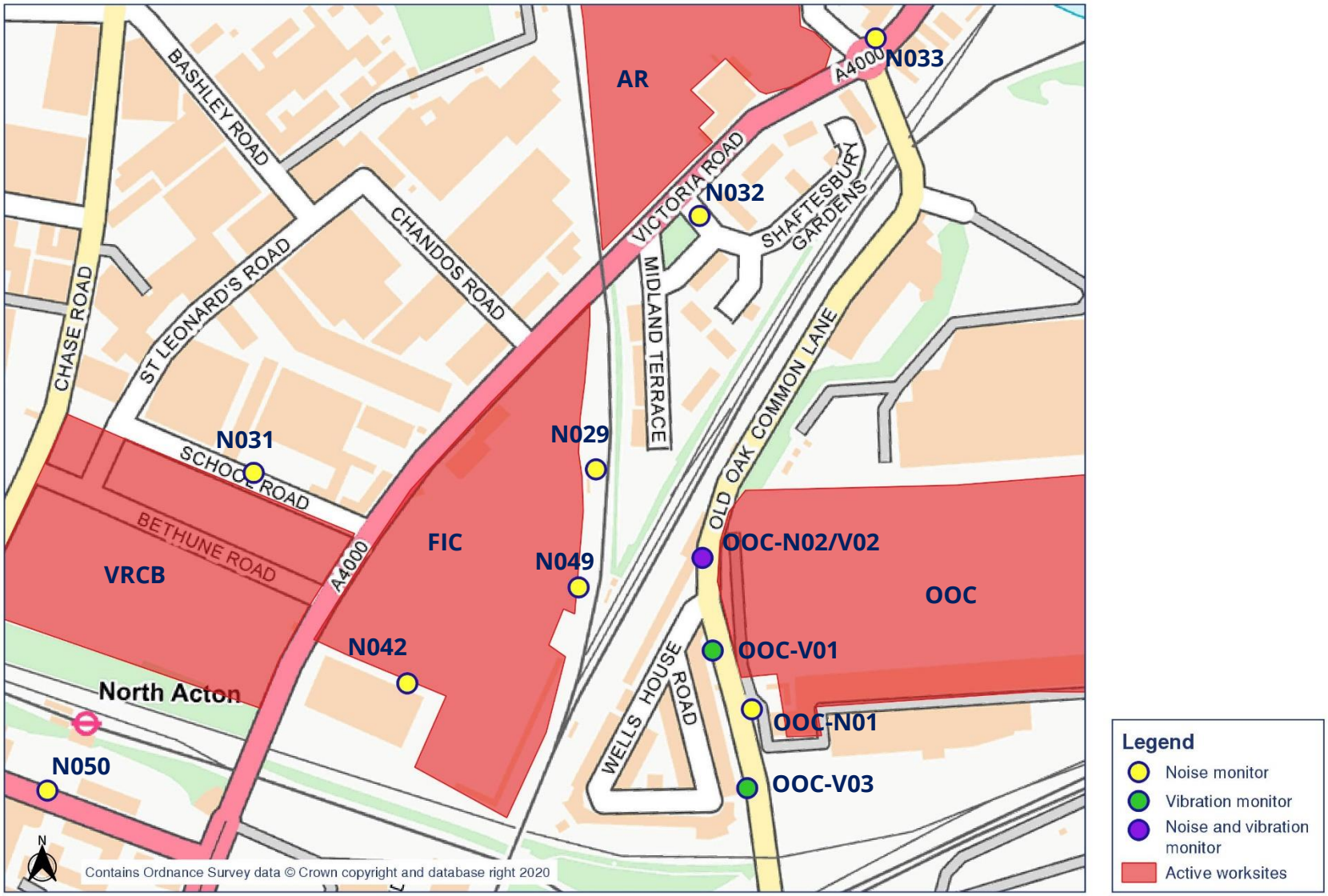
HS2 Noise and vibration monitoring plan - 3



Noise and vibration monitoring plan - 4



HS2 Noise and vibration monitoring plan - 5



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 with adversely weather affected noise levels are greyed out and have been excluded from the calculation of the $L_{Aeq,T}$ values in Table 3 of the main report.

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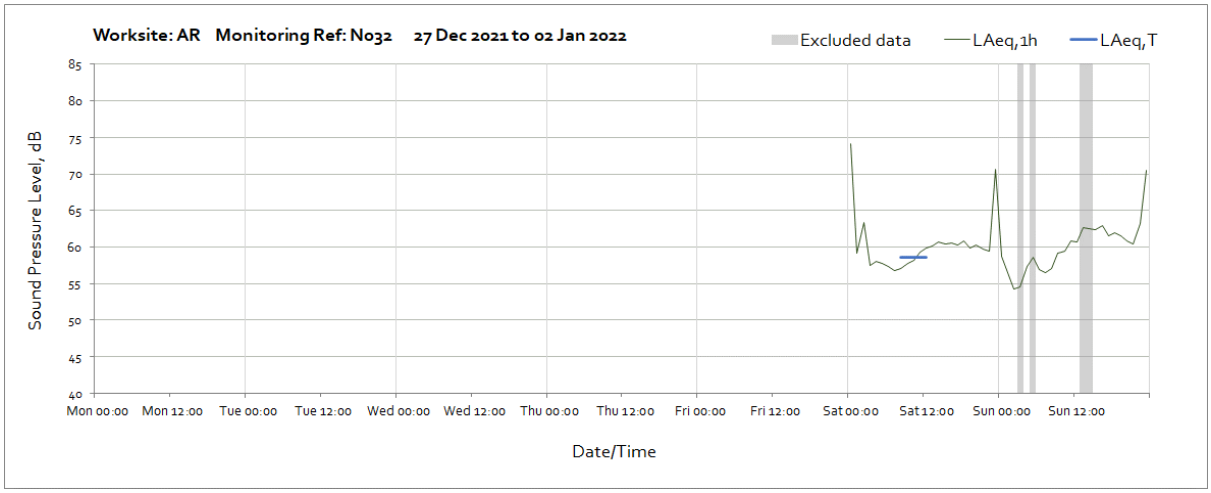
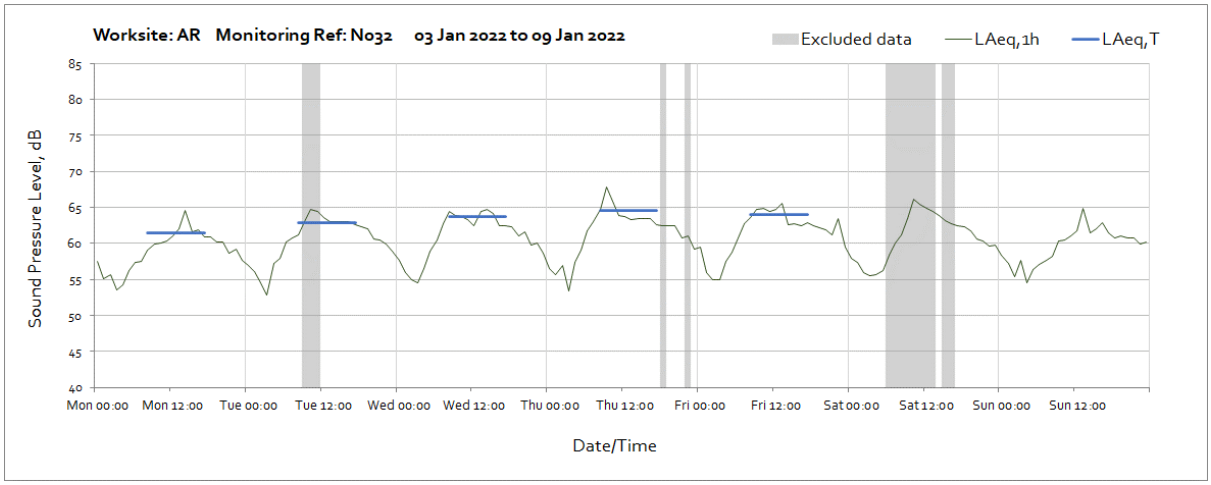
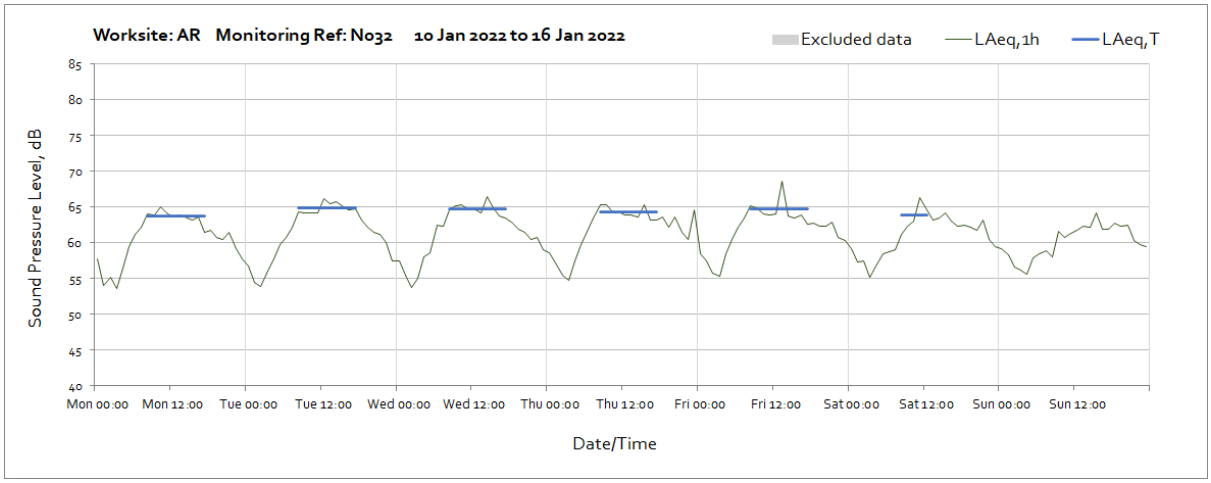


Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.

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LAeq,T
Sound Pressure Level, dB
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80
75
70
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45
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Mon 00:00
Mon 12:00
Tue 00:00
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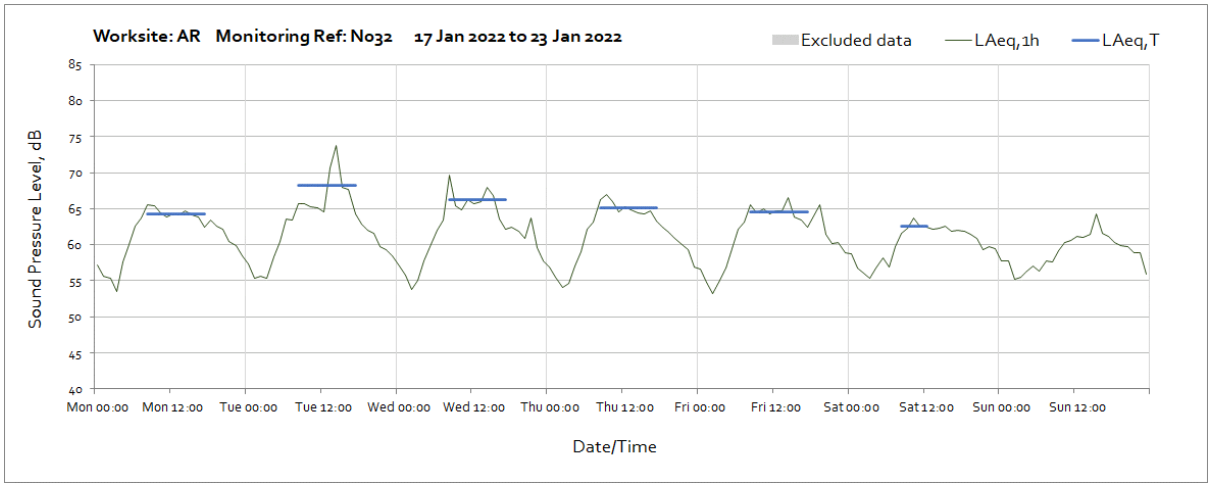
Date/Time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Sound Pressure Level, dB
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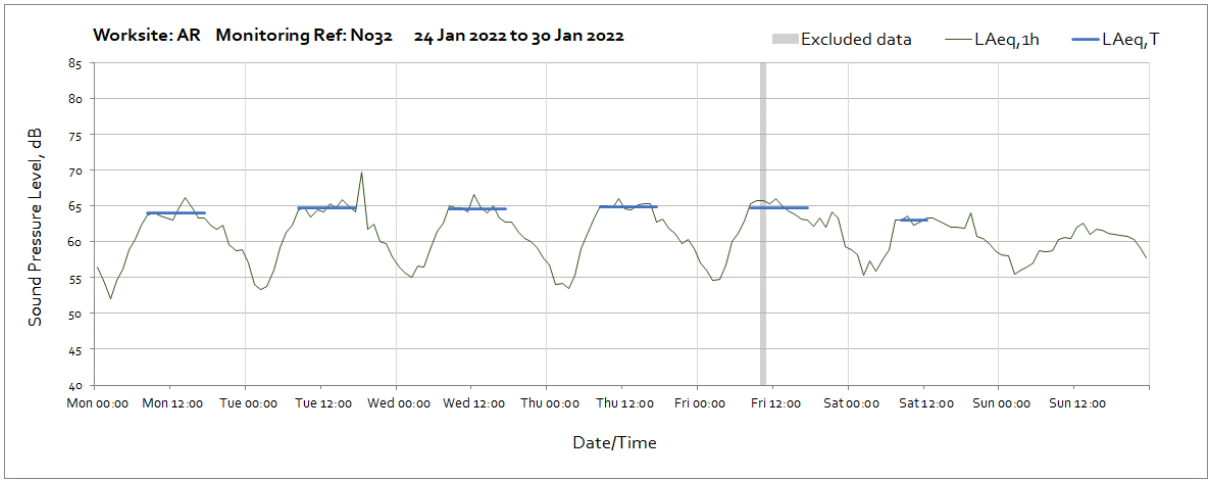
Date/Time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Sound Pressure Level, dB
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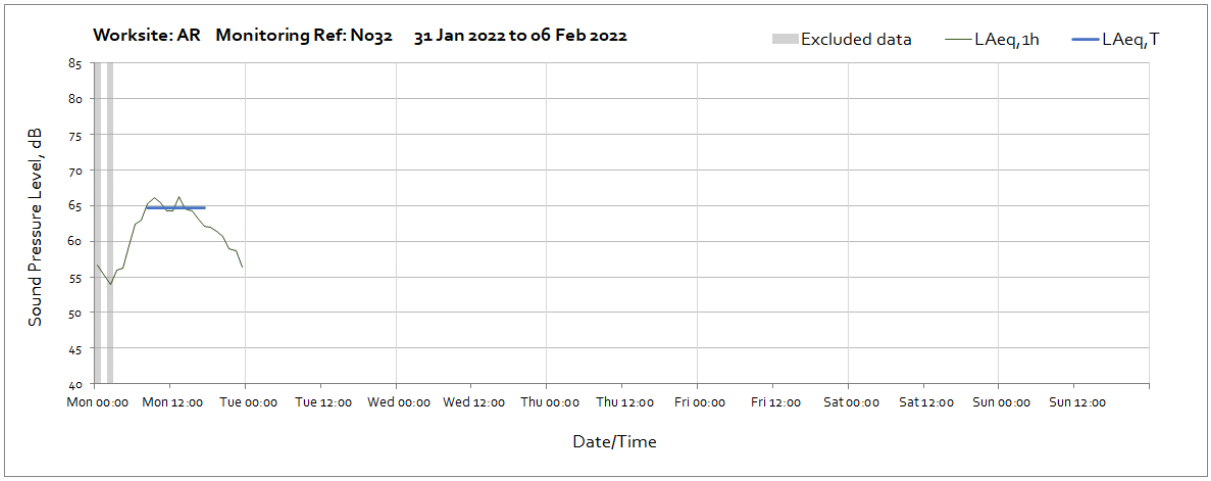

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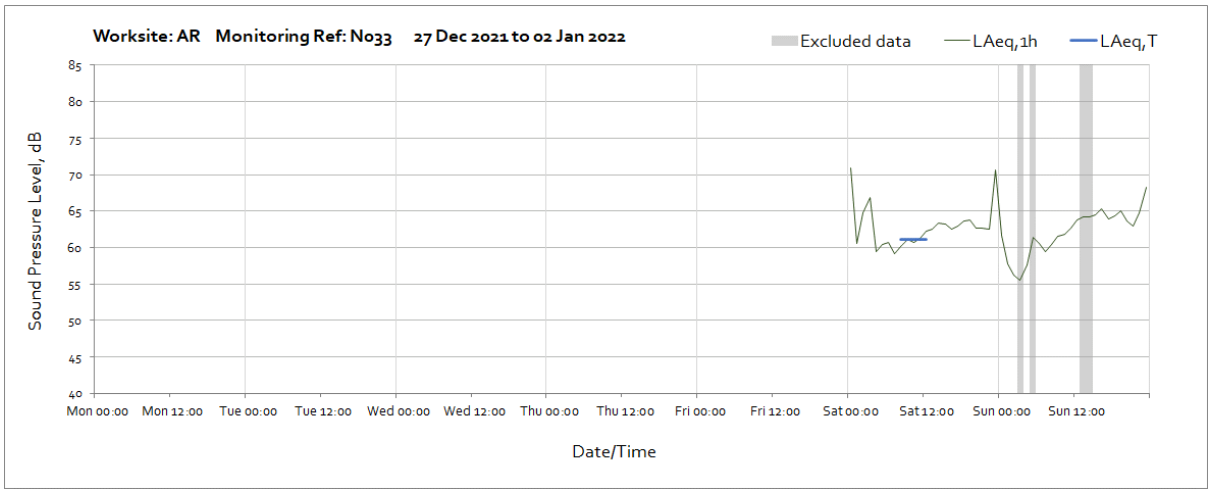

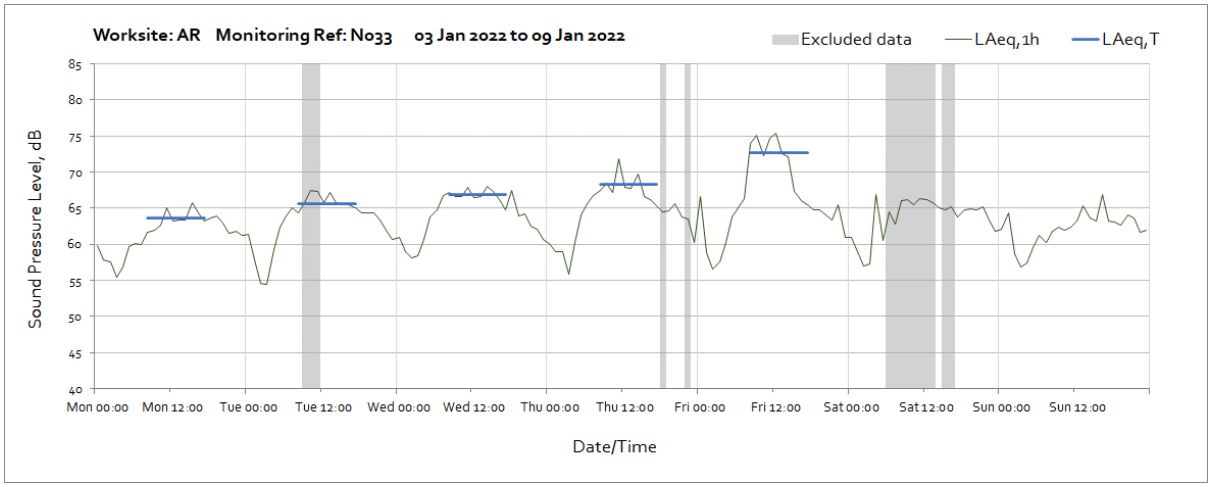

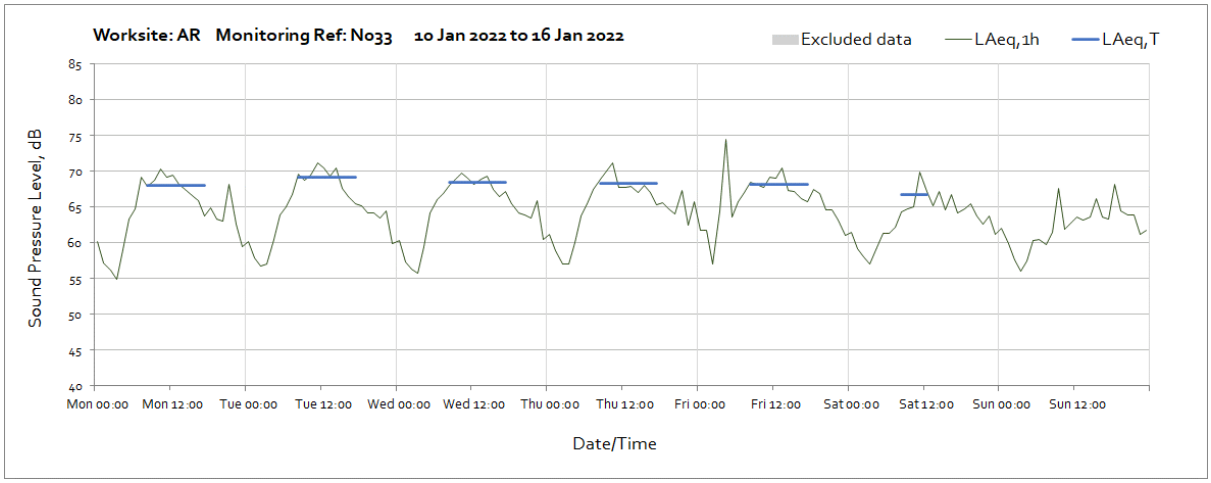
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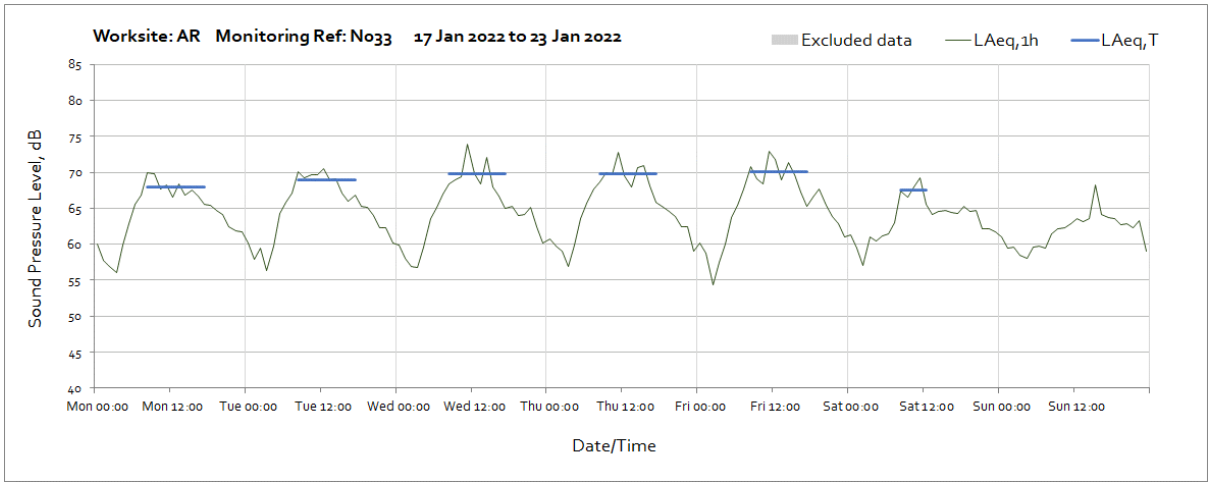
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LAeq,T
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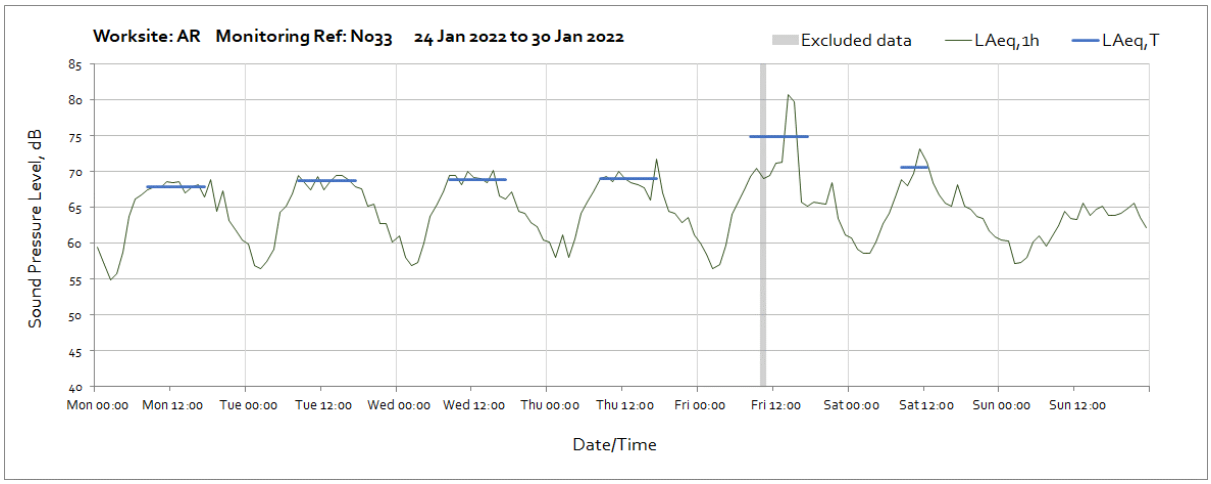
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Sound Pressure Level, dB
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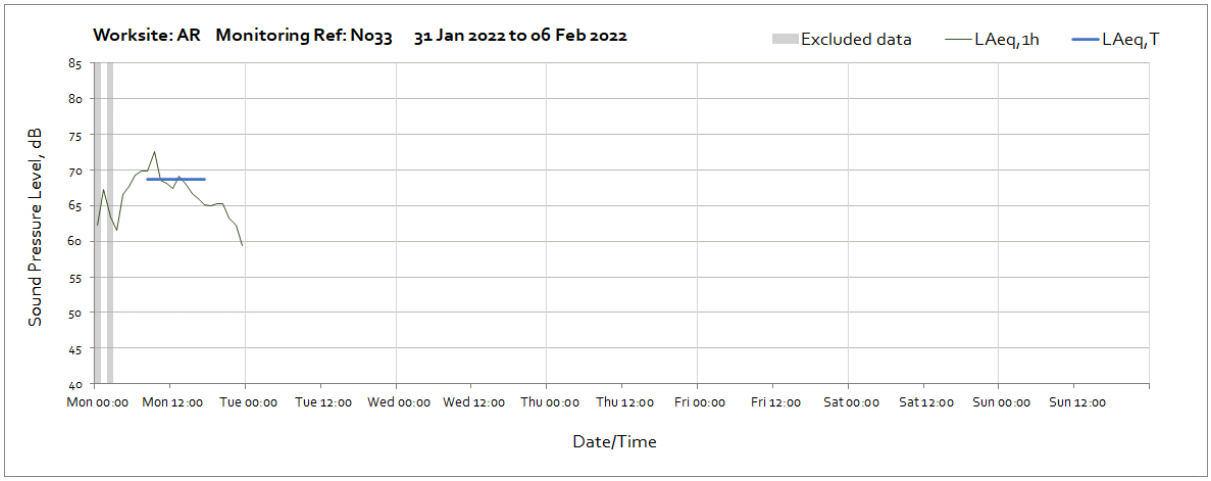

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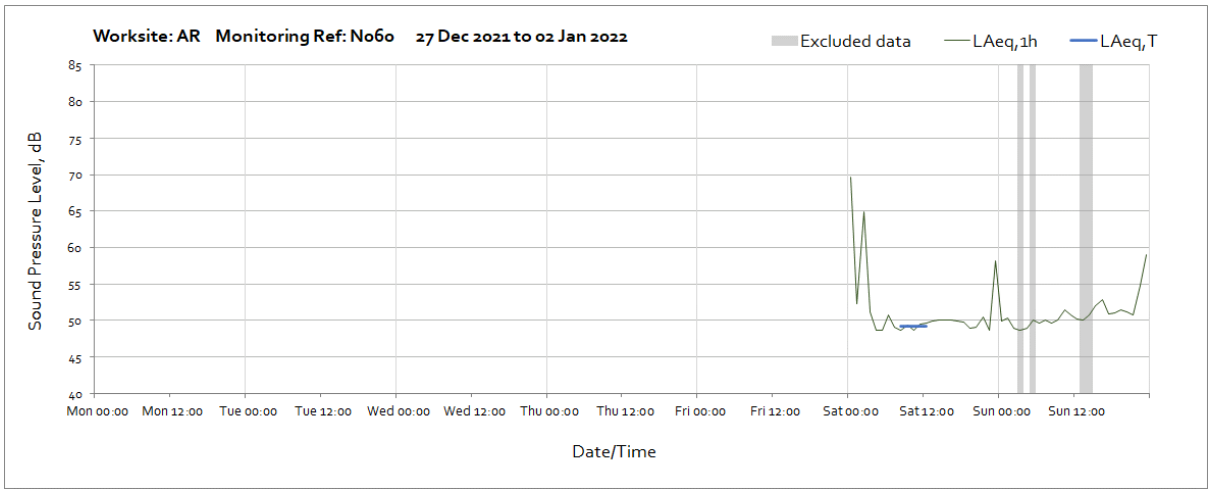
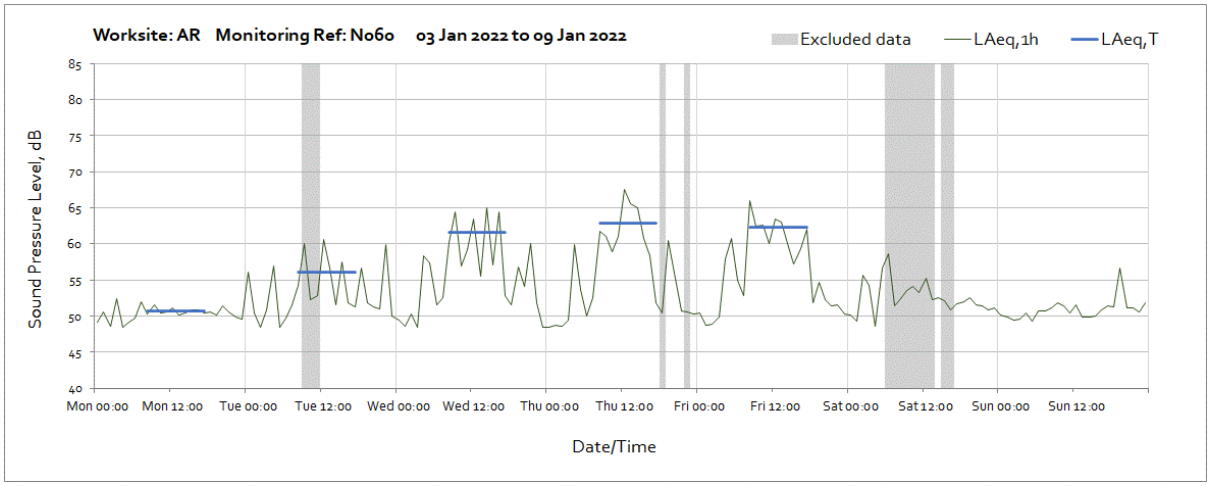
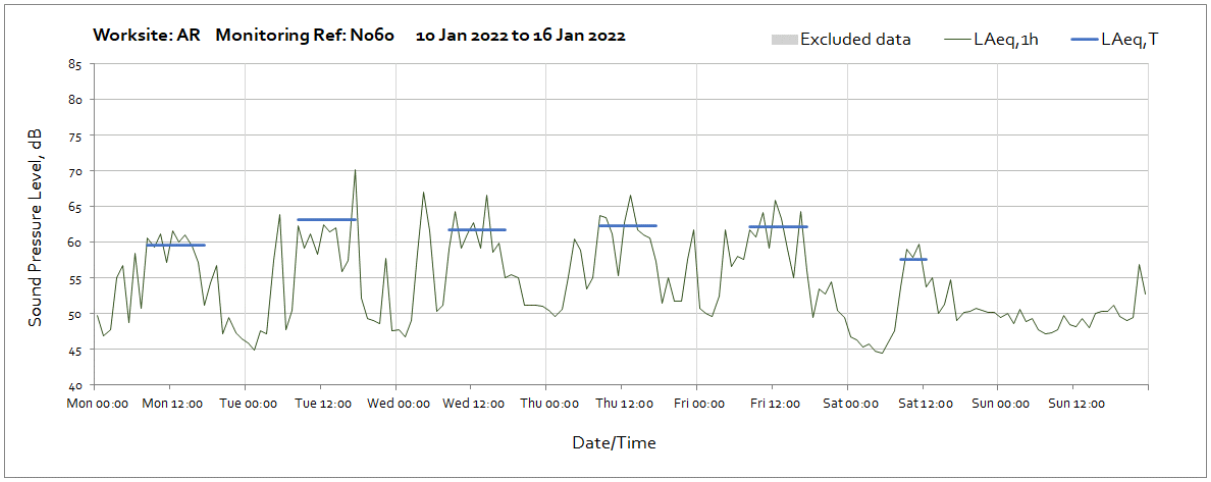


Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.

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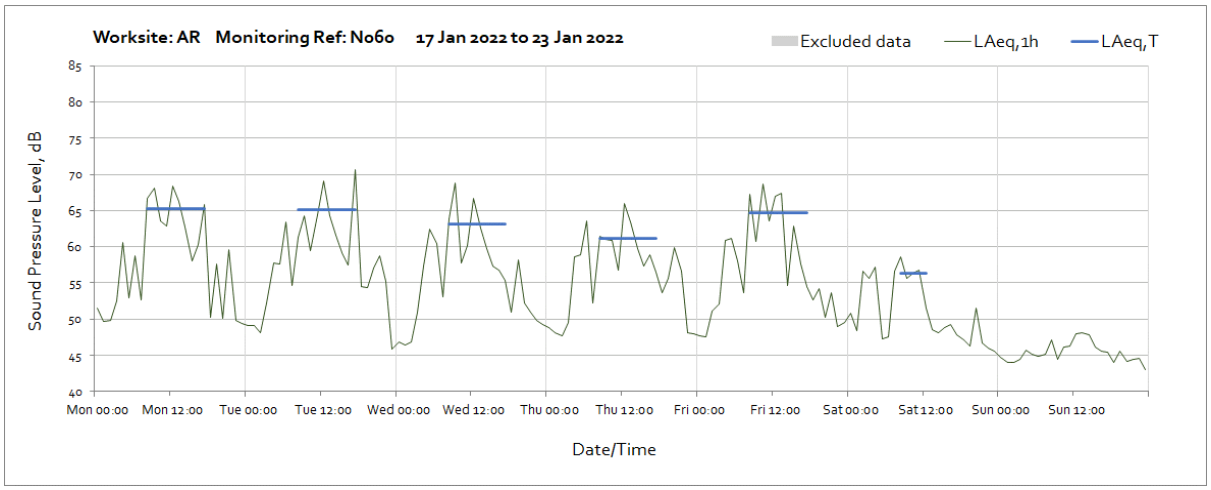
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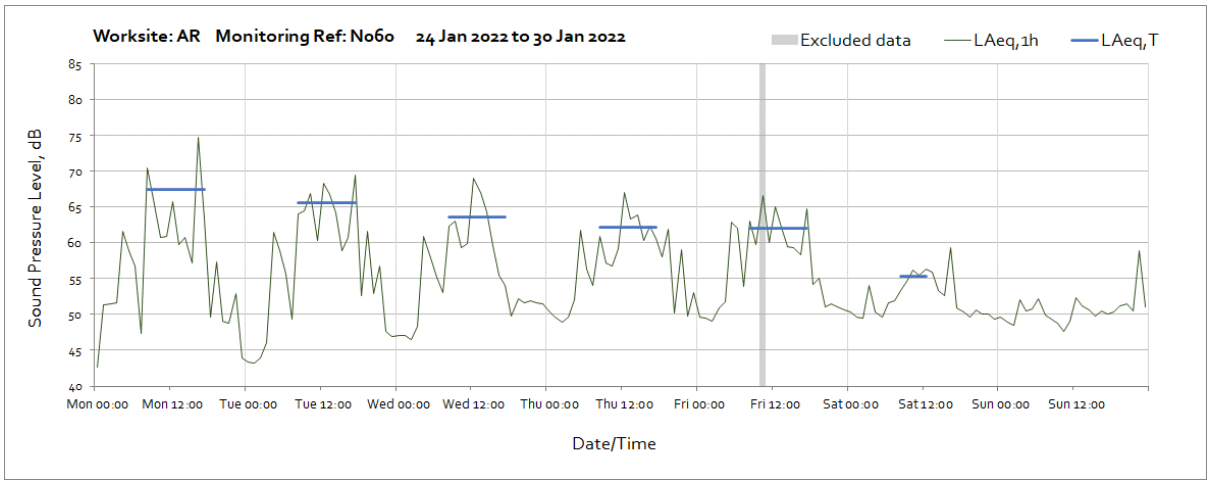
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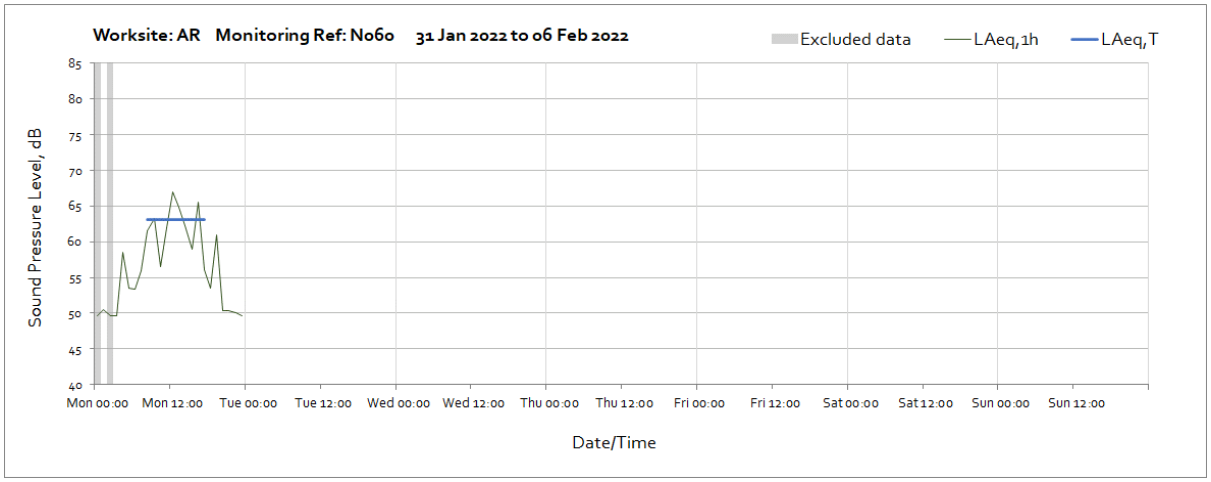
Date/Time



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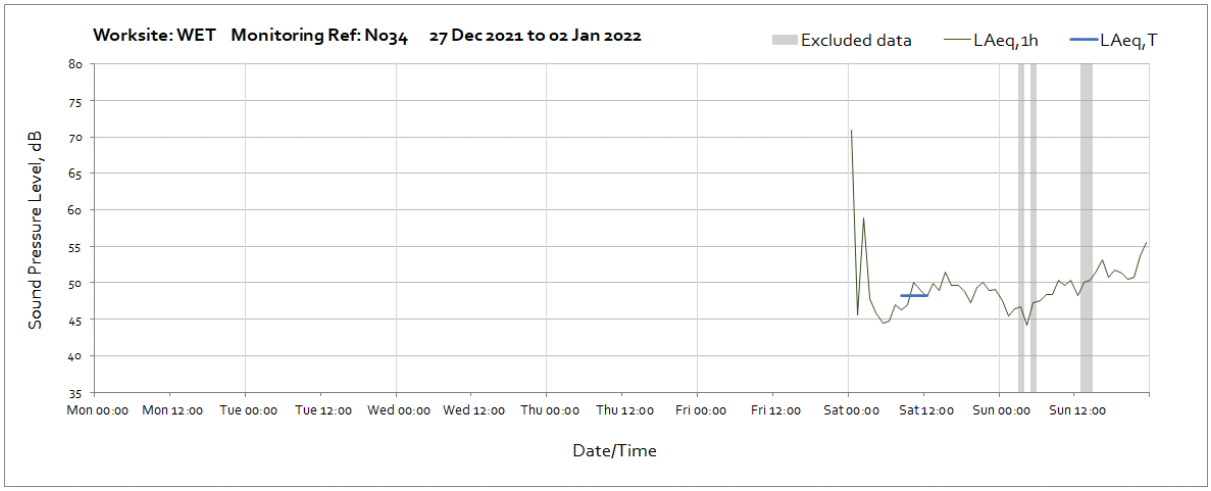
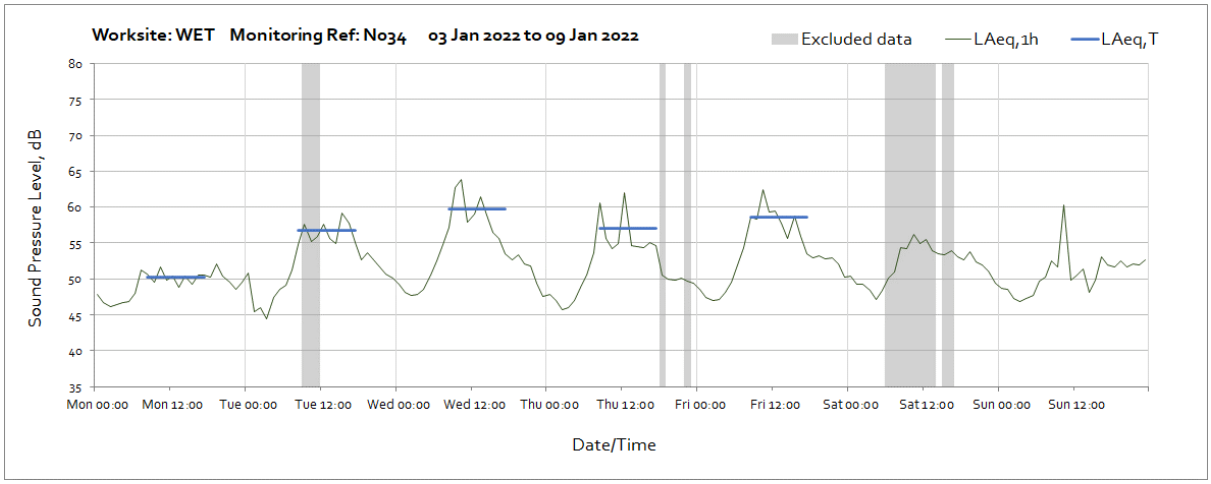
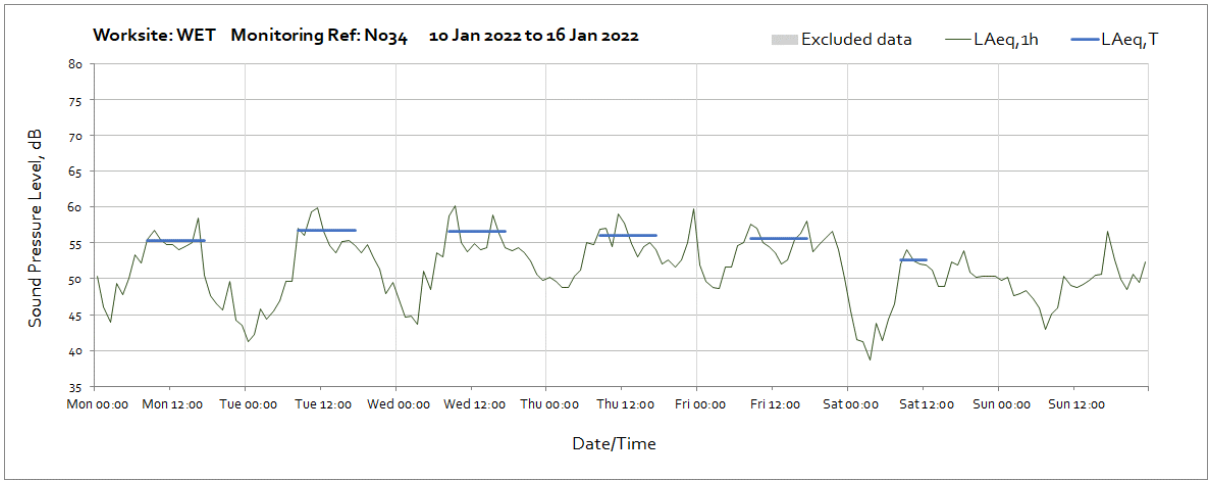


Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.

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LAeq,T
Sound Pressure Level, dB
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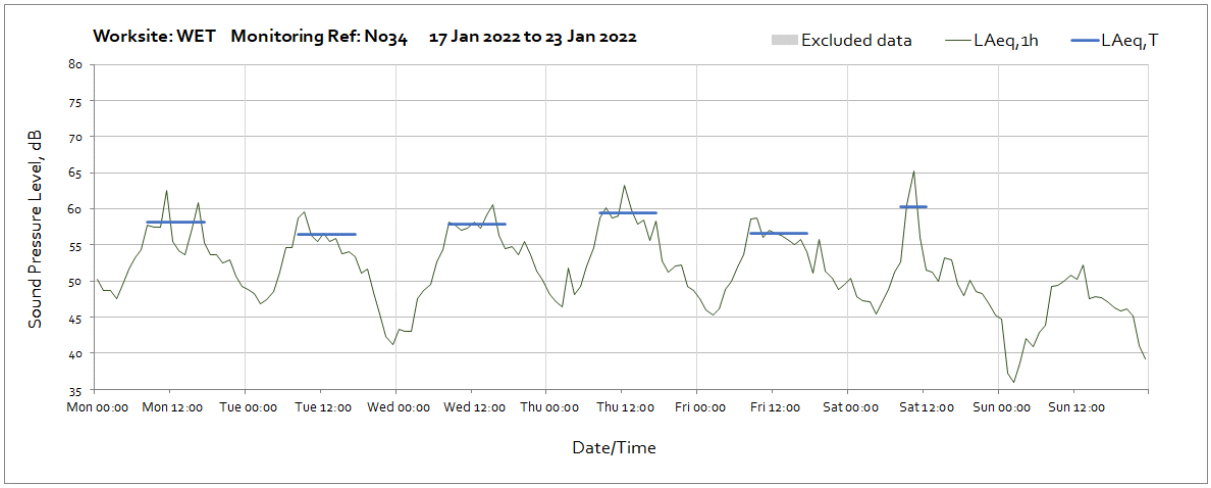
Sun 12:00
Date/Time


Worksite: WET Monitoring Ref: No34 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
55
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45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
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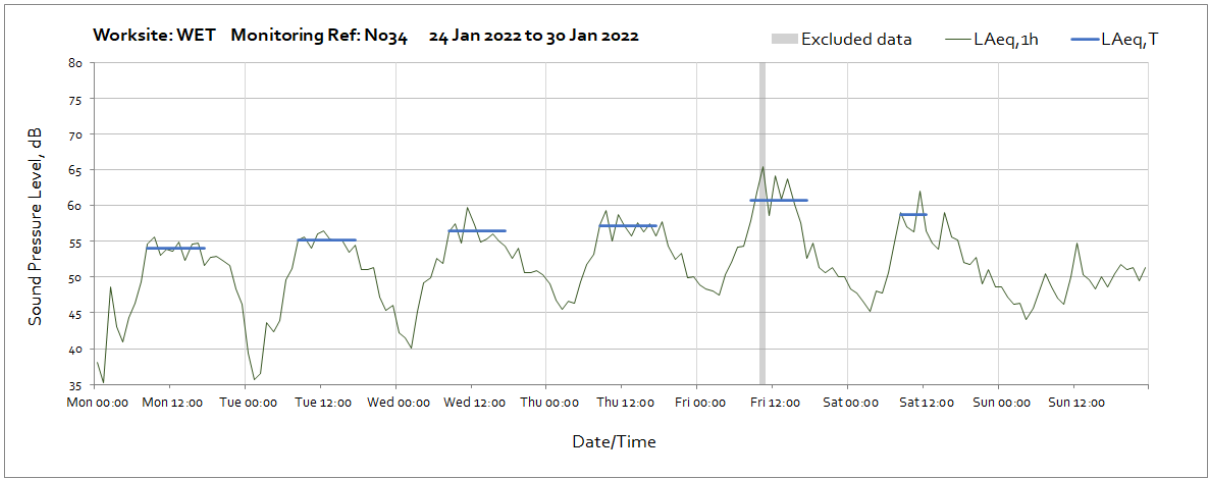
Date/Time


Worksite: WET Monitoring Ref: No34 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
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50
45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
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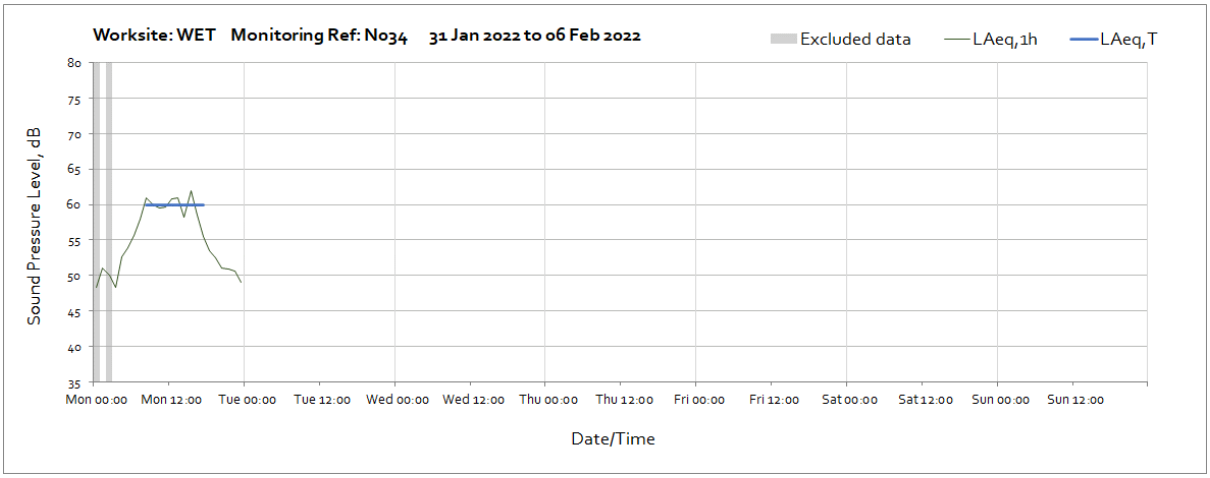
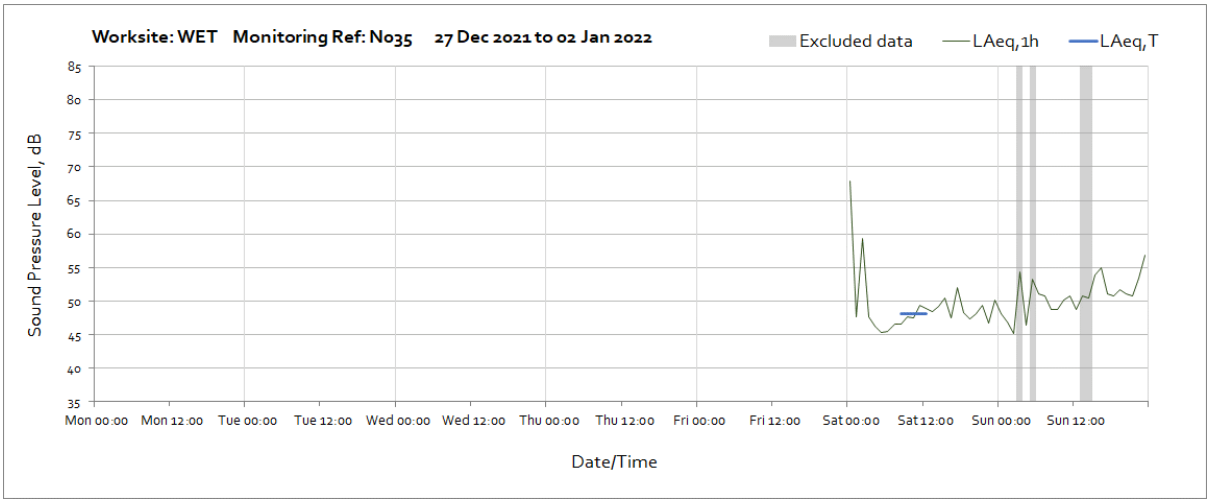
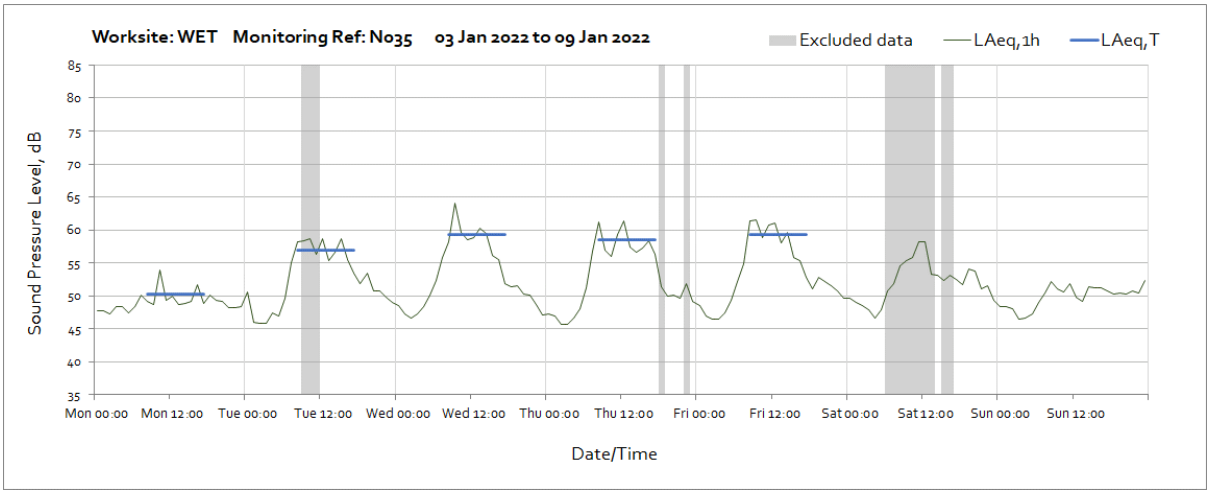
Sun 12:00
Date/Time

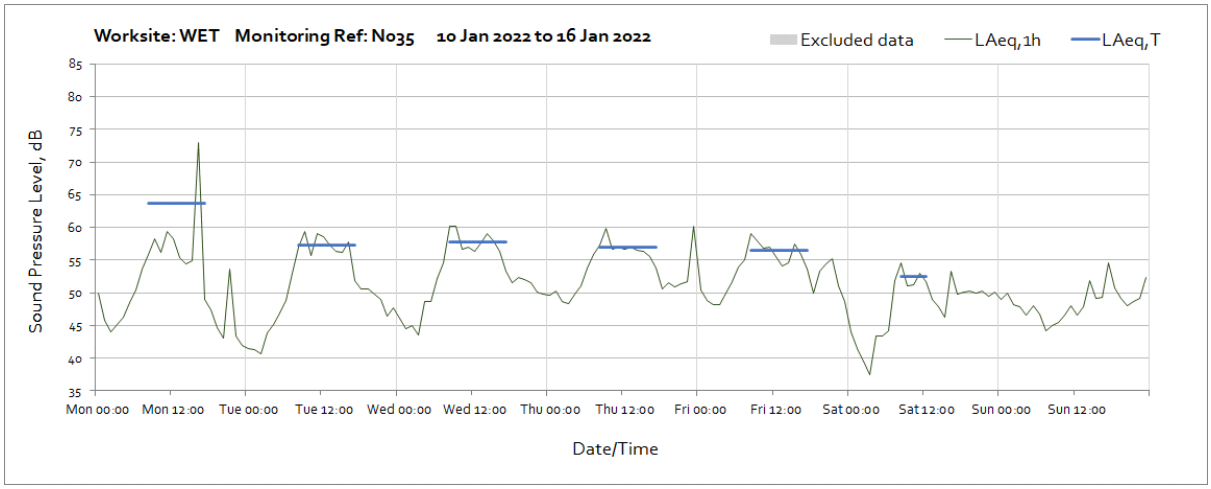


Worksite: Willesden Euro Terminal (WET) – Monitoring Ref: N035



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: WET Monitoring Ref: No35 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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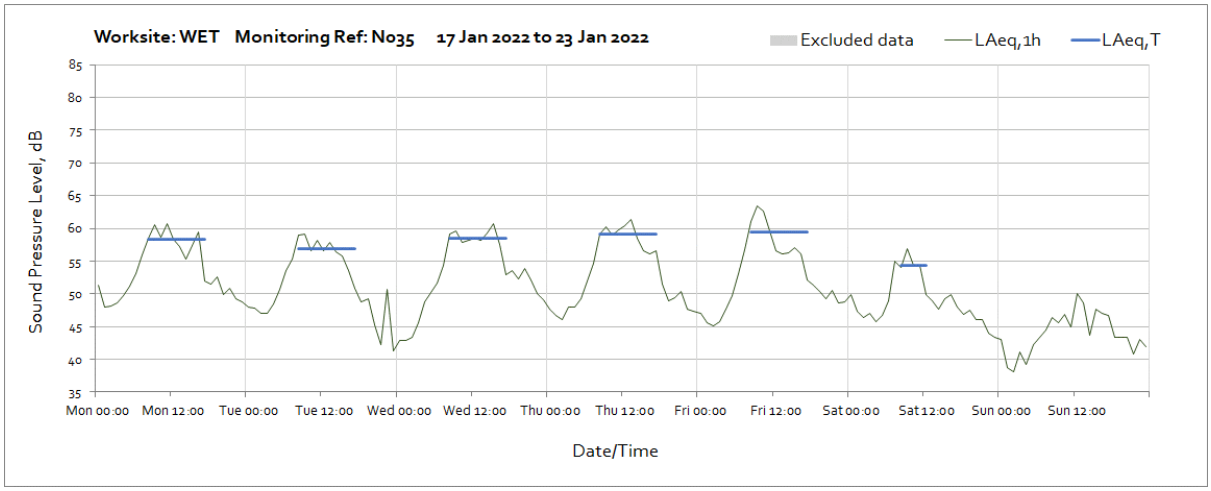
Sun 00:00
Sun 12:00
Date/Time


Worksite: WET Monitoring Ref: No35 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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75
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65
60
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50
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Mon 00:00
Mon 12:00
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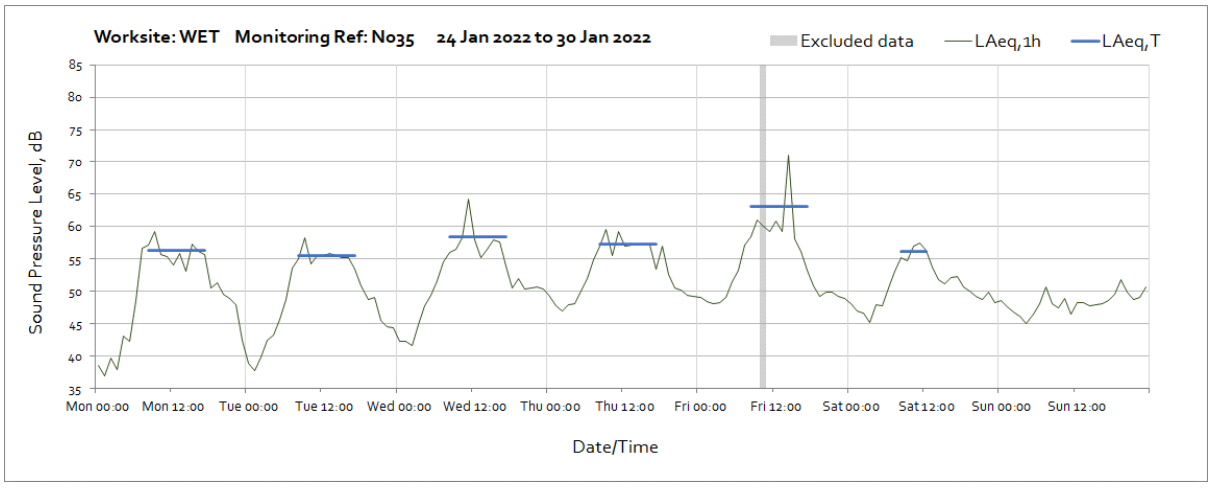
Date/Time


Worksite: WET Monitoring Ref: No35 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
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40
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Mon 00:00
Mon 12:00
Tue 00:00
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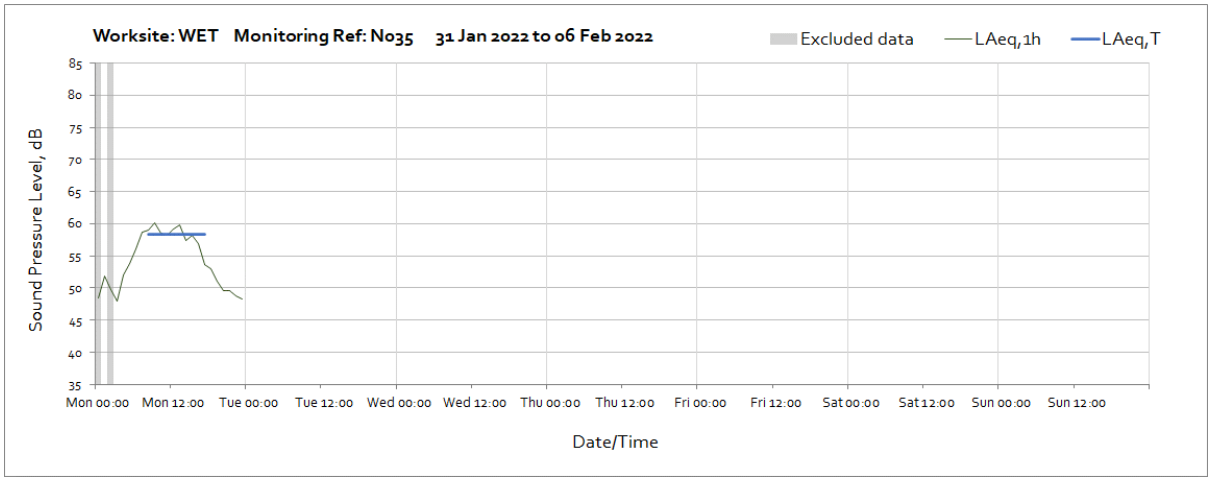
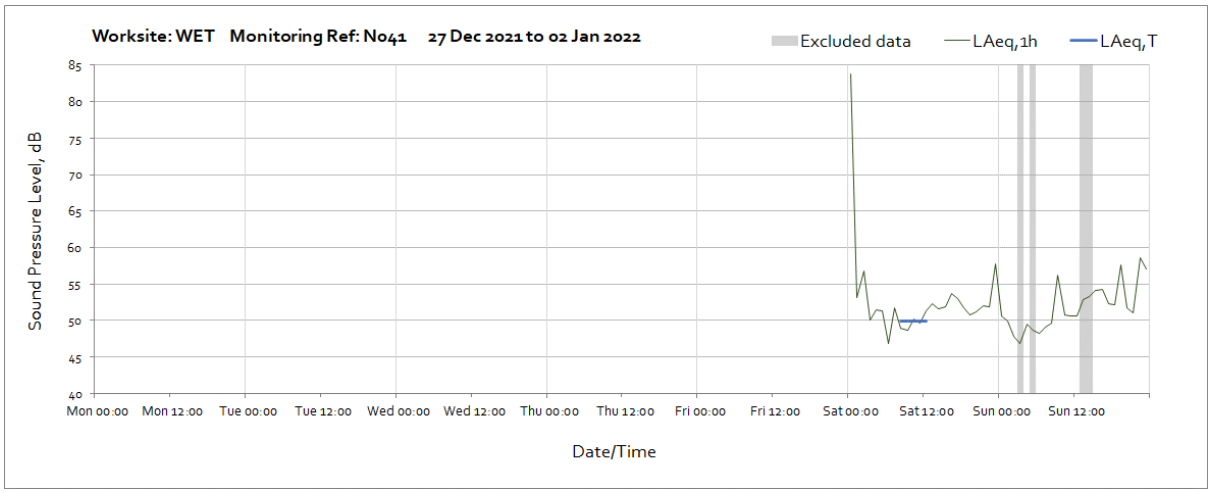
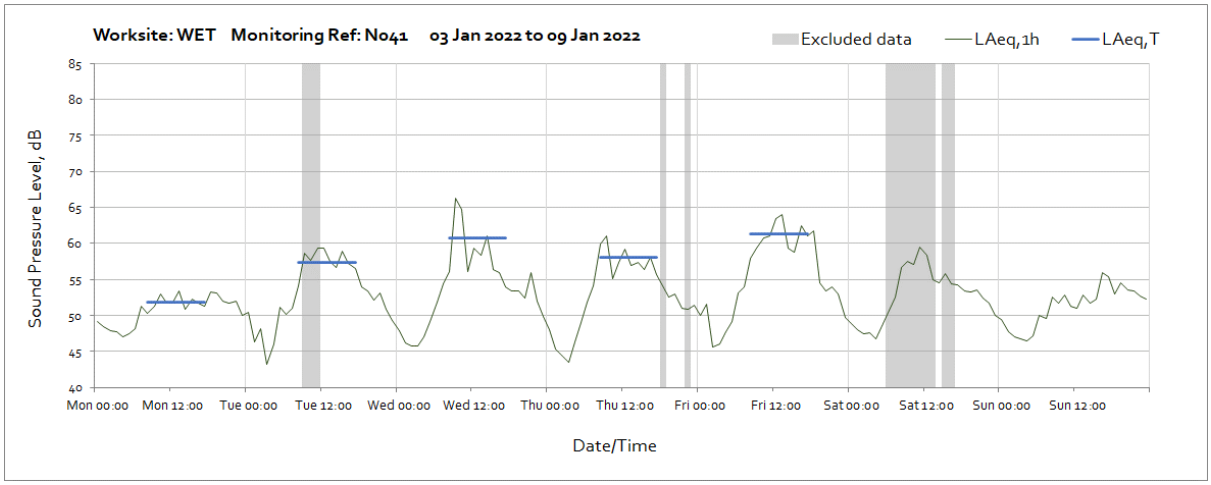
Date/Time

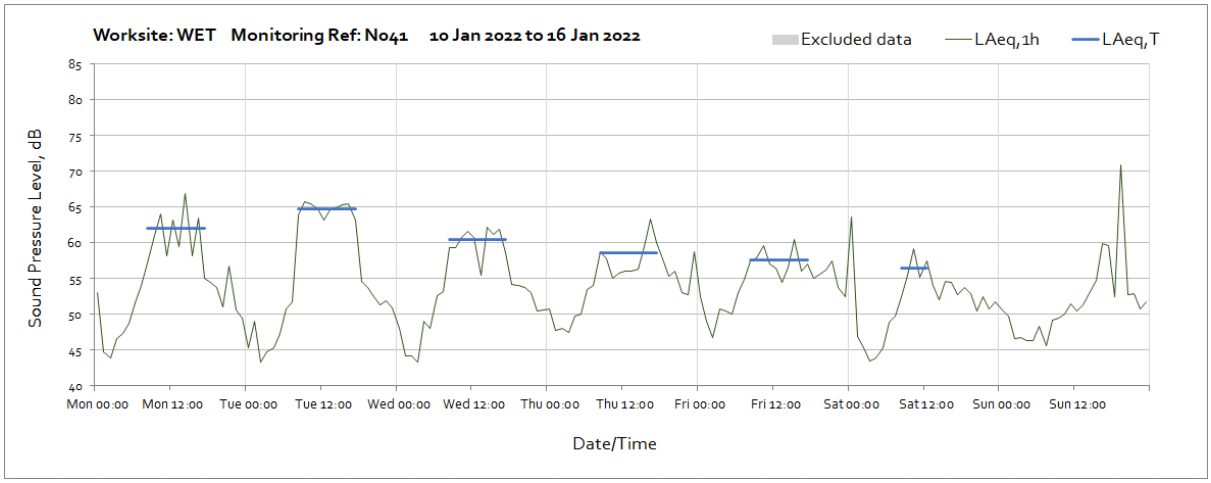


Worksite: Willesden Euro Terminal (WET) – Monitoring Ref: N041



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: WET Monitoring Ref: No41 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
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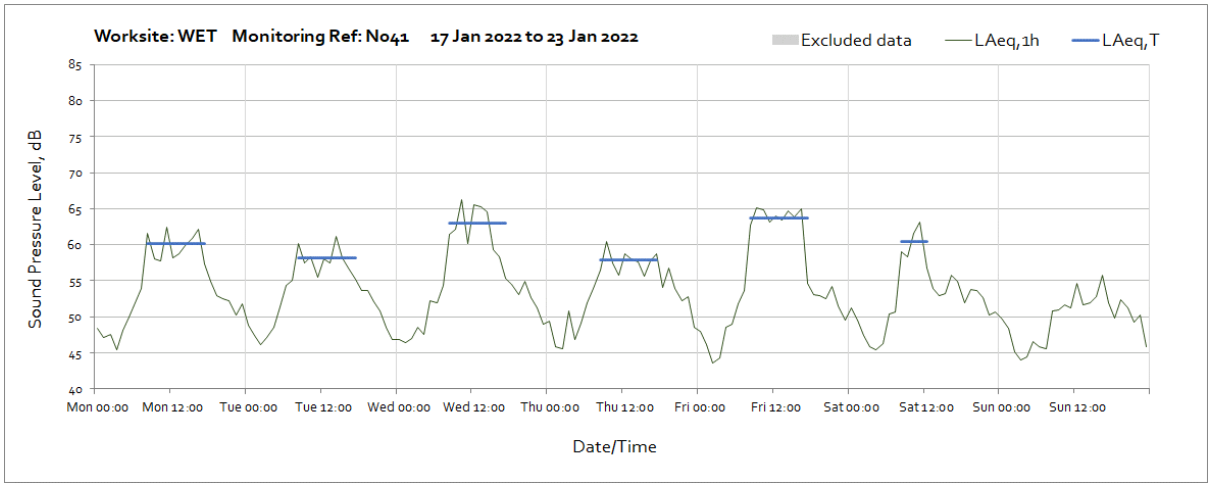
Sun 12:00
Date/Time


Worksite: WET Monitoring Ref: No41 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
Mon 12:00
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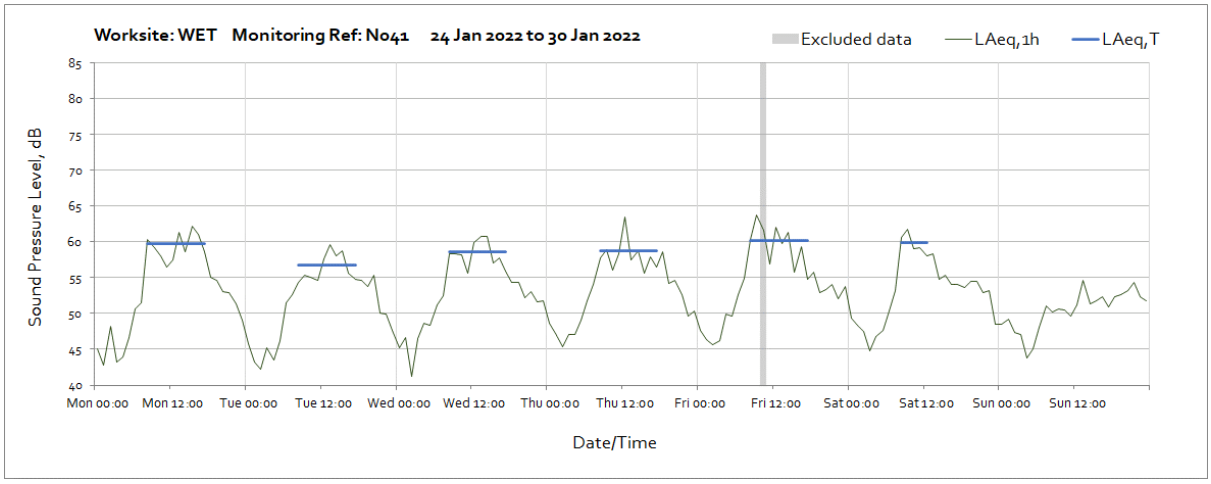
Date/Time


Worksite: WET Monitoring Ref: No41 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
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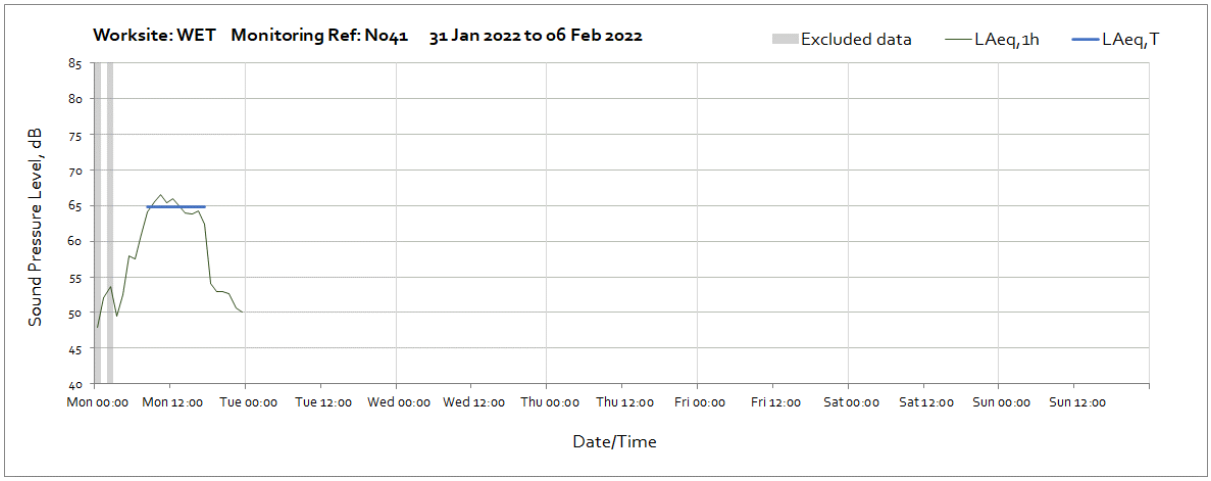
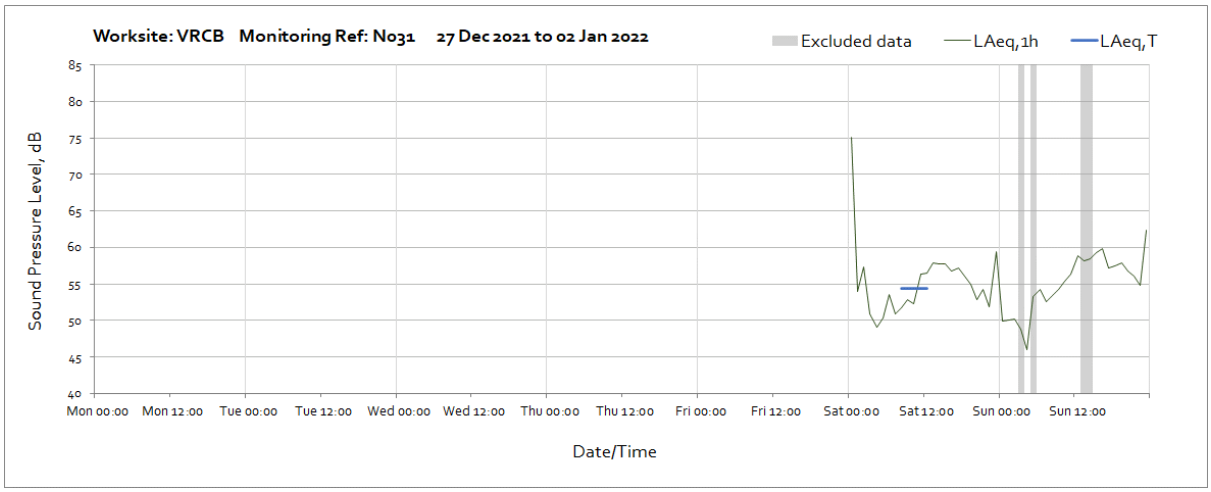
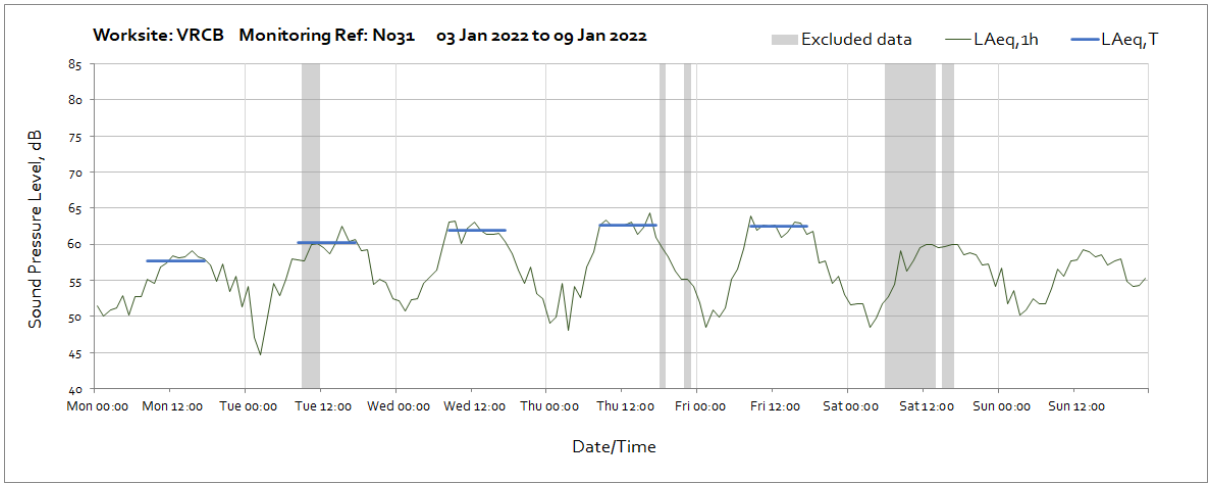
Date/Time

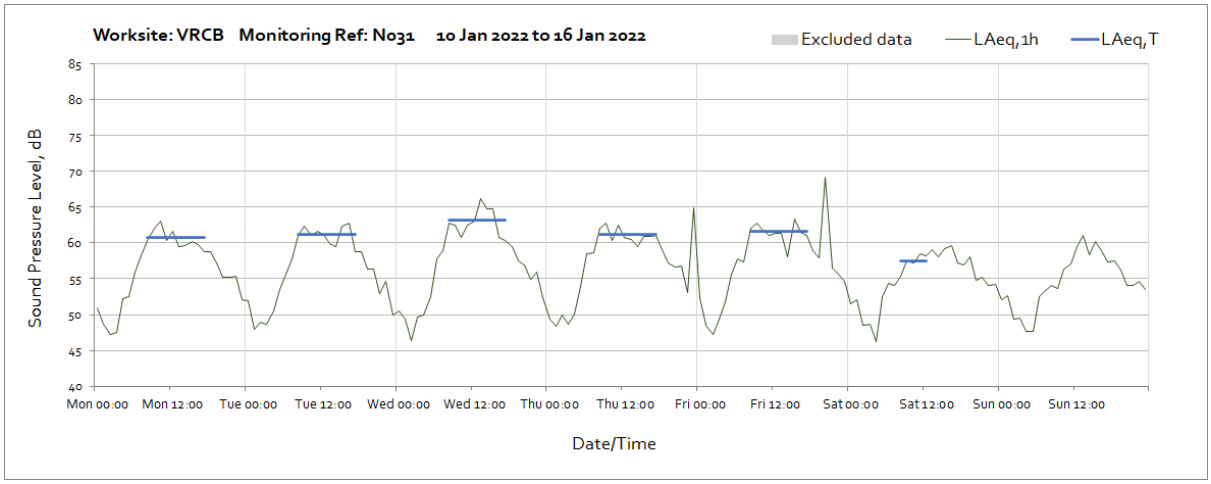


Worksite: Victoria Road Crossover Box (VRCB) – Monitoring Ref: N031



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: VRCB Monitoring Ref: No31 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
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50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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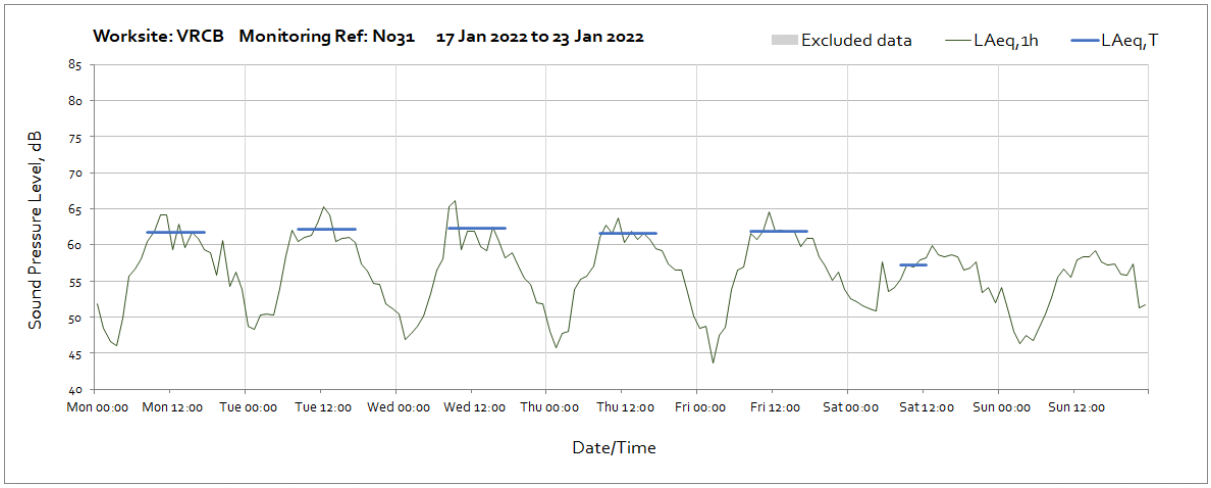
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: VRCB Monitoring Ref: No31 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
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Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
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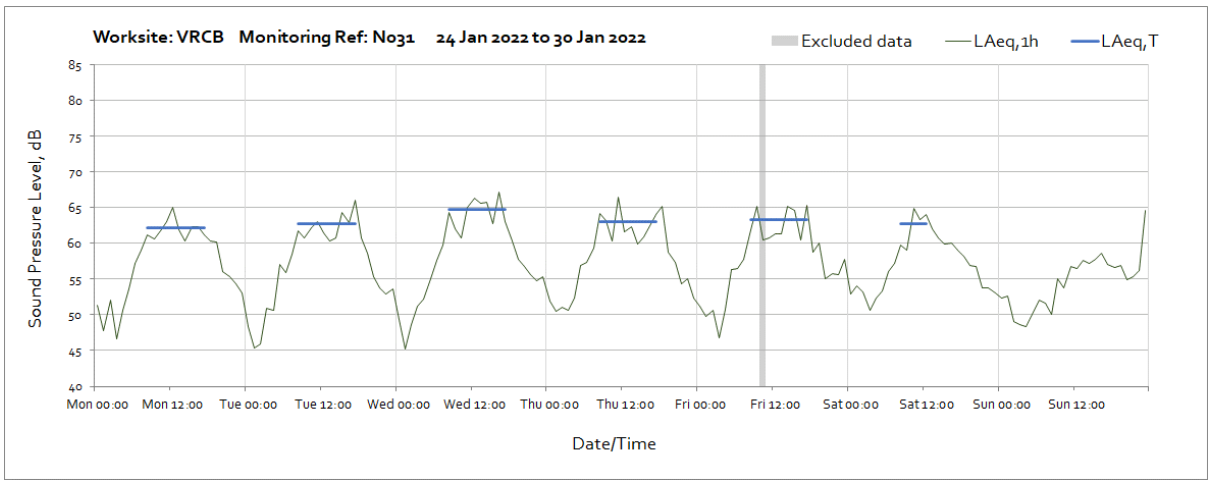
Date/Time


Worksite: VRCB Monitoring Ref: No31 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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65
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Mon 00:00
Mon 12:00
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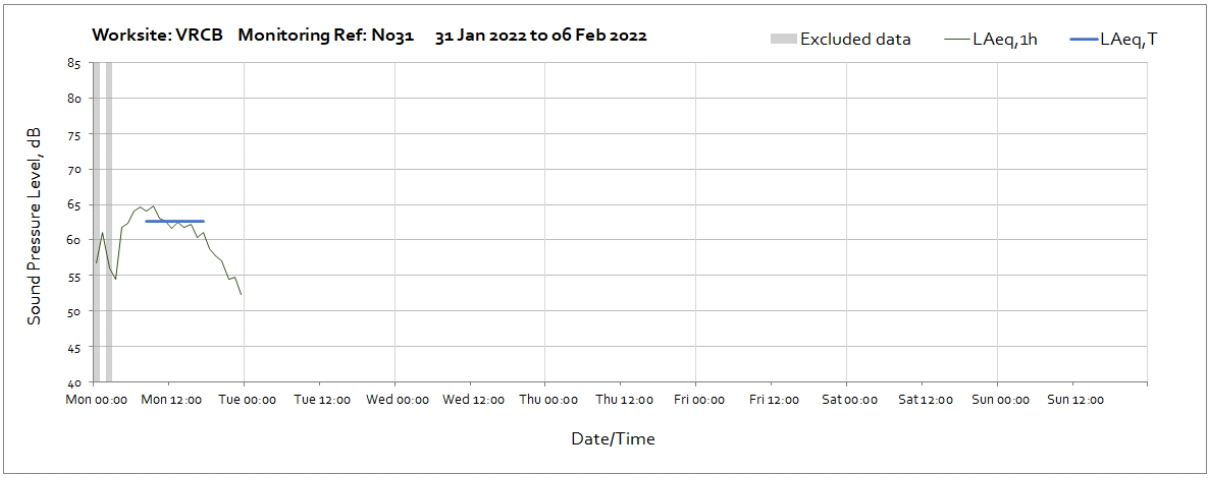
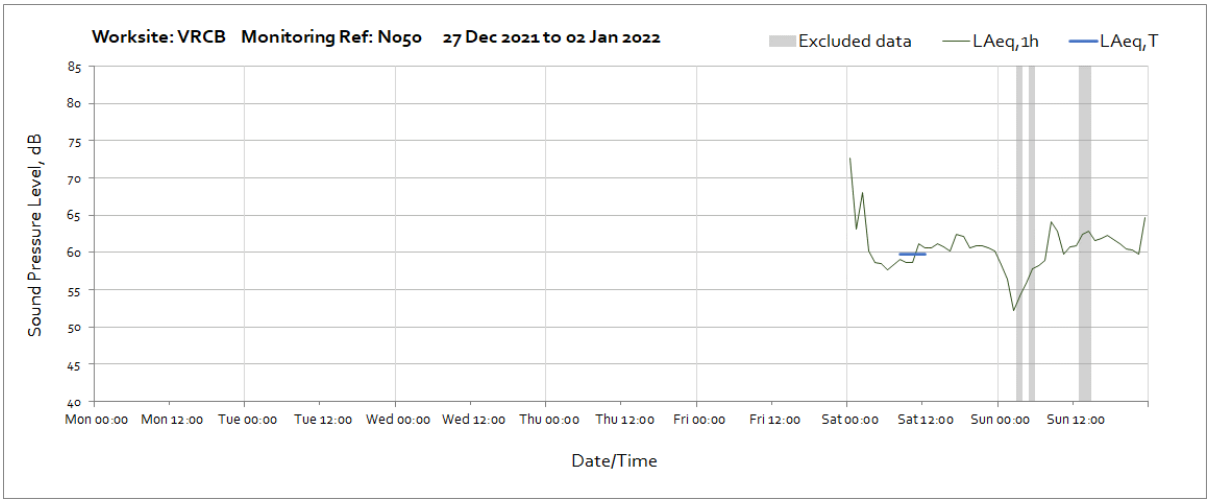
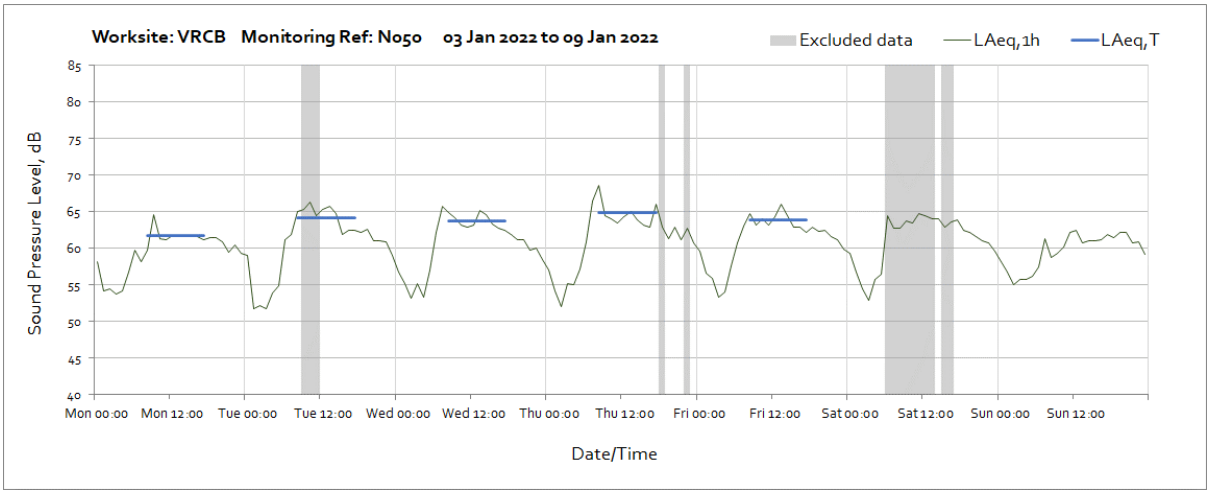
Date/Time

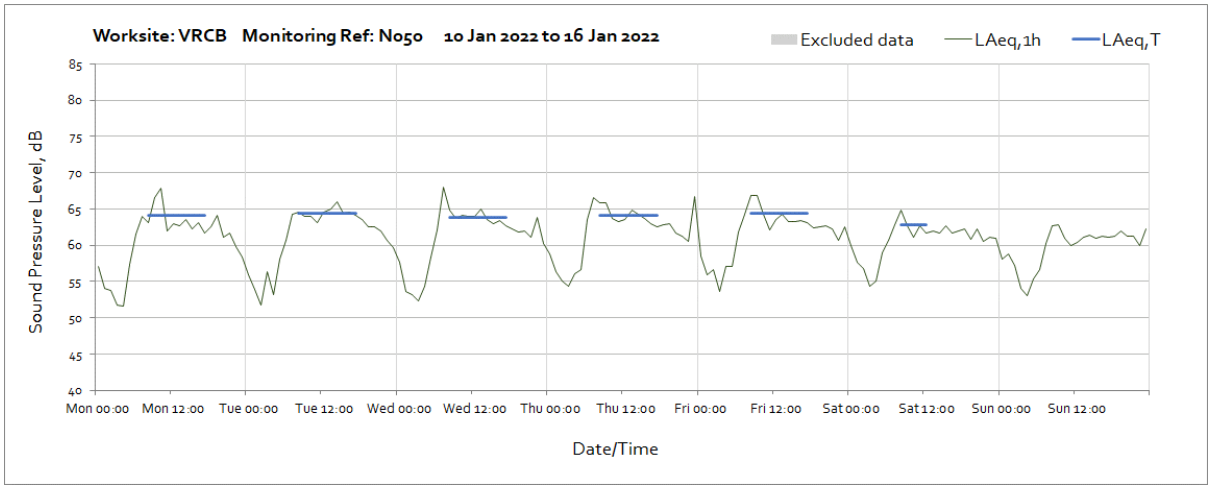


Worksite: Victoria Road Crossover Box (VRCB) – Monitoring Ref: N050



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: VRCB Monitoring Ref: No50 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
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60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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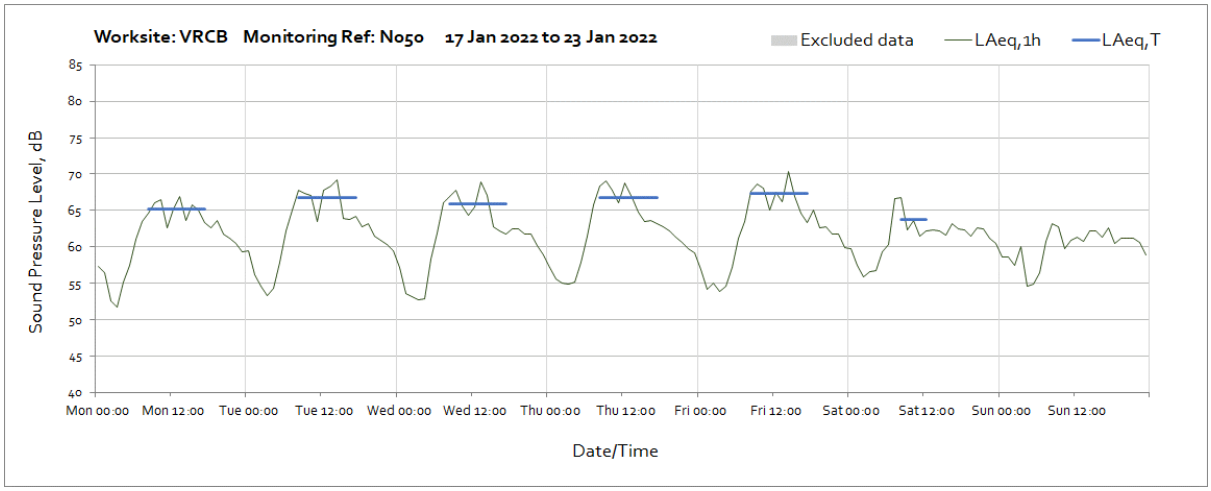
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: VRCB Monitoring Ref: No50 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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75
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60
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Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
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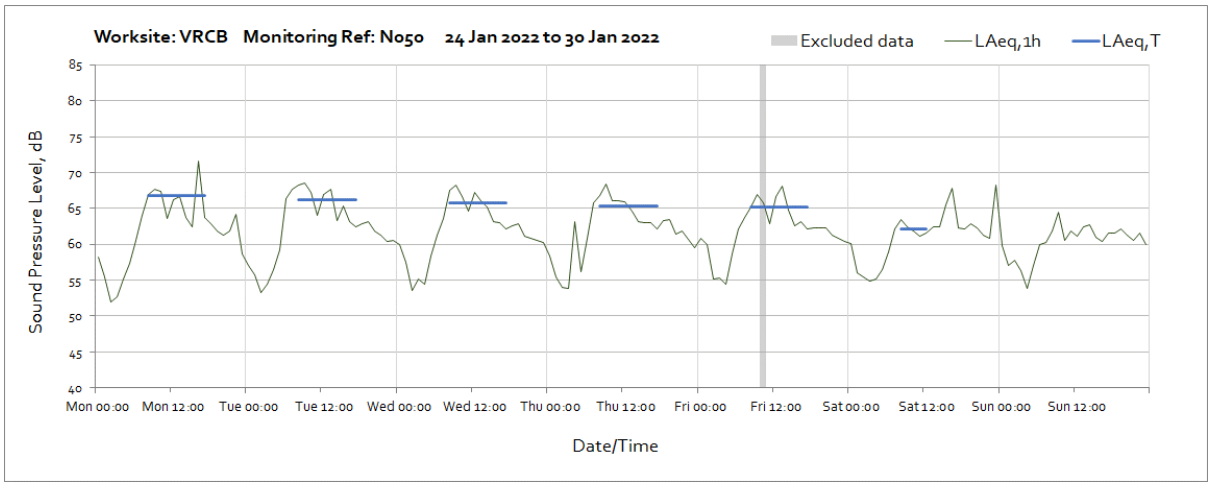
Sun 00:00
Sun 12:00
Date/Time


Worksite: VRCB Monitoring Ref: No50 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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65
60
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50
45
40
Mon 00:00
Mon 12:00
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Tue 12:00
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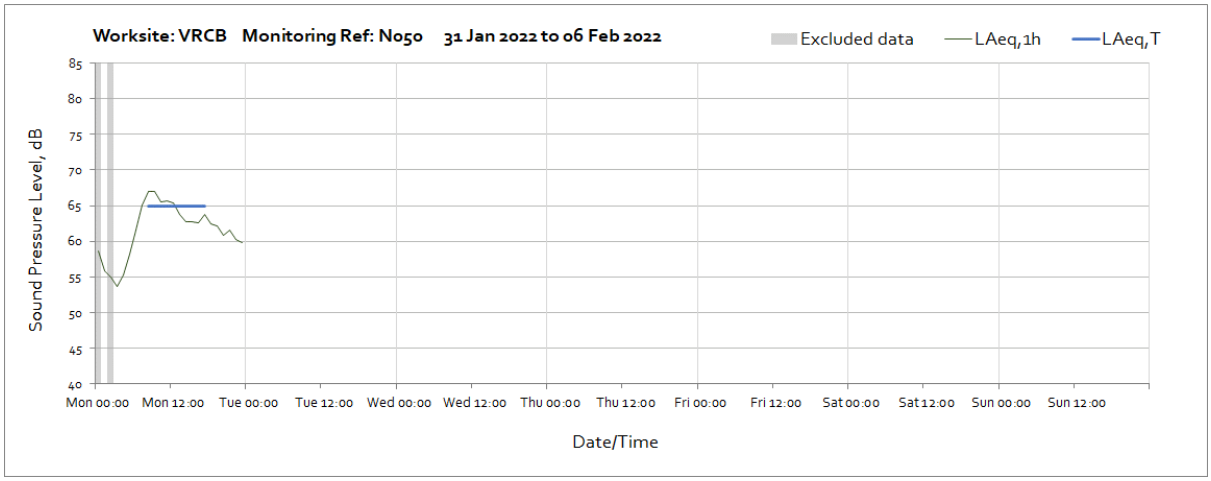
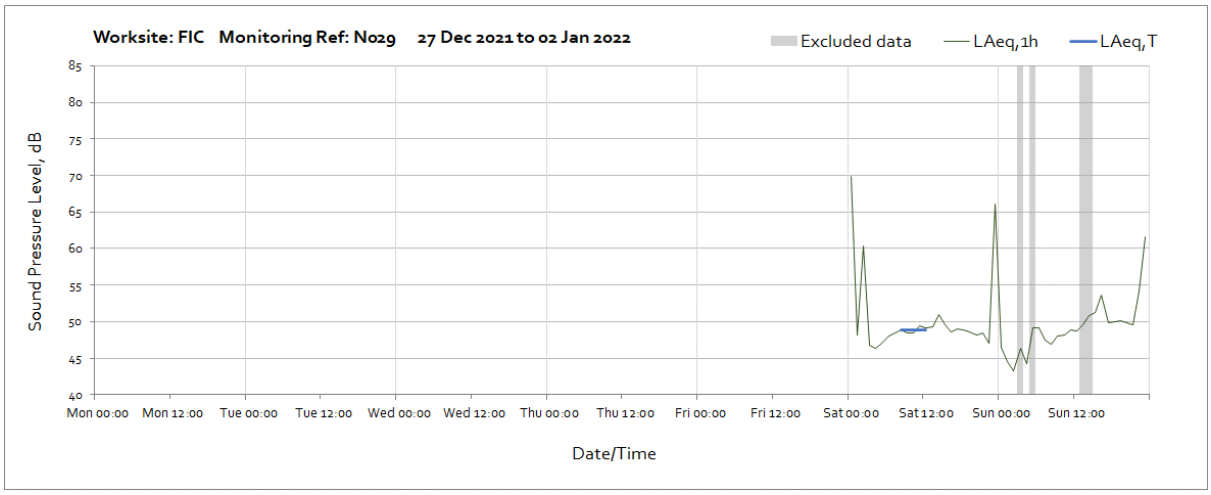
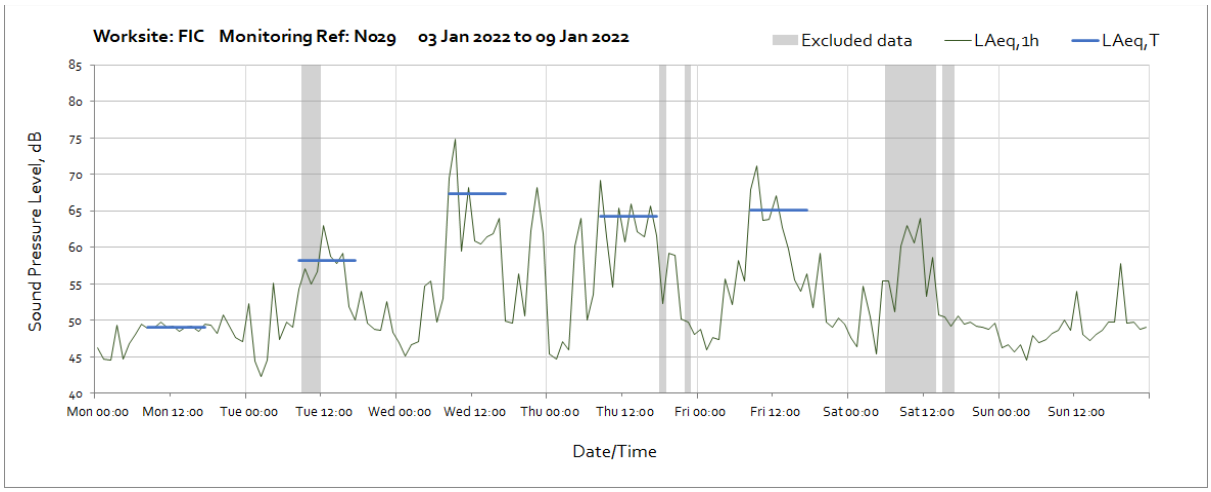
Sun 00:00
Sun 12:00
Date/Time

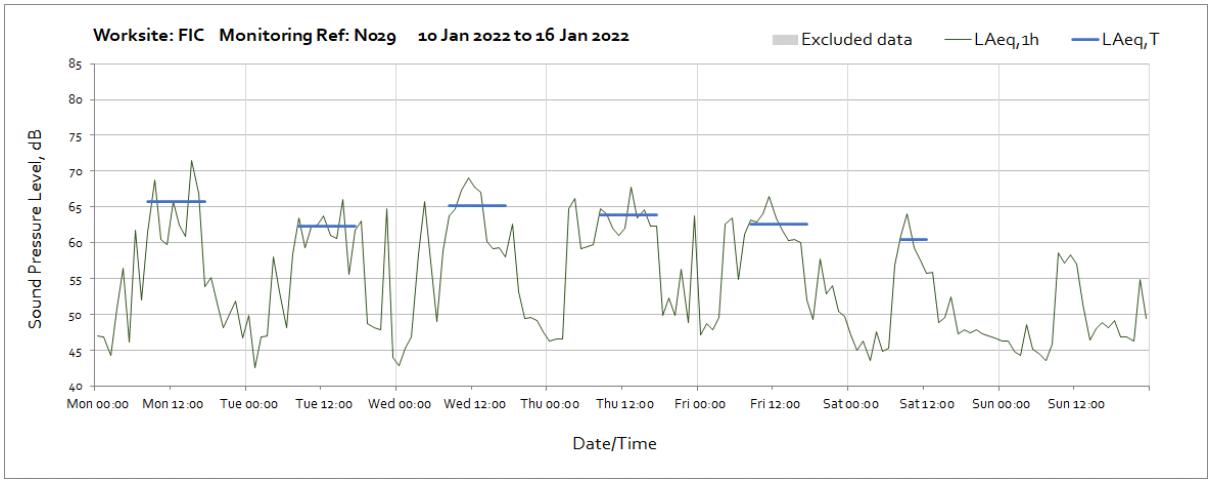


Worksite: Flat Iron Compound (FIC) – Monitoring Ref: N029



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: FIC Monitoring Ref: No29 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
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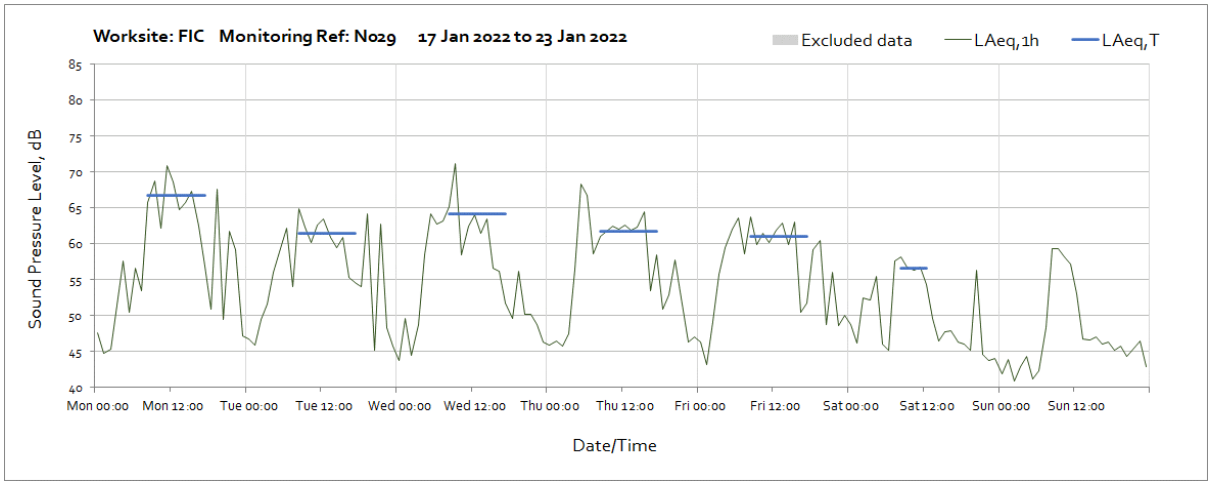
Sun 12:00
Date/Time


Worksite: FIC Monitoring Ref: No29 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
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60
55
50
45
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Mon 00:00
Mon 12:00
Tue 00:00
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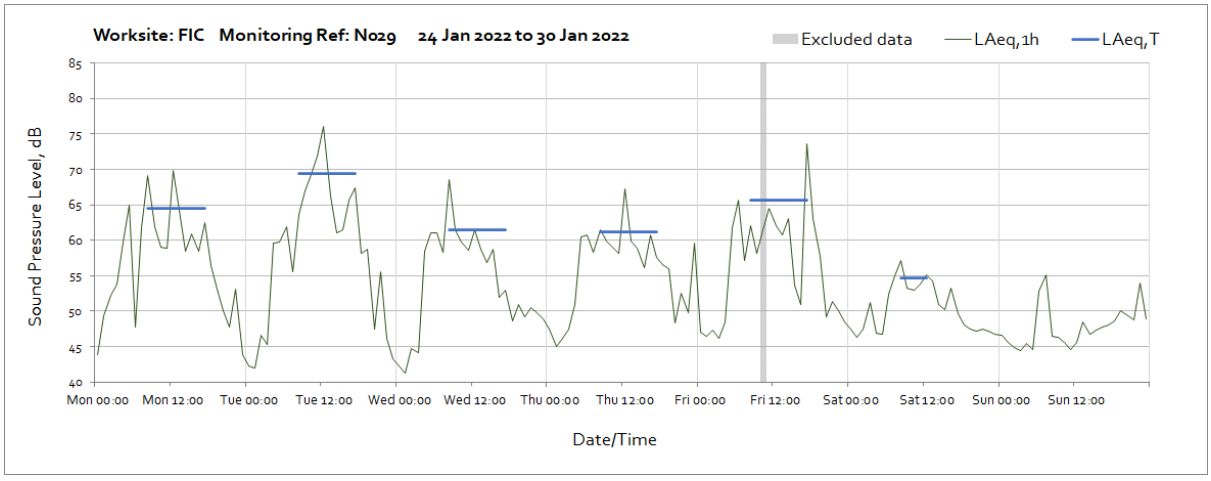
Sun 00:00
Sun 12:00
Date/Time


Worksite: FIC Monitoring Ref: No29 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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65
60
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45
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Mon 00:00
Mon 12:00
Tue 00:00
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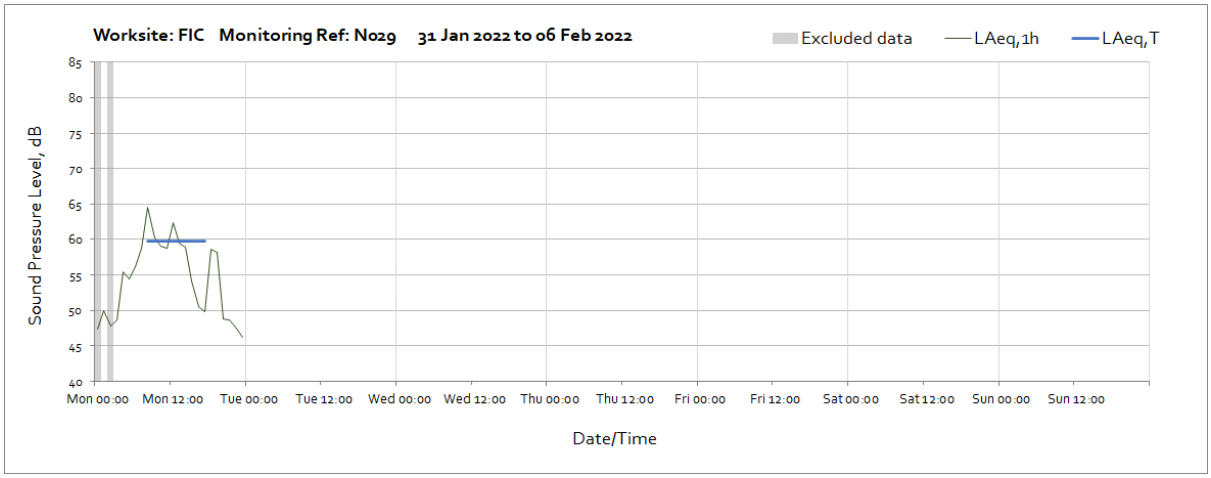
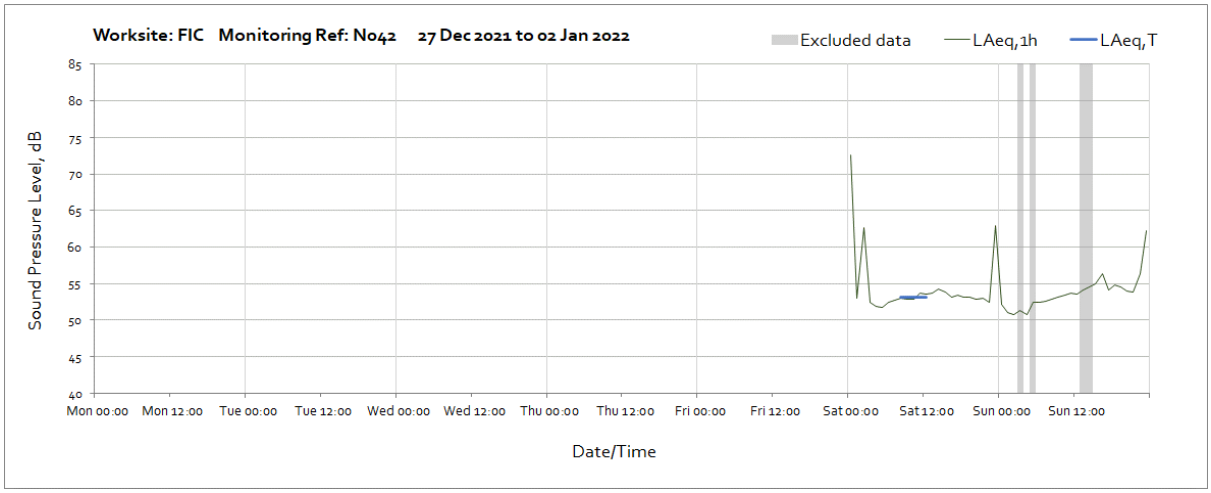
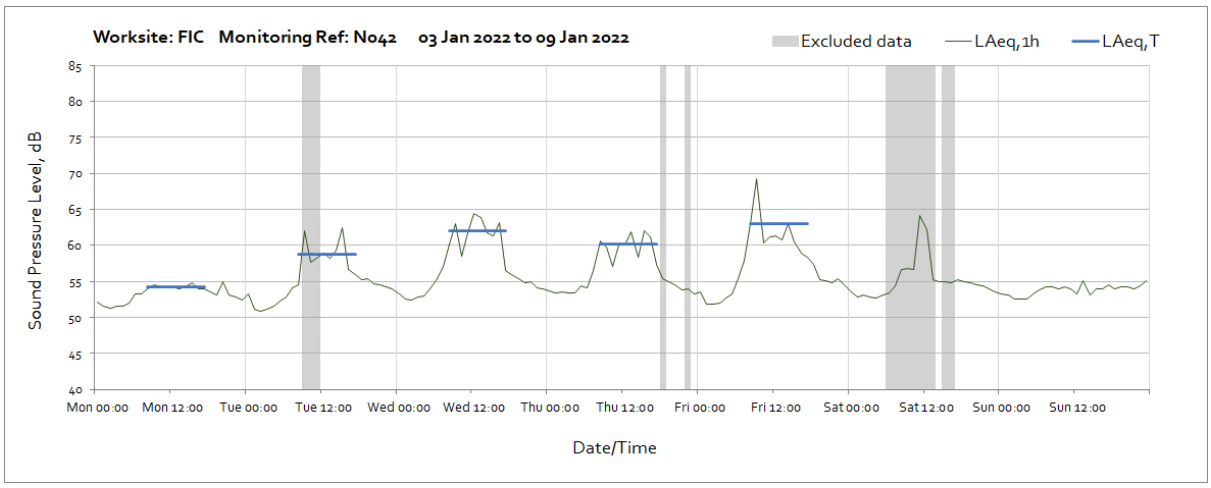
Sun 12:00
Date/Time

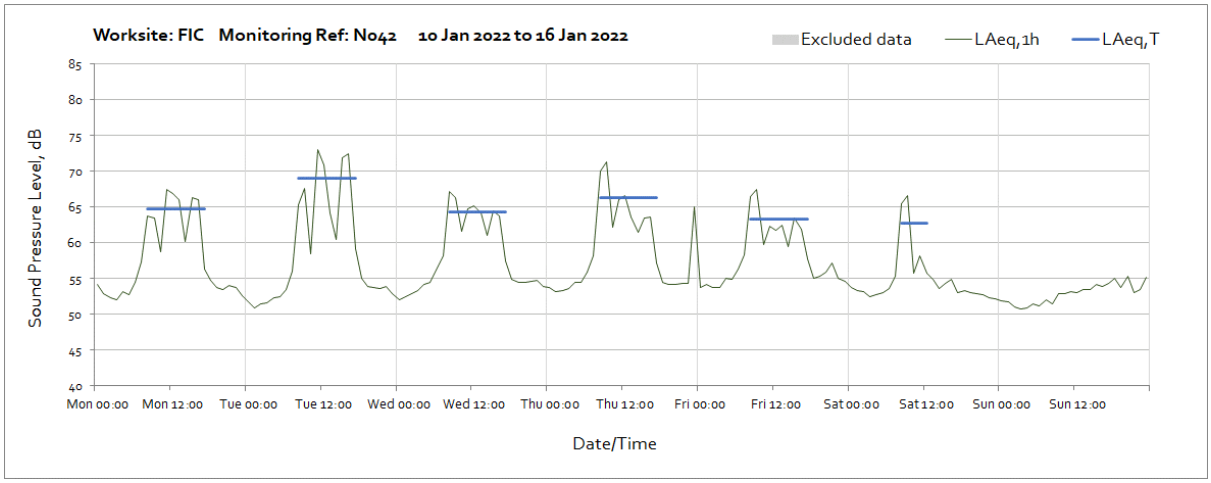


Worksite: Flat Iron Compound (FIC) – Monitoring Ref: N042



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: FIC Monitoring Ref: No42 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
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60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
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Sat 12:00
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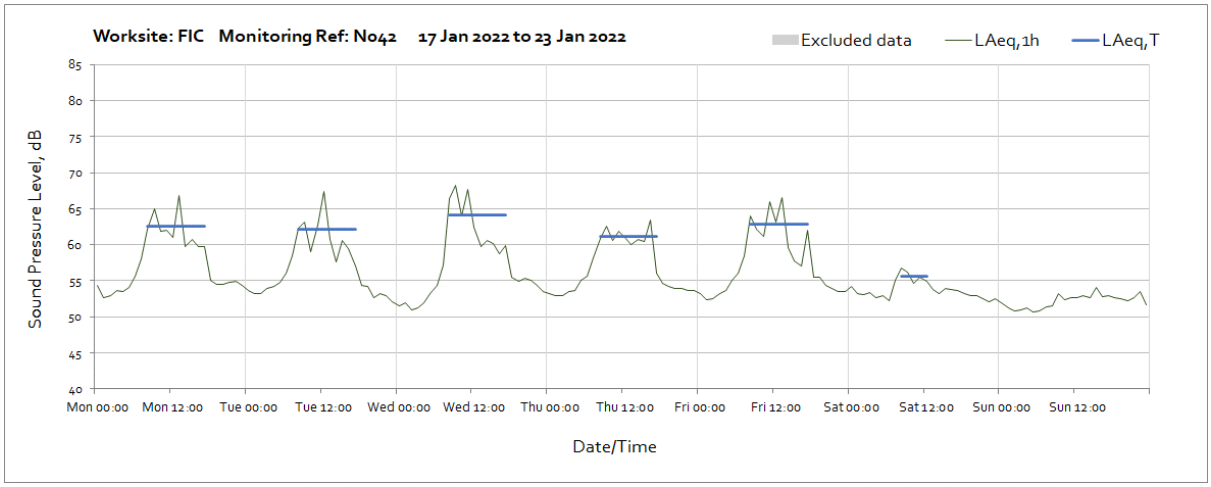
Sun 12:00
Date/Time


Worksite: FIC Monitoring Ref: No42 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
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Mon 00:00
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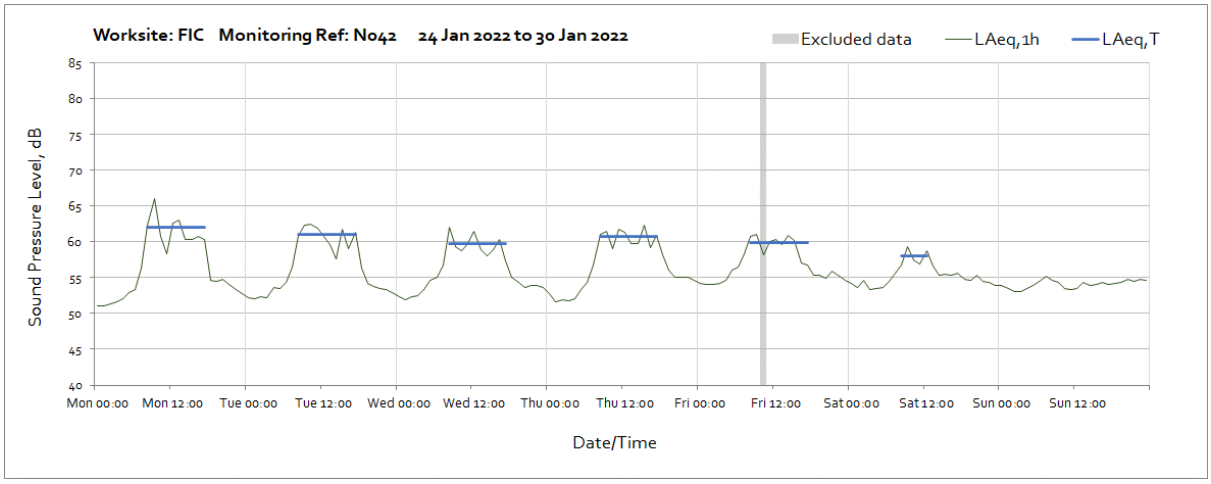
Date/Time


Worksite: FIC Monitoring Ref: No42 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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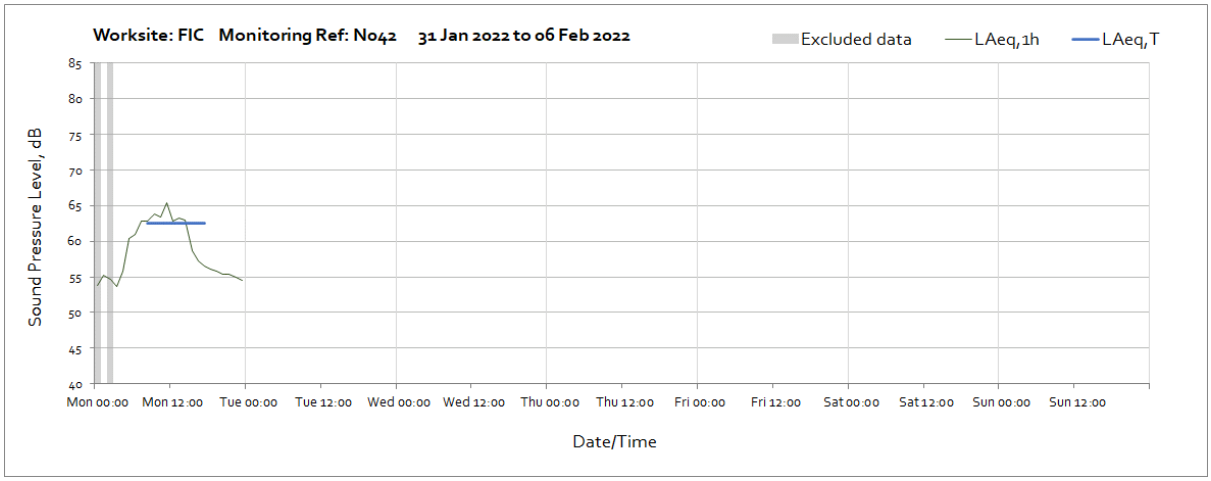
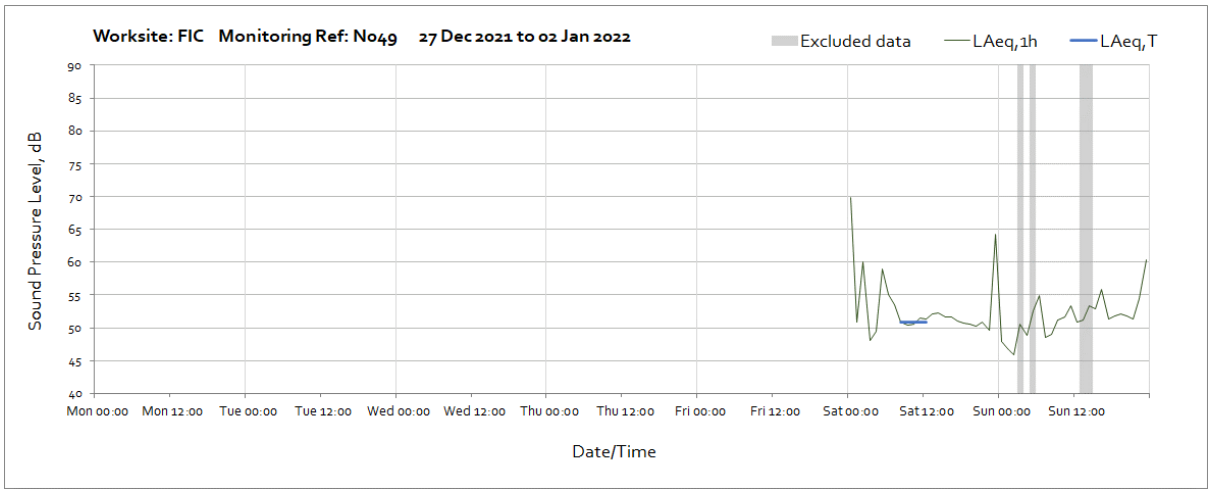
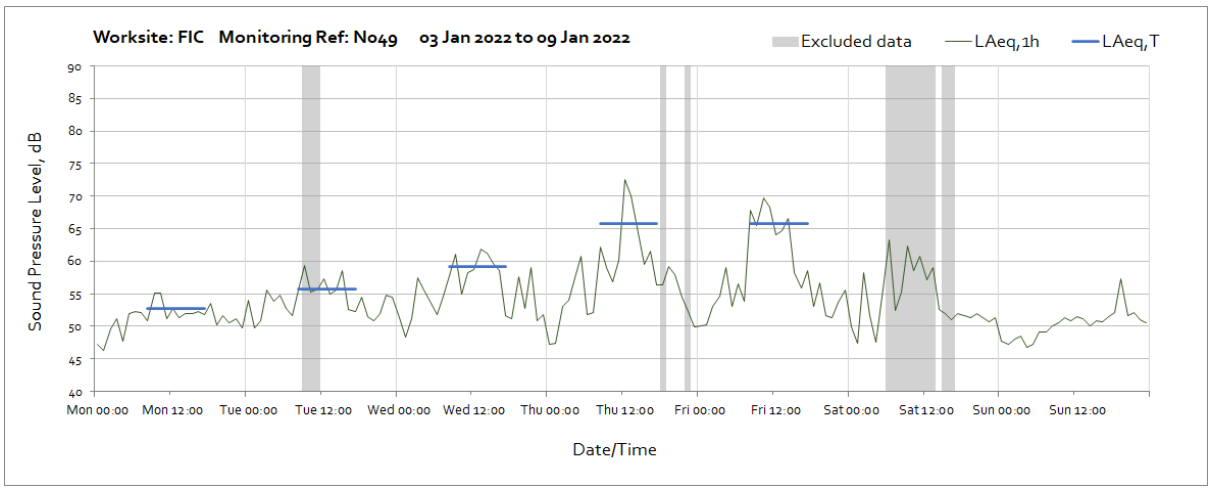
Sun 00:00
Sun 12:00
Date/Time

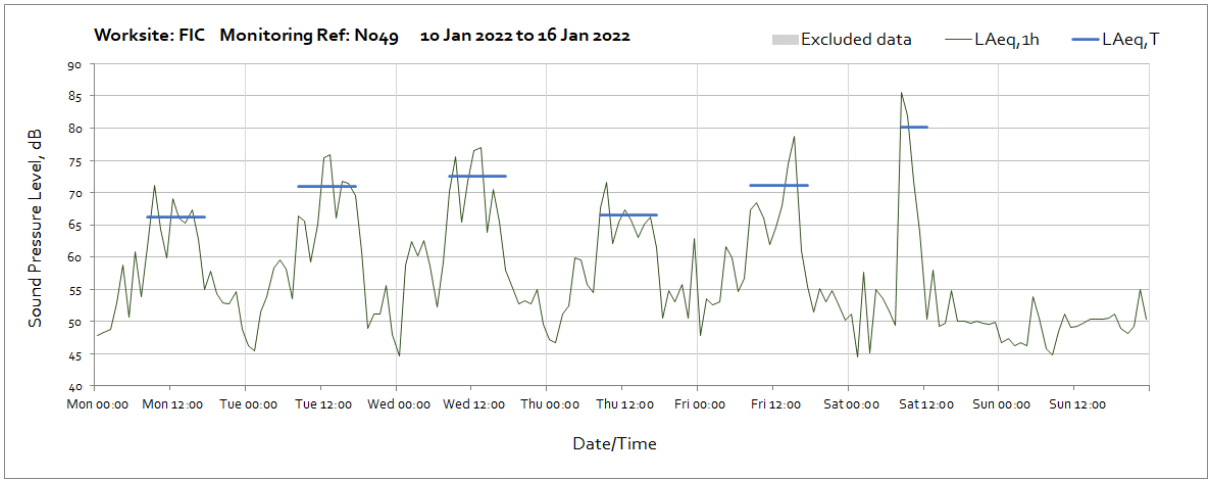


Worksite: Flat Iron Compound (FIC) – Monitoring Ref: N049



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: FIC Monitoring Ref: No49 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
90
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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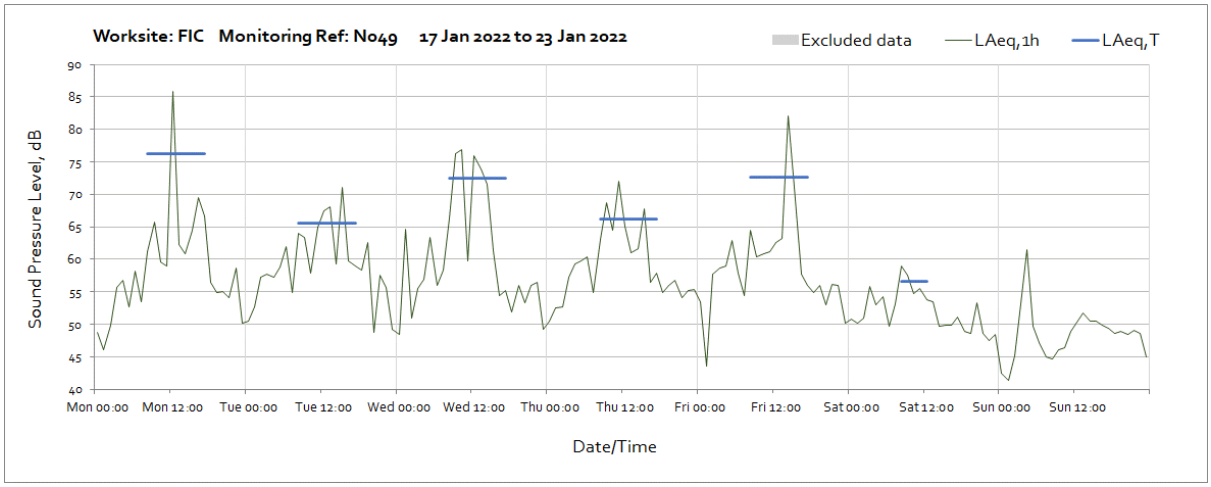
Date/Time


Worksite: FIC Monitoring Ref: No49 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
90
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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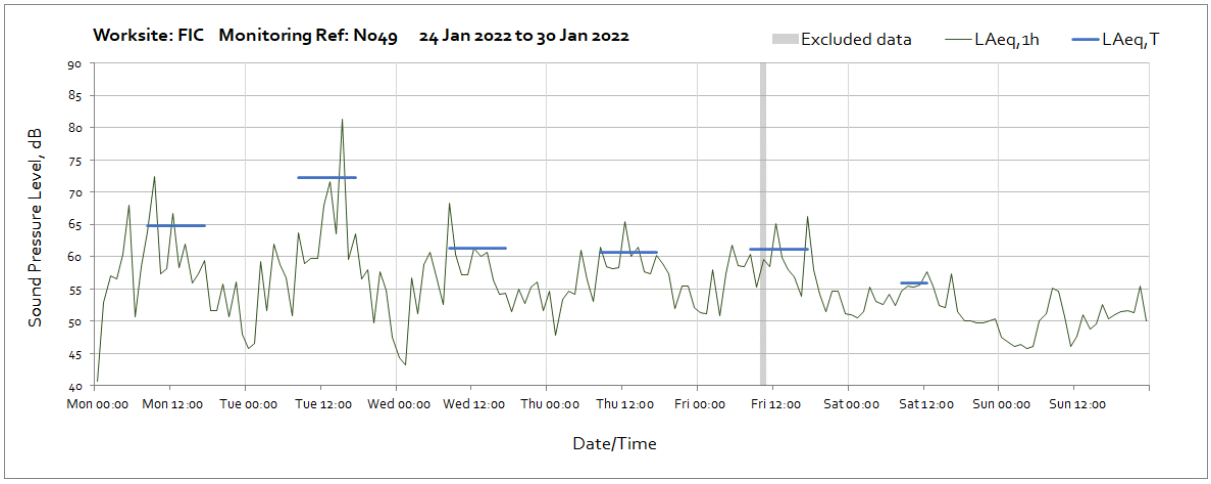
Date/Time


Worksite: FIC Monitoring Ref: No49 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
90
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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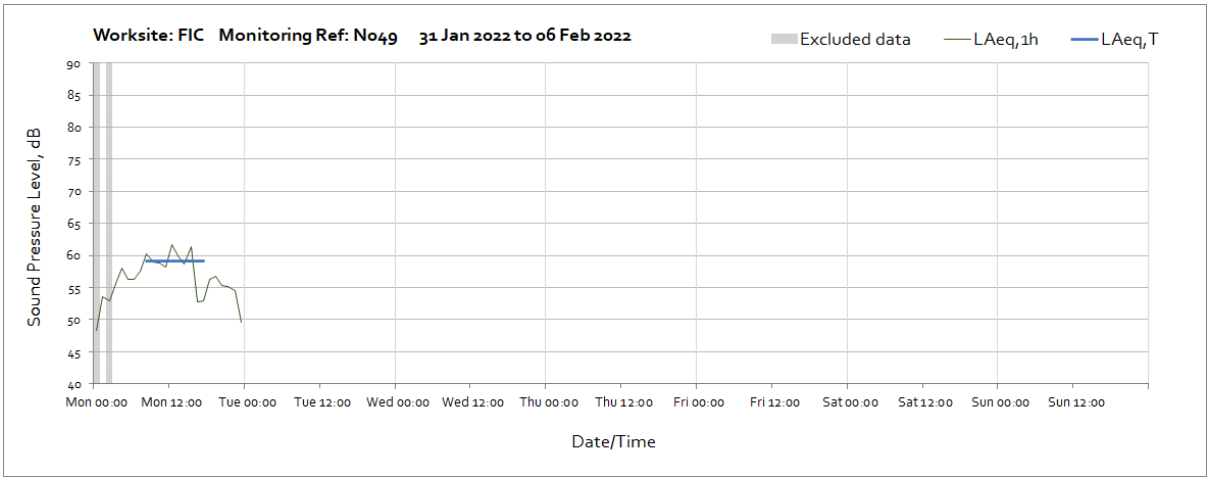
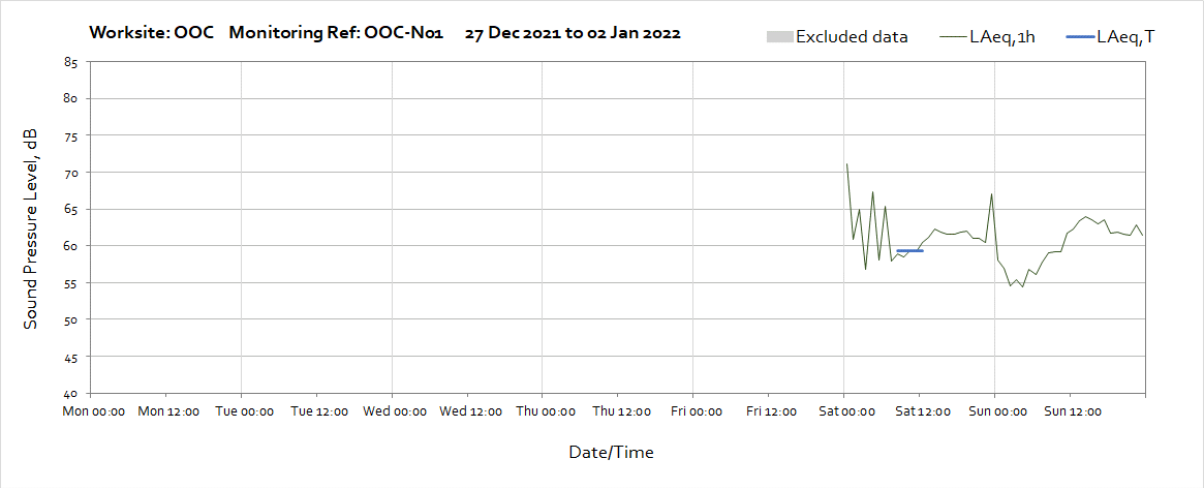
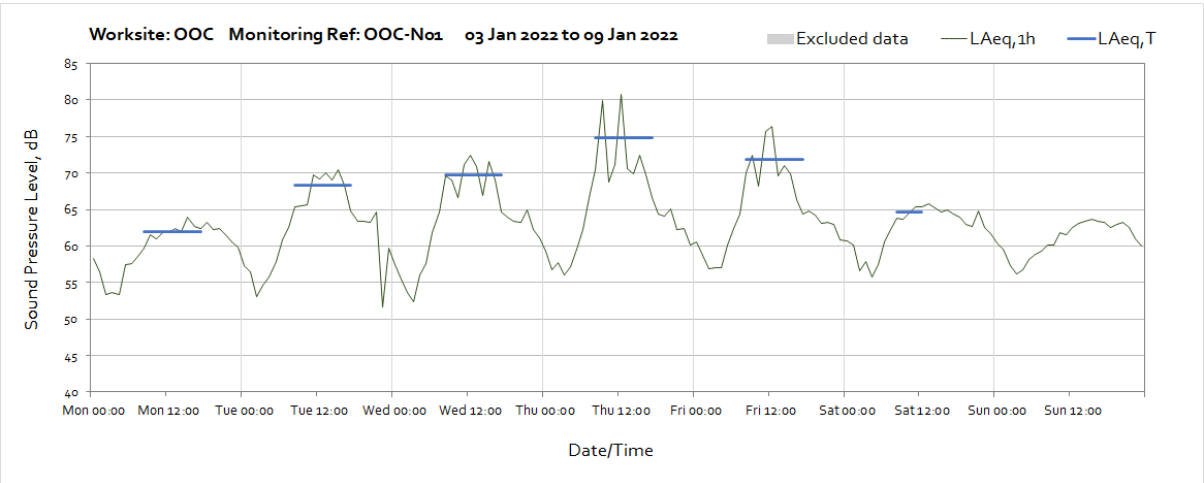
Date/Time

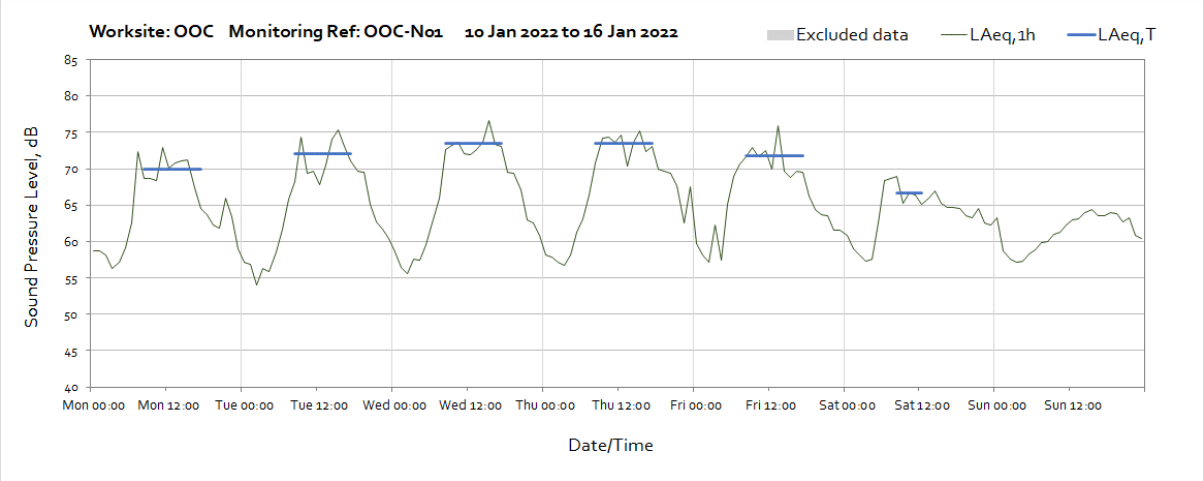


Worksite: Oal Oak Common (OOC) – Monitoring Ref: OOC-N01



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: OOC Monitoring Ref: OOC-No1 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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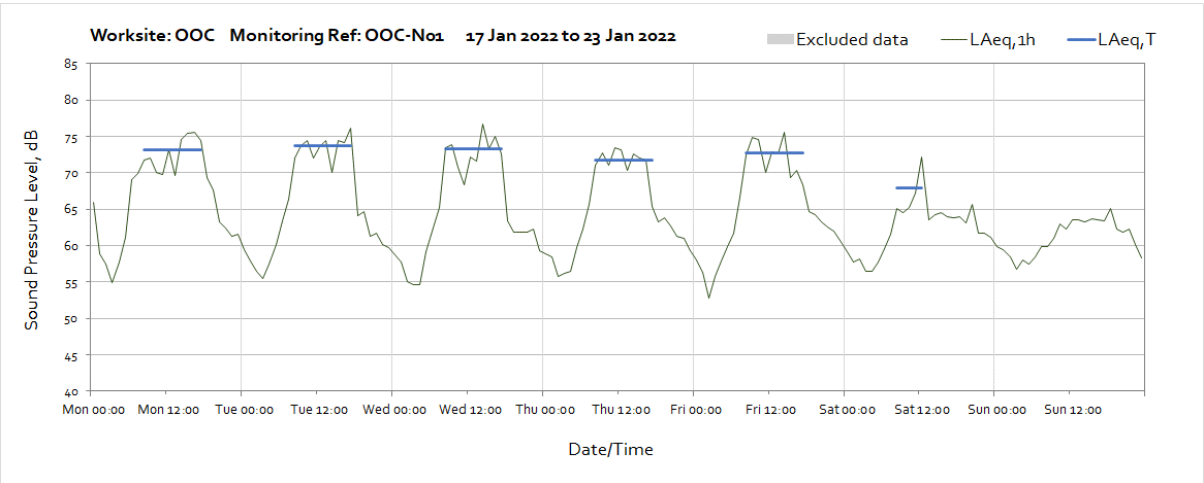
Sun 12:00
Date/Time


Worksite: OOC Monitoring Ref: OOC-No1 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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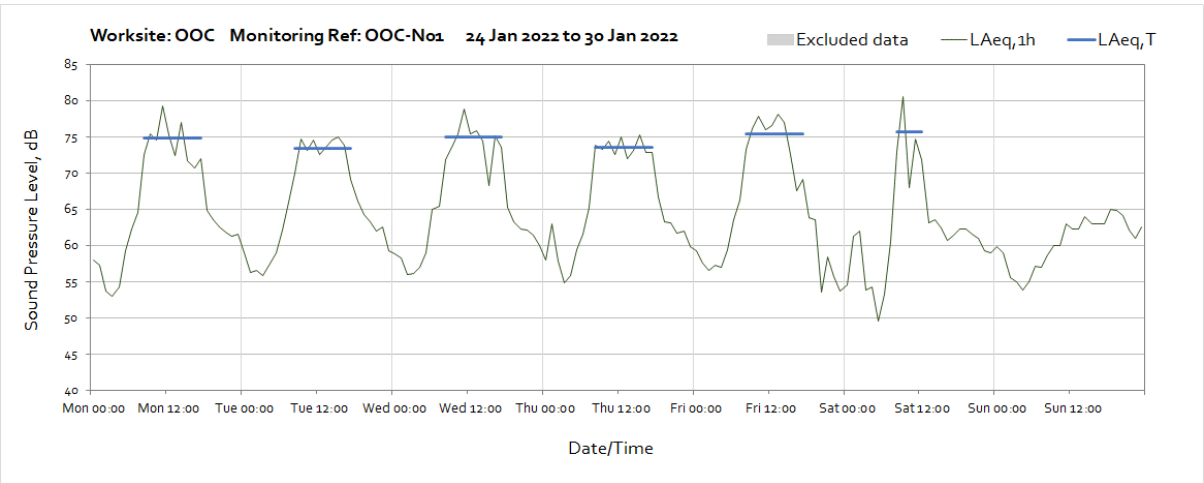
Date/Time


Worksite: OOC Monitoring Ref: OOC-No1 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
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50
45
40
Mon 00:00
Mon 12:00
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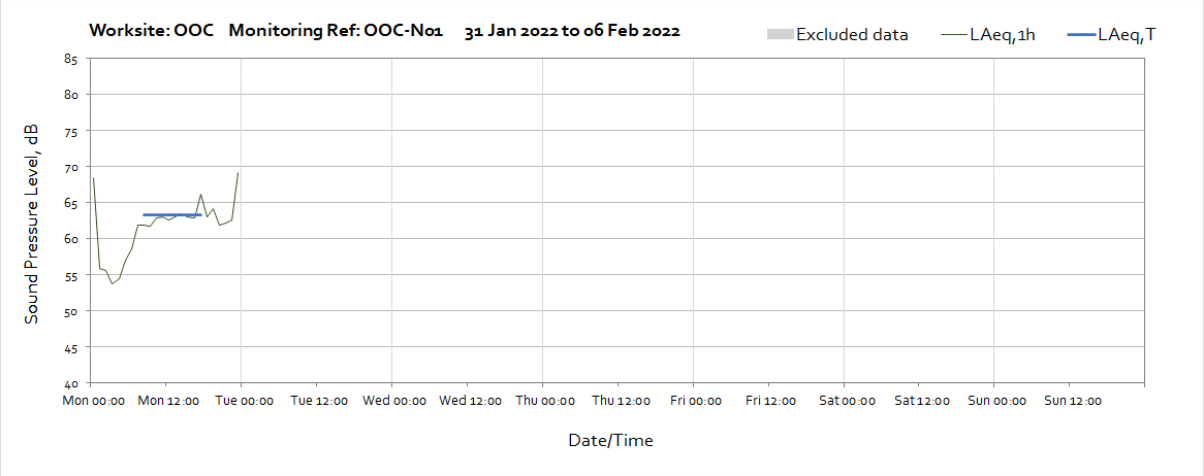
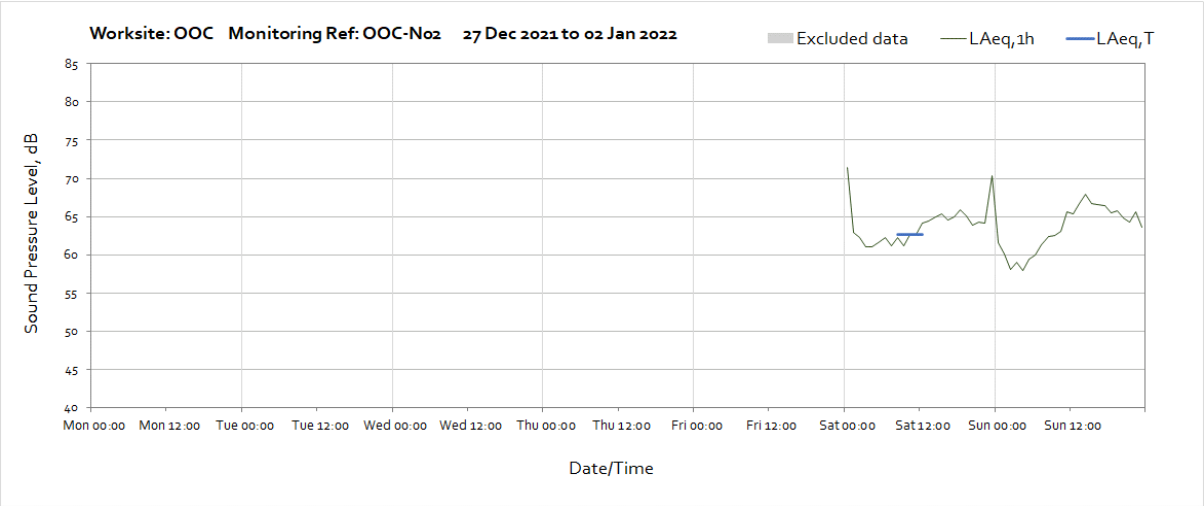
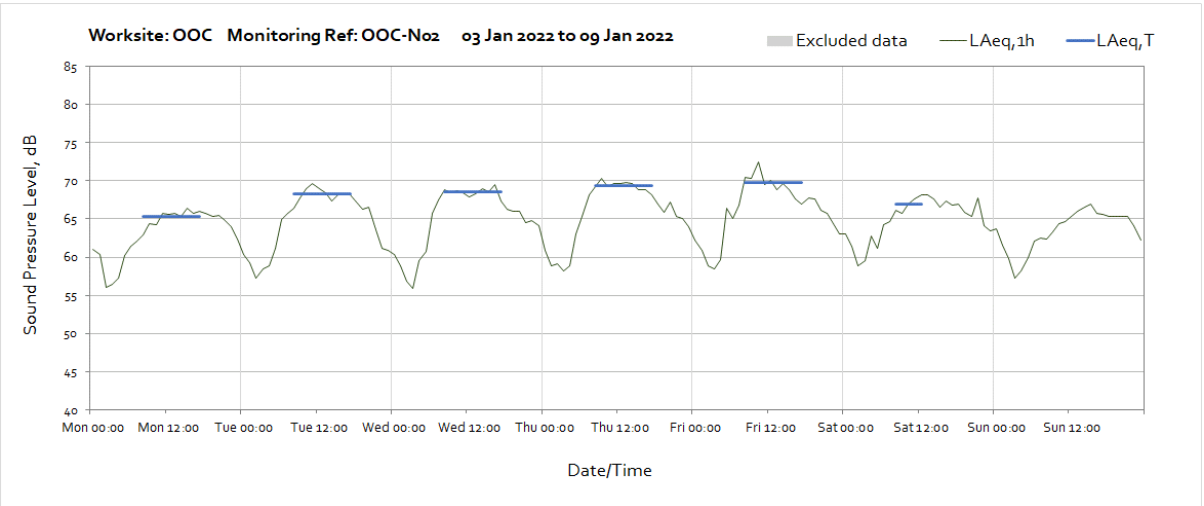
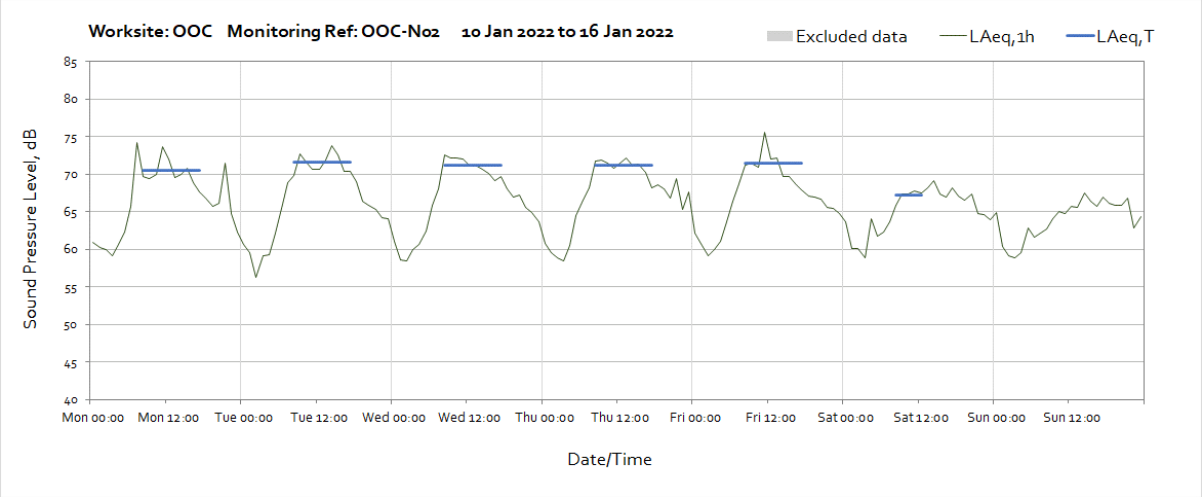
Date/Time



Worksite: Oal Oak Common (OOC) – Monitoring Ref: OOC-N02






Worksite: OOC Monitoring Ref: OOC-No2 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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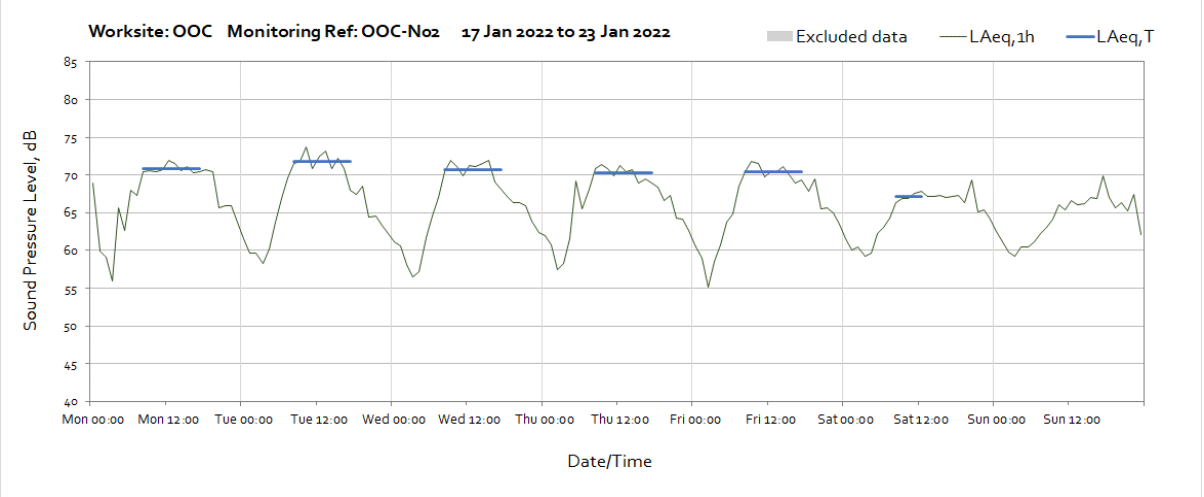
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: OOC Monitoring Ref: OOC-No2 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
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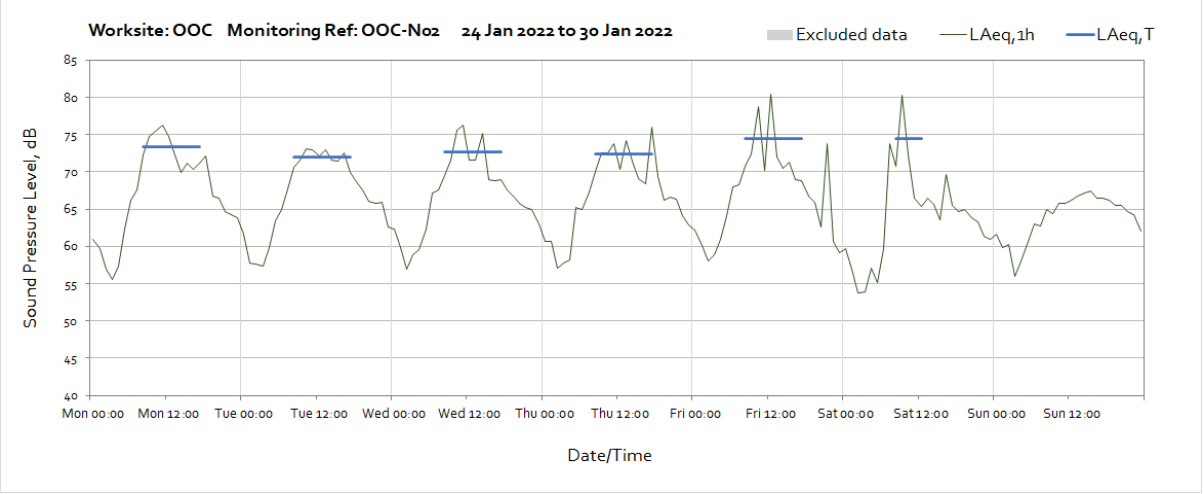
Date/Time


Worksite: OOC Monitoring Ref: OOC-No2 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
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Mon 00:00
Mon 12:00
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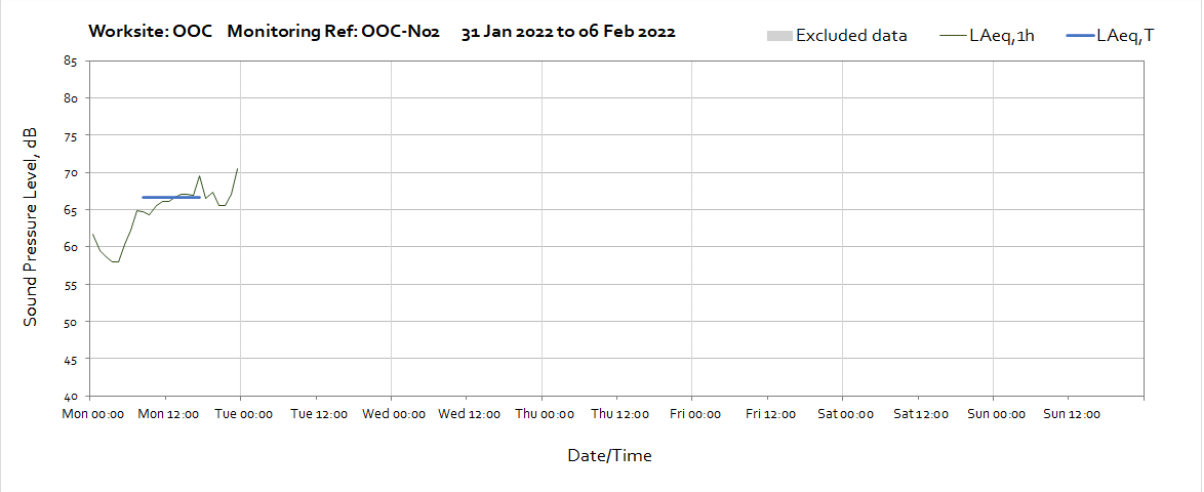
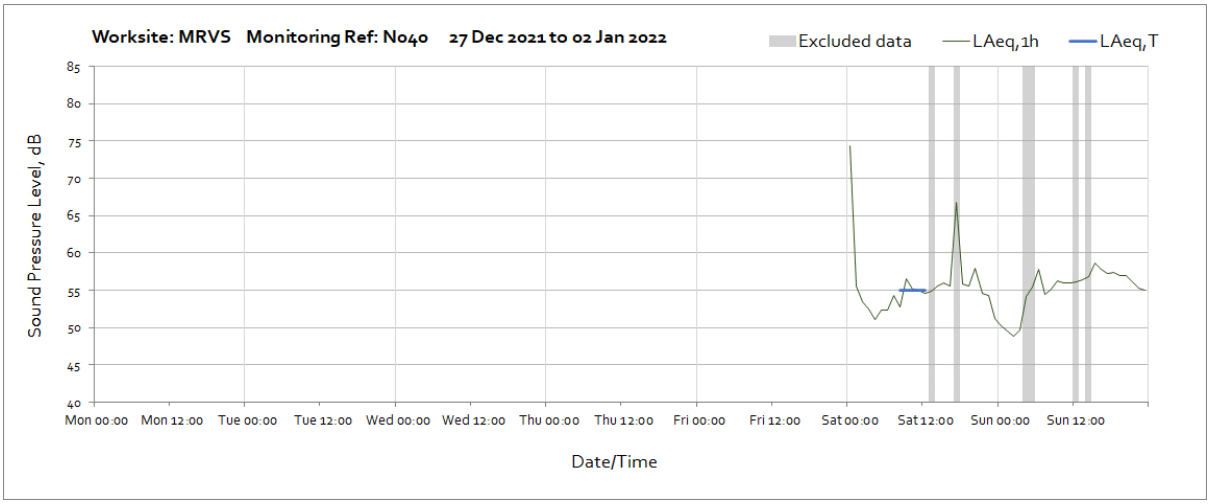
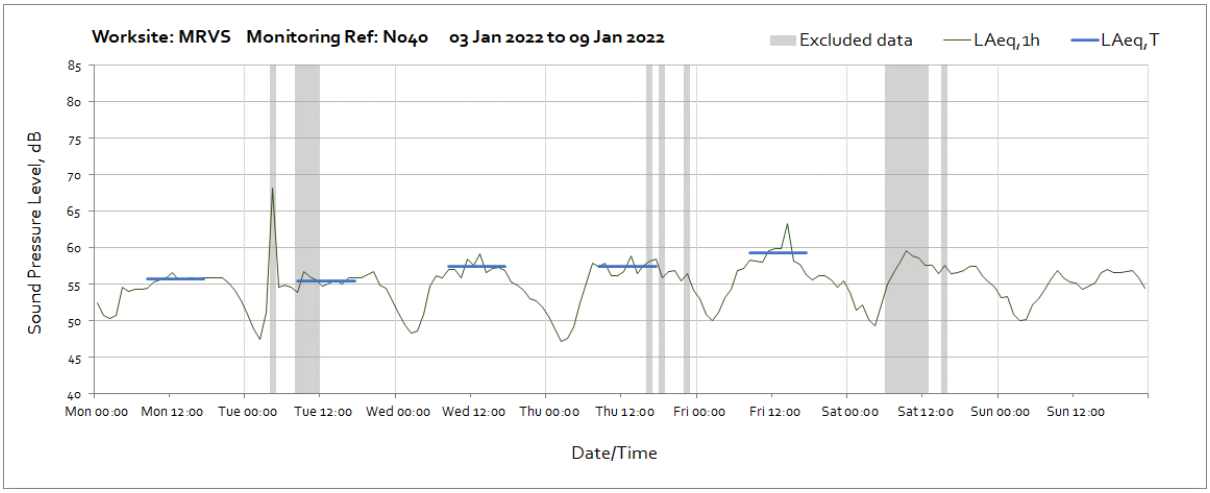
Sun 12:00
Date/Time

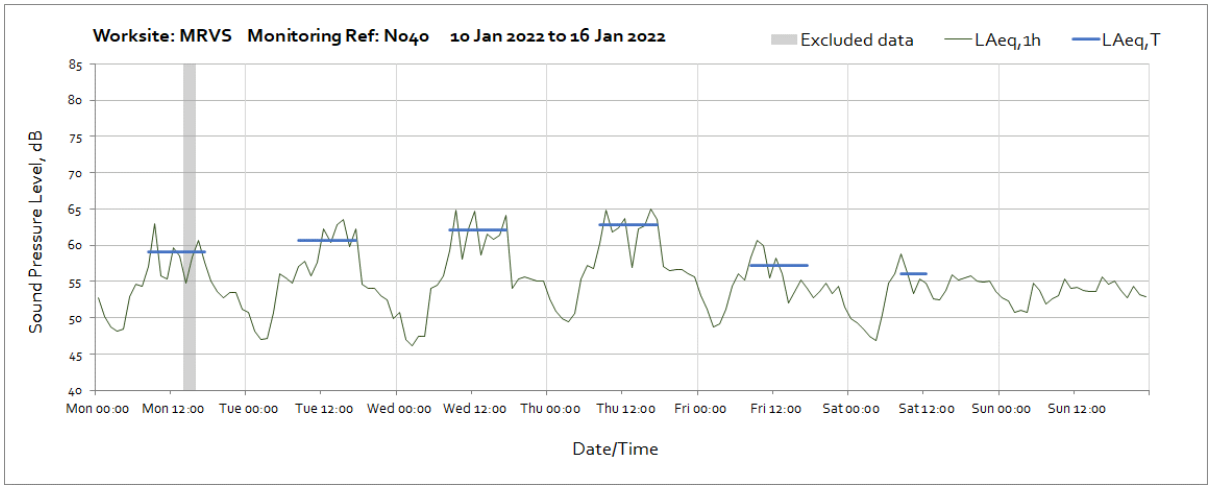


Worksite: Mandeville Road Ventilation Shaft (MRVS) – Monitoring Ref: N040



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: MRVS Monitoring Ref: No40 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
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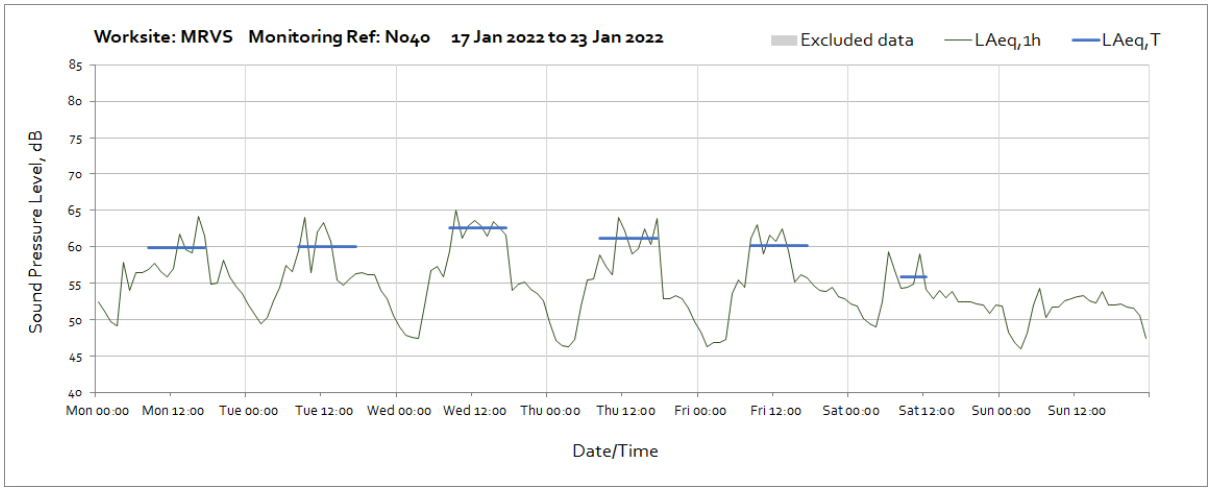
Sun 12:00
Date/Time


Worksite: MRVS Monitoring Ref: No40 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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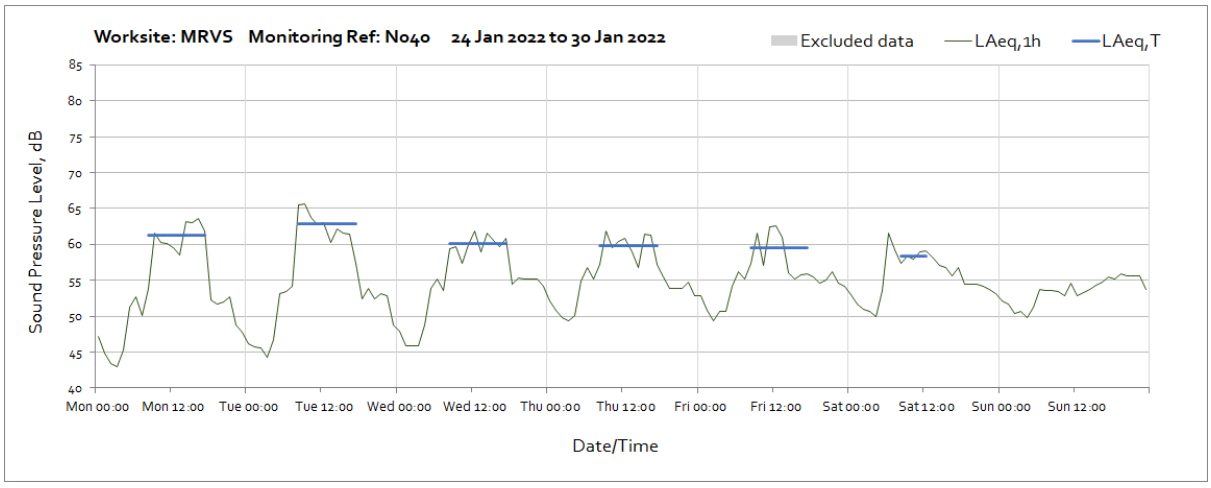
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: MRVS Monitoring Ref: No40 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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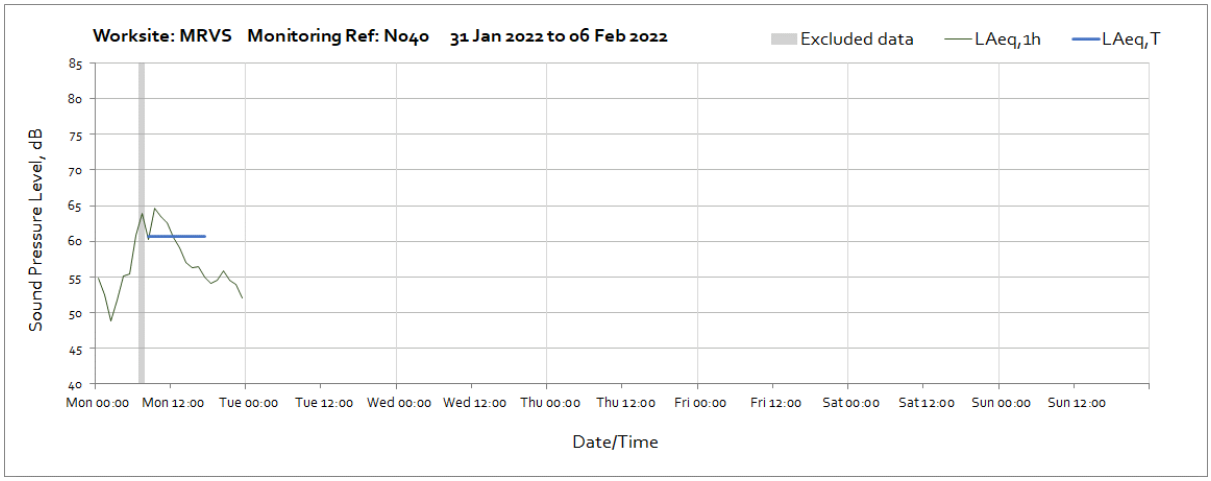
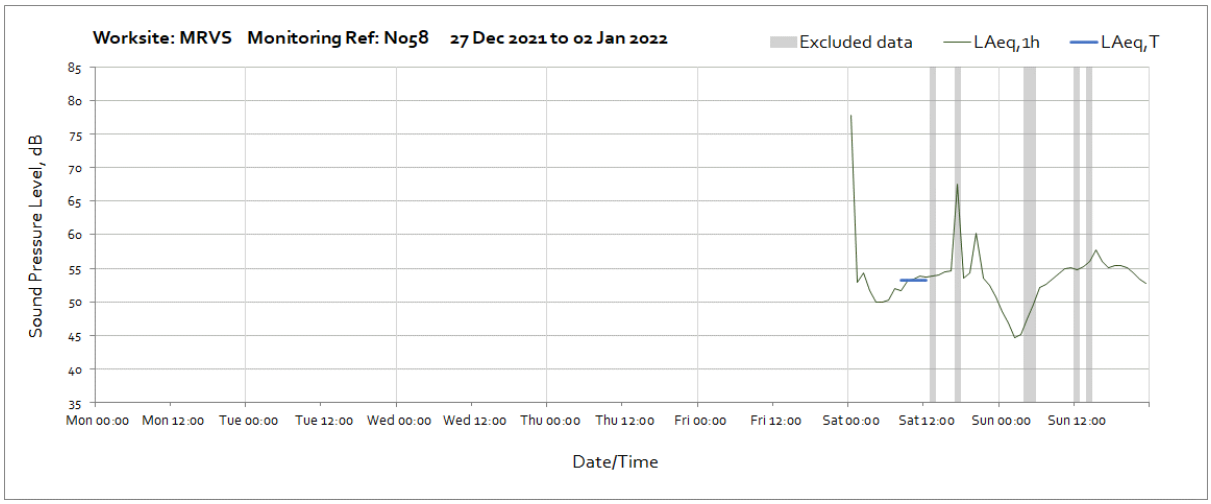
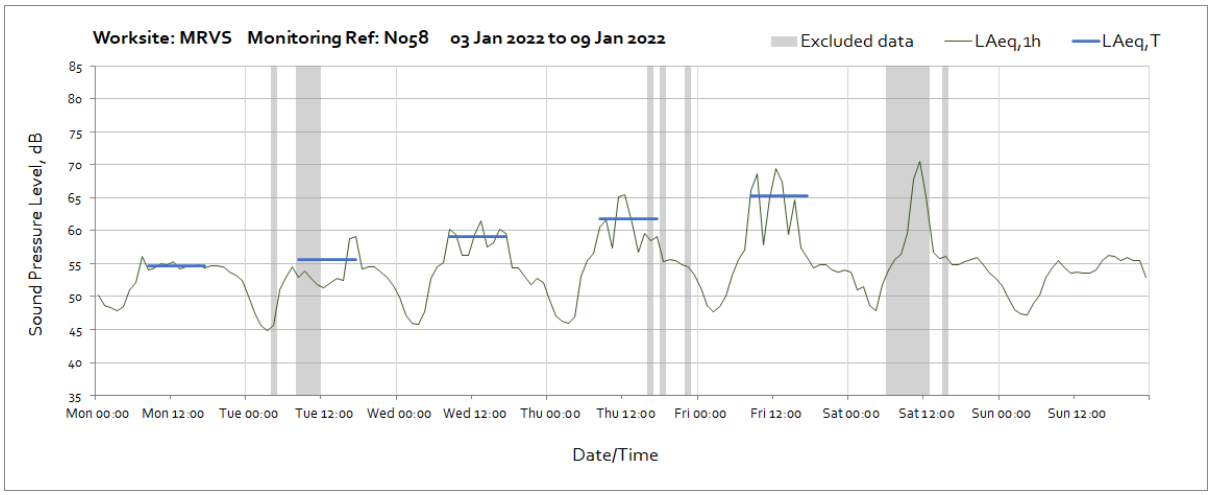
Sun 00:00
Sun 12:00
Date/Time

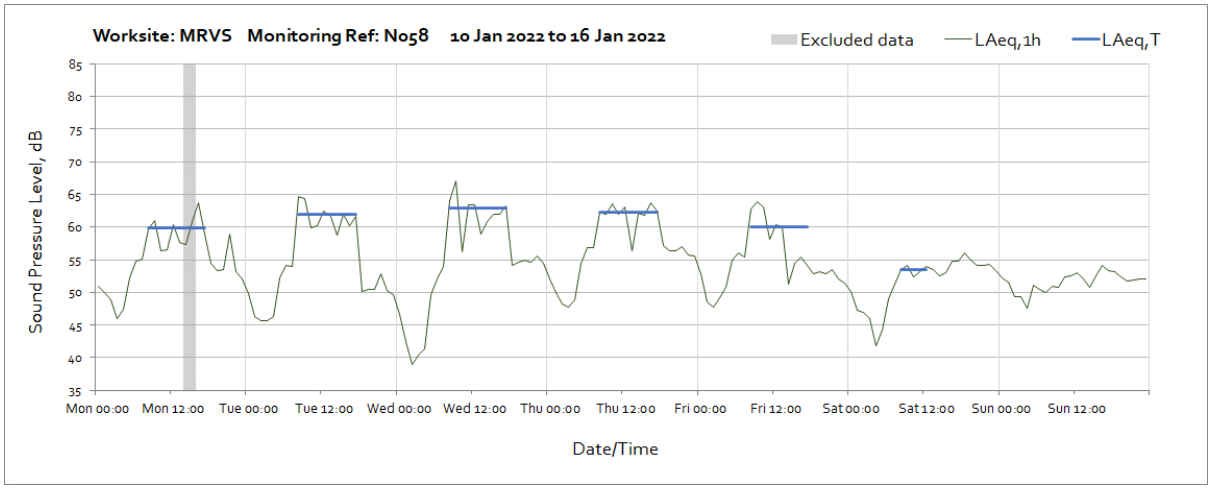


Worksite: Mandeville Road Ventilation Shaft (MRVS) – Monitoring Ref: N058



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: MRVS Monitoring Ref: No58 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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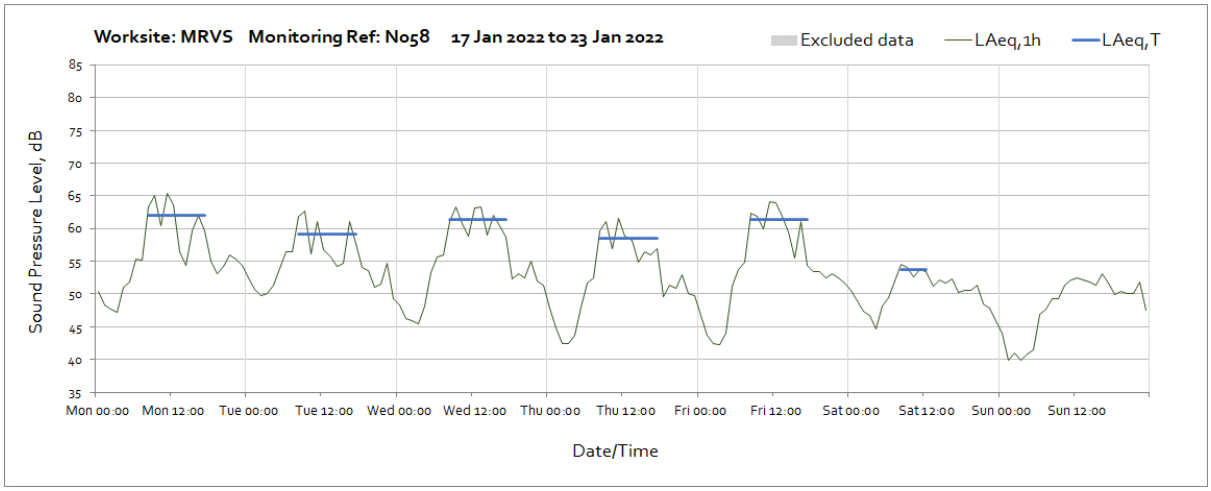
Sun 00:00
Sun 12:00
Date/Time


Worksite: MRVS Monitoring Ref: No58 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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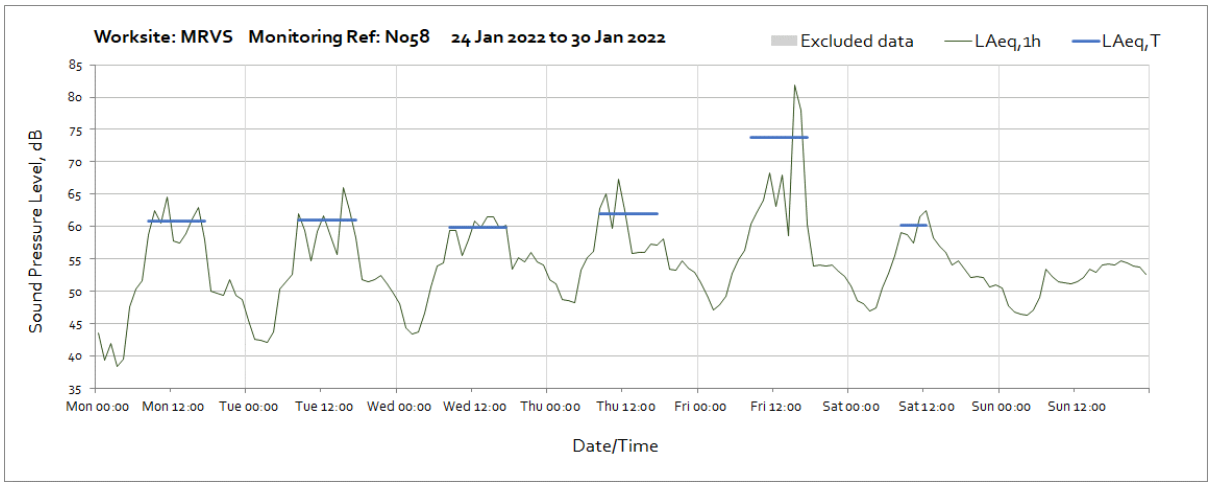
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: MRVS Monitoring Ref: No58 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
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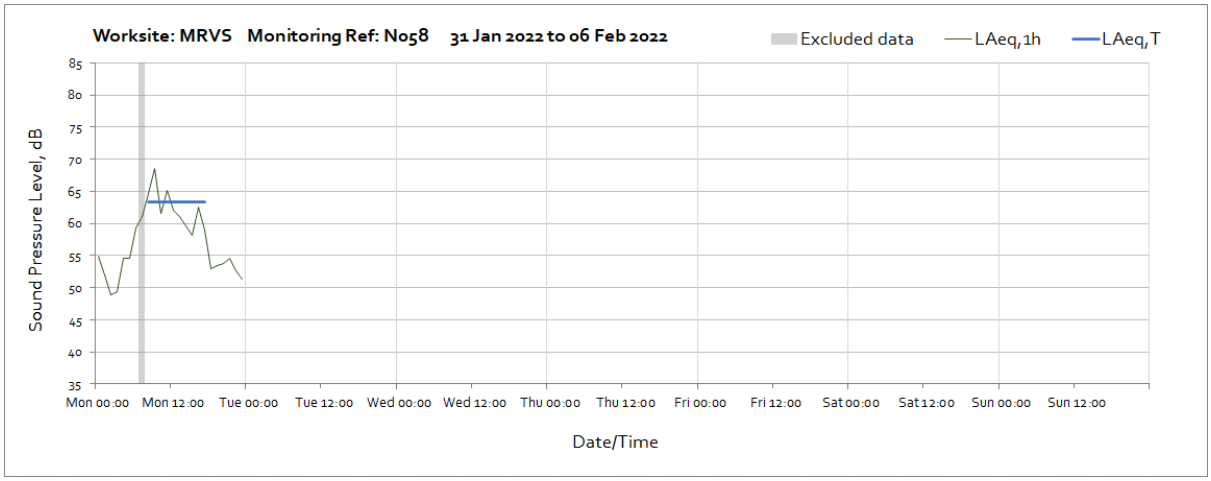
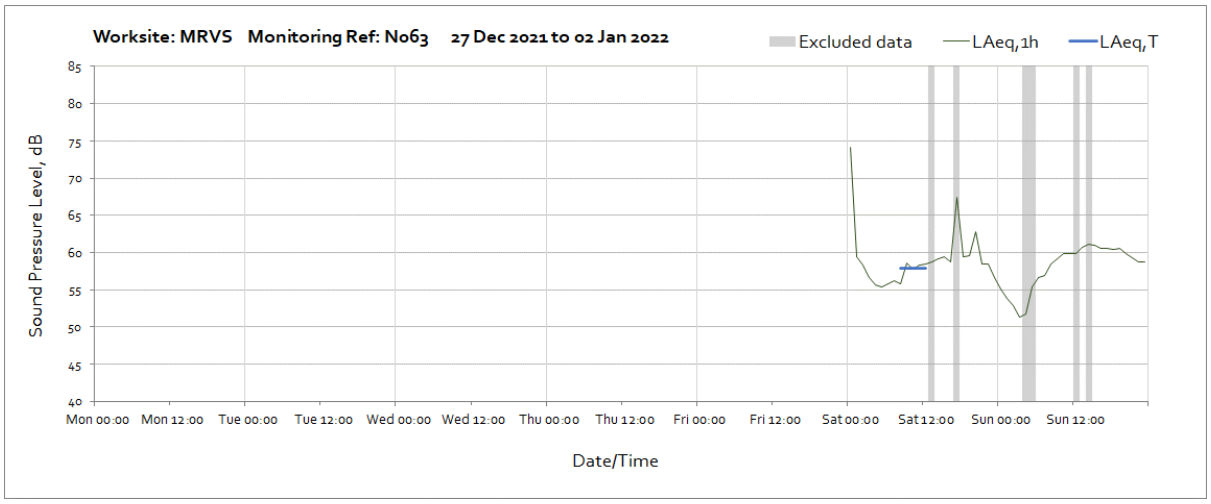
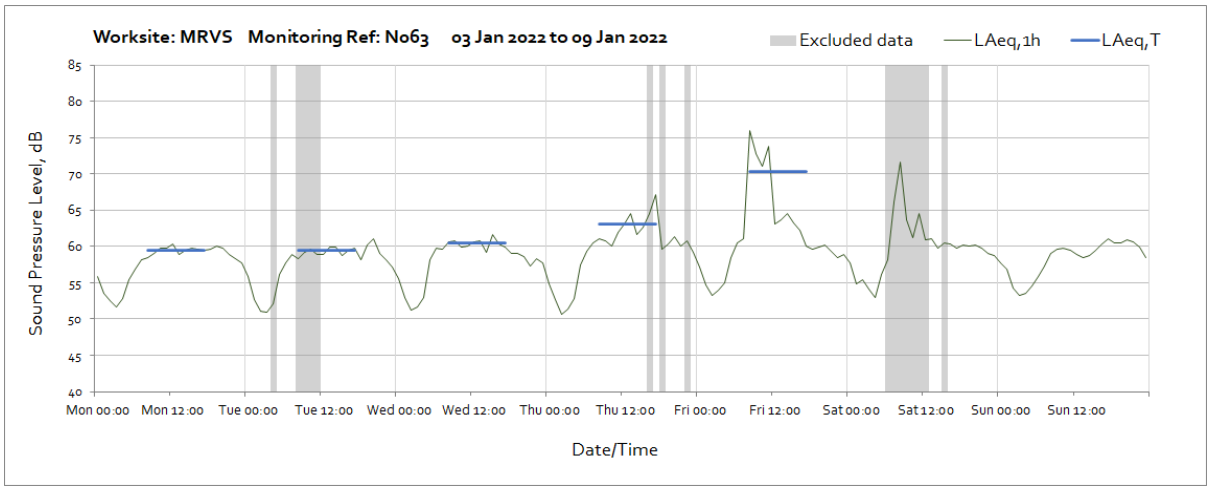
Sun 00:00
Sun 12:00
Date/Time

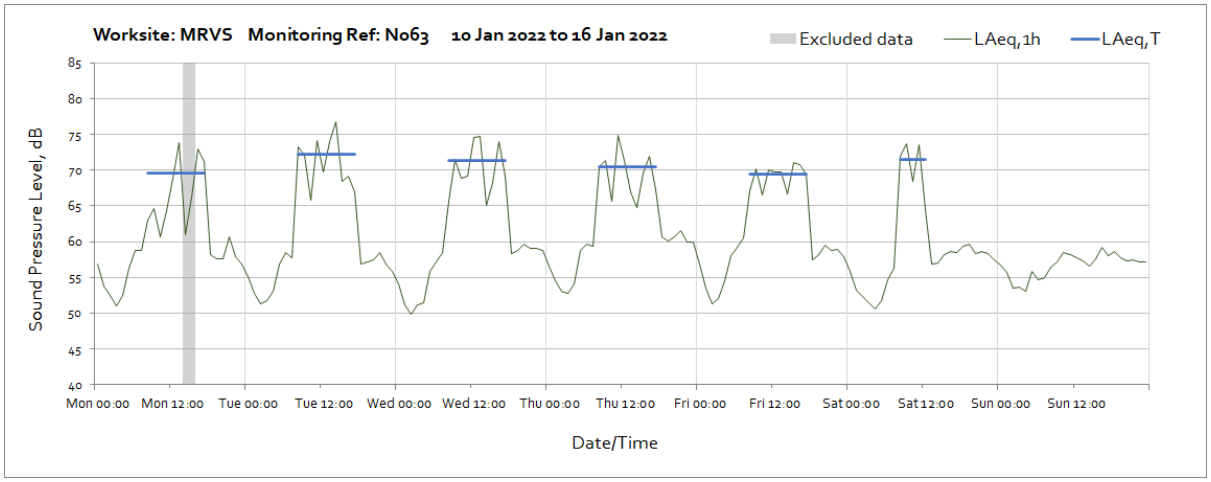


Worksite: Mandeville Road Ventilation Shaft (MRVS) – Monitoring Ref: N063



Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: MRVS Monitoring Ref: No63 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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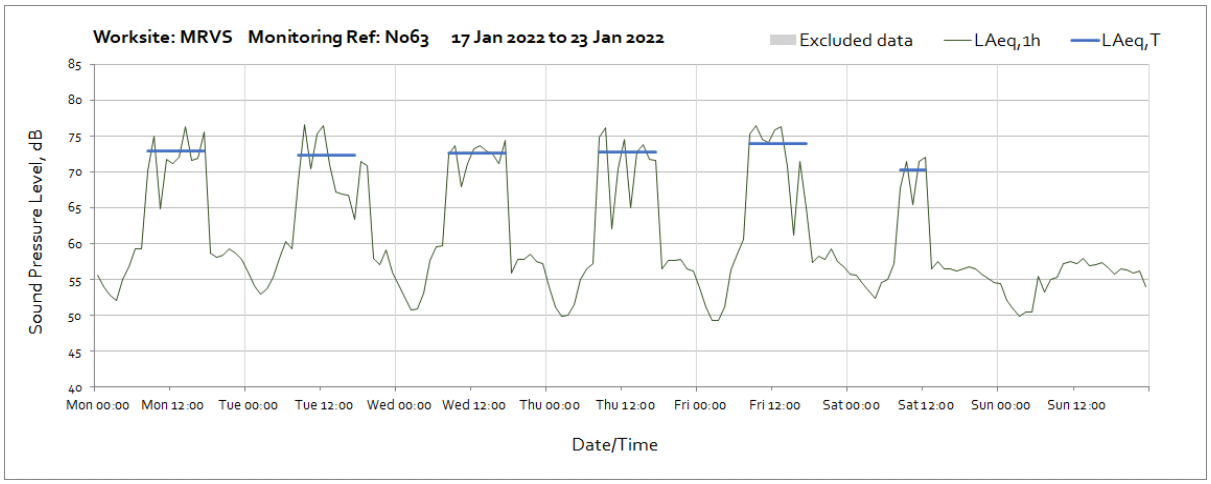
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: MRVS Monitoring Ref: No63 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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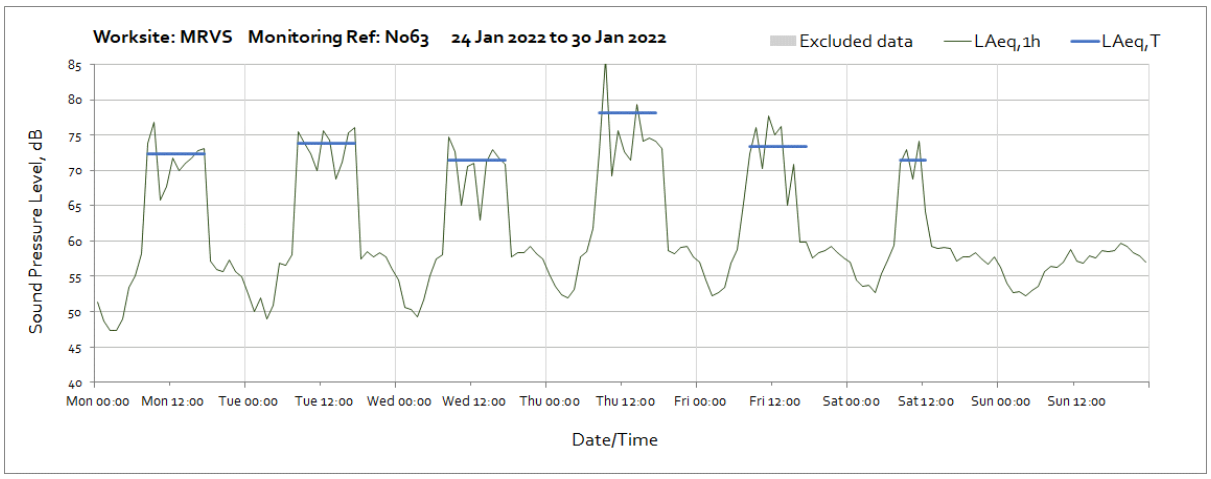
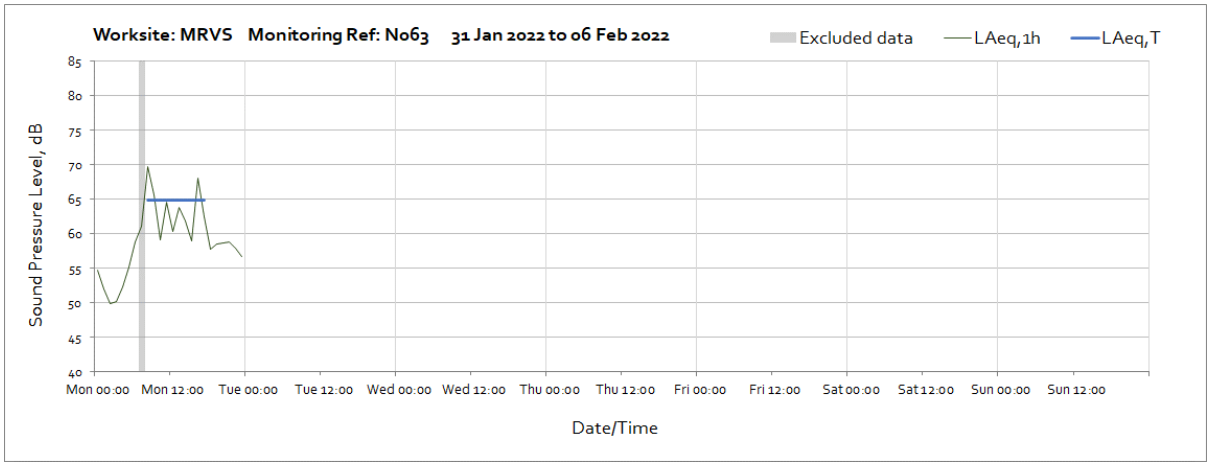
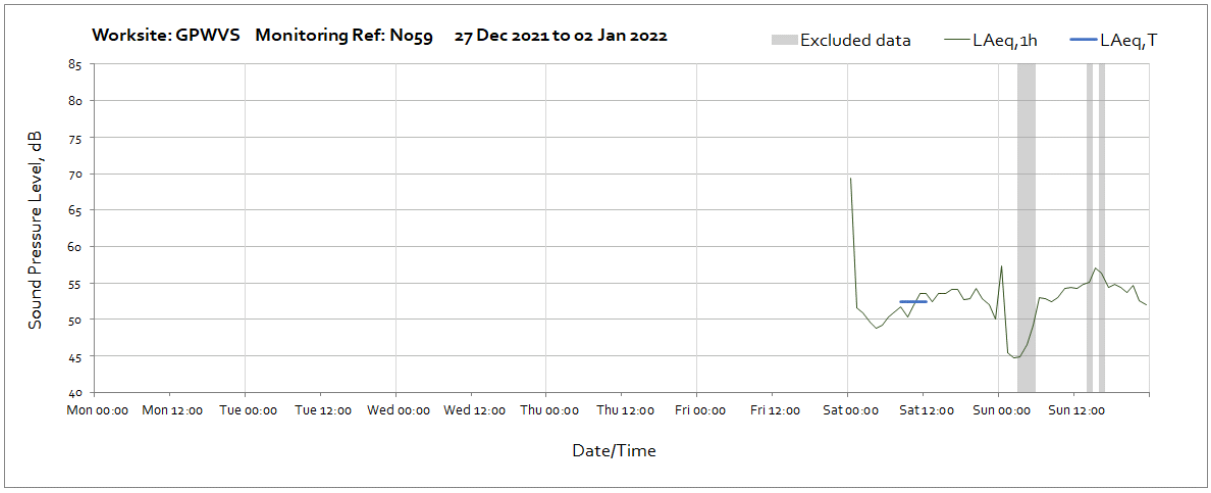
Sun 00:00
Sun 12:00
Date/Time

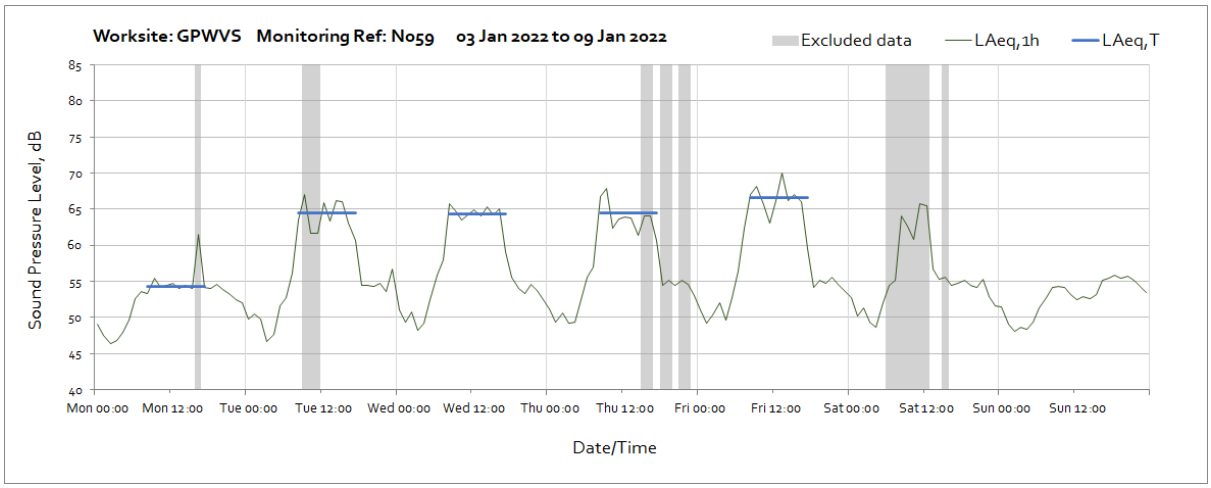

Worksite: MRVS Monitoring Ref: No63 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

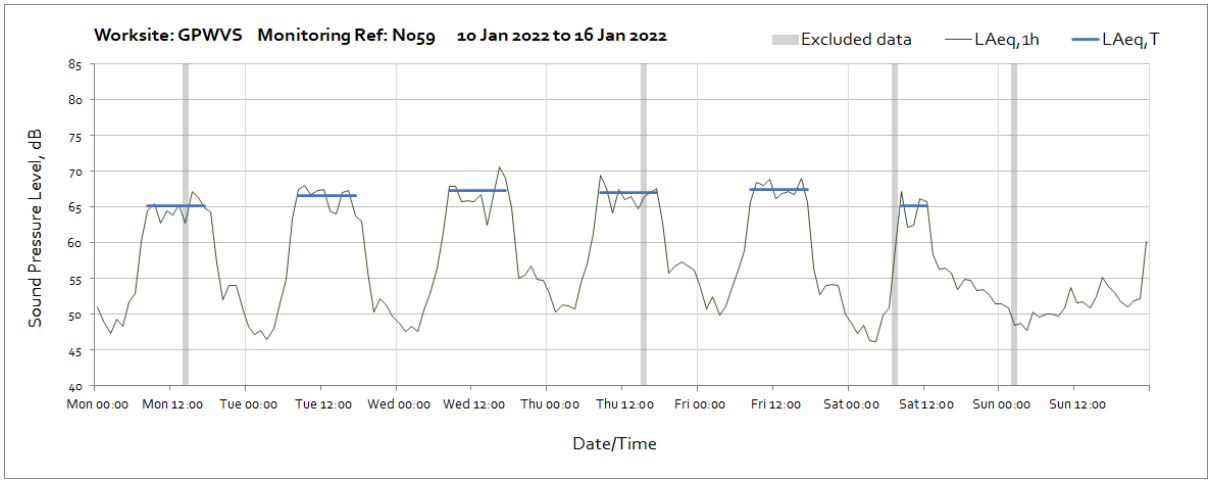


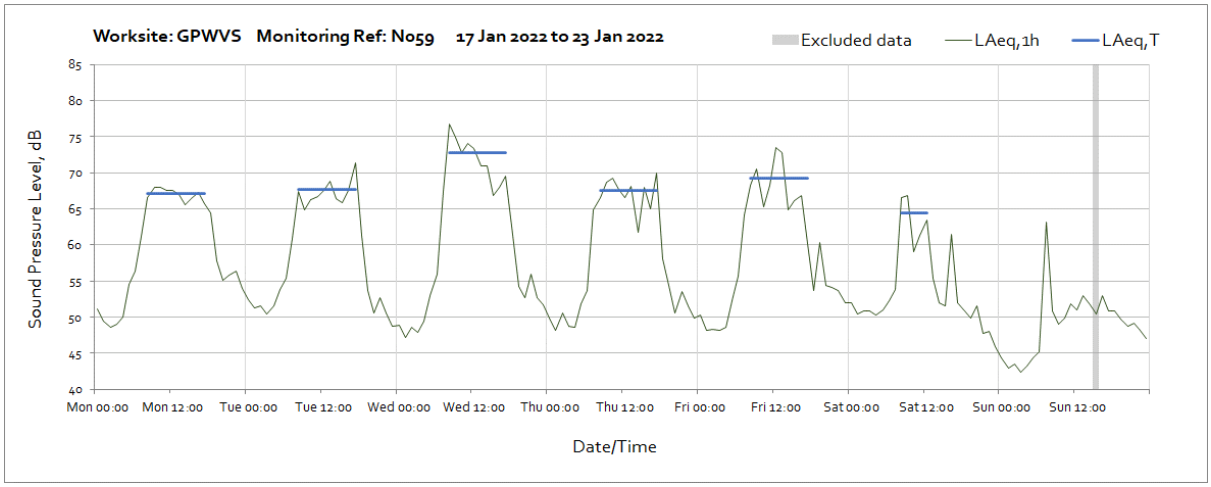
Worksite: Green Park Way Vent Shaft (GPWVS) – Monitoring Ref: N059

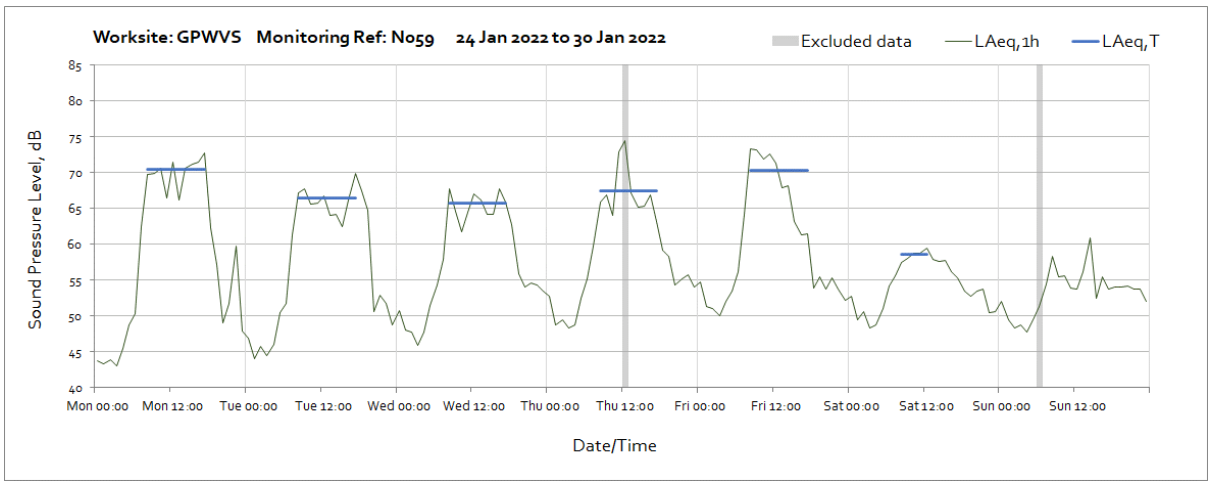


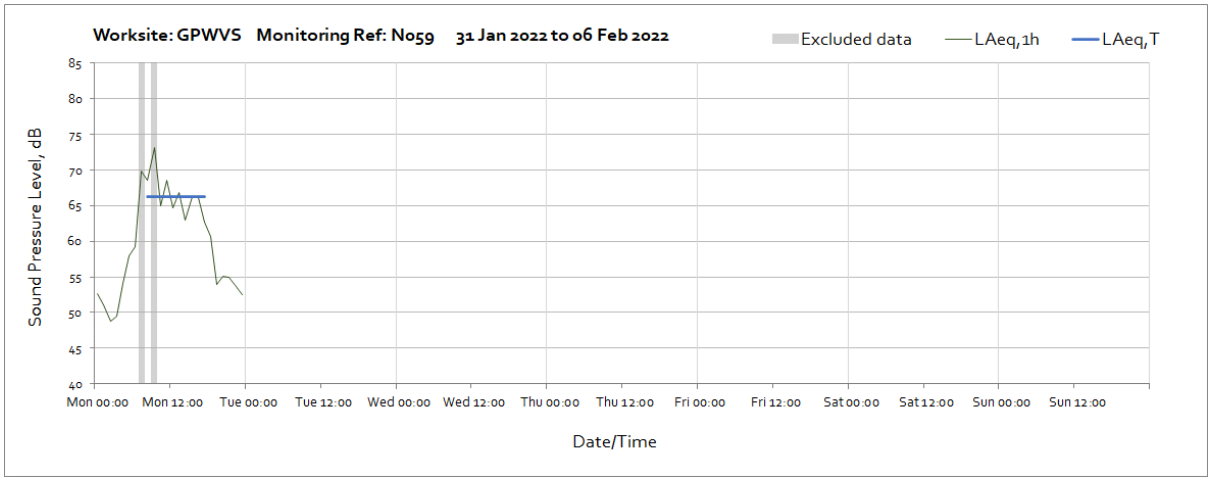
Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.



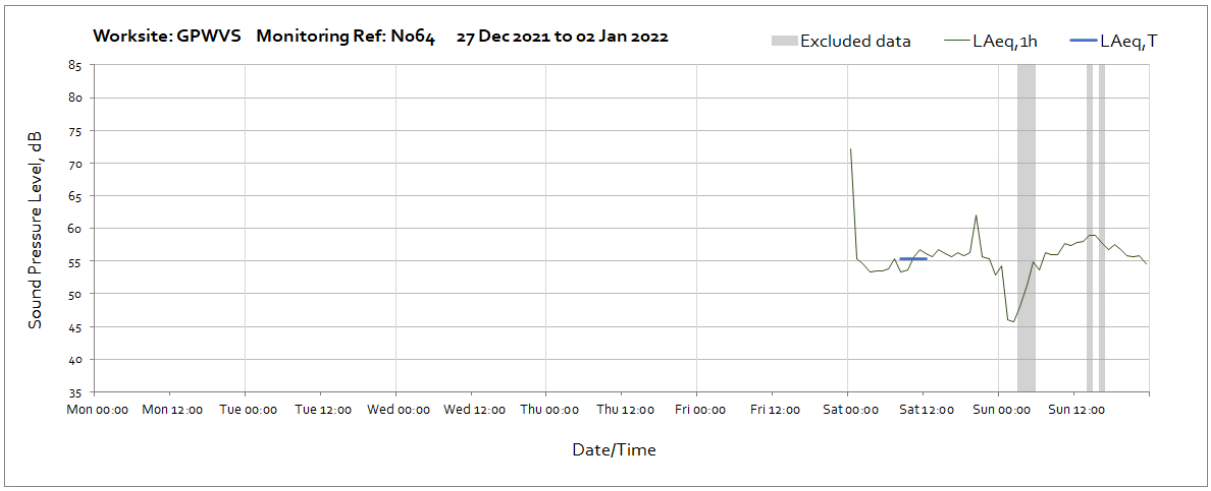

Worksite: GPWVS Monitoring Ref: No59 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: GPWVS Monitoring Ref: No59 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

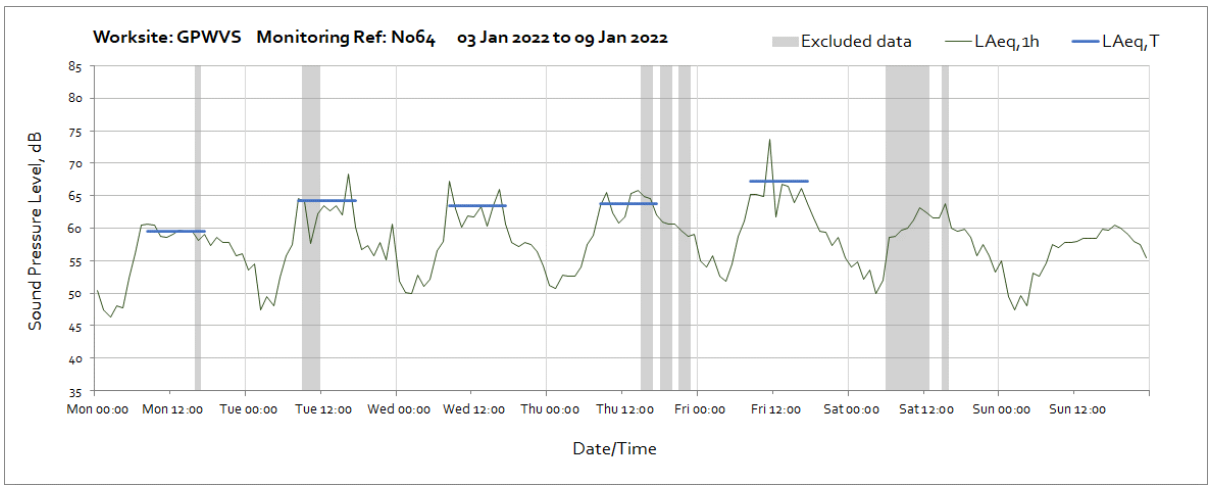

Worksite: GPWVS Monitoring Ref: No59 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

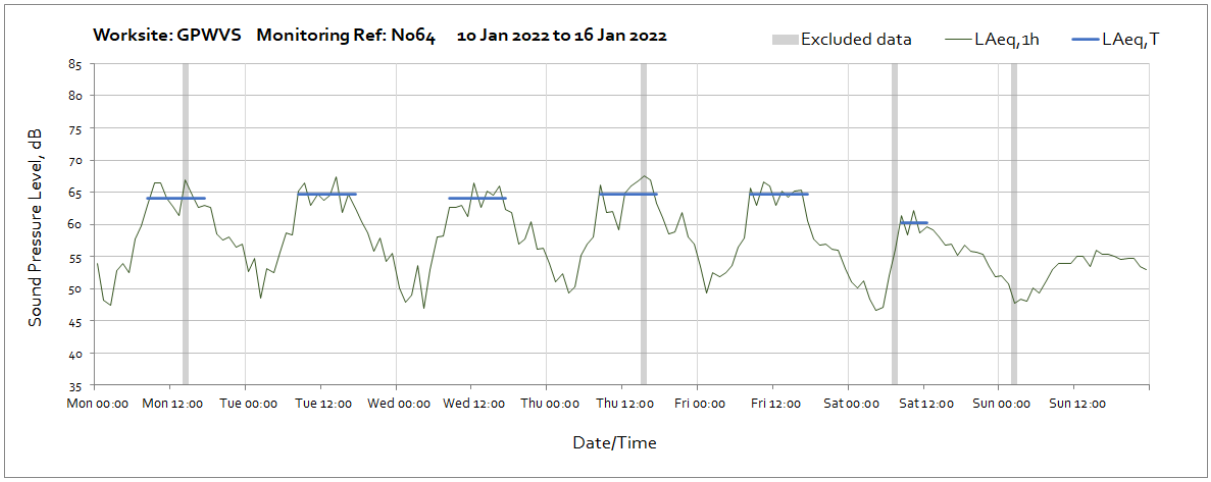


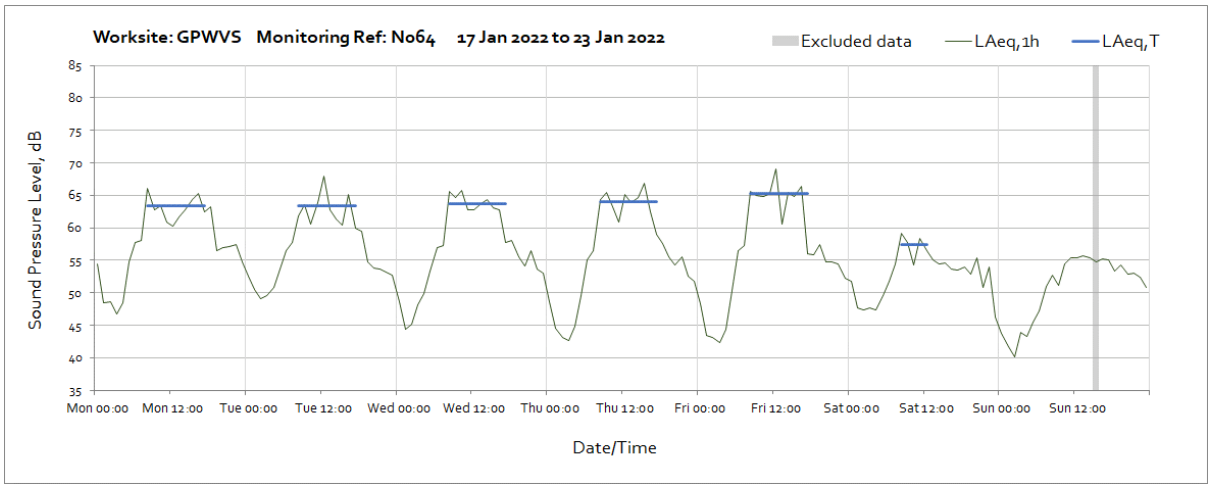
Worksite: Green Park Way Vent Shaft (GPWVS) – Monitoring Ref: N064

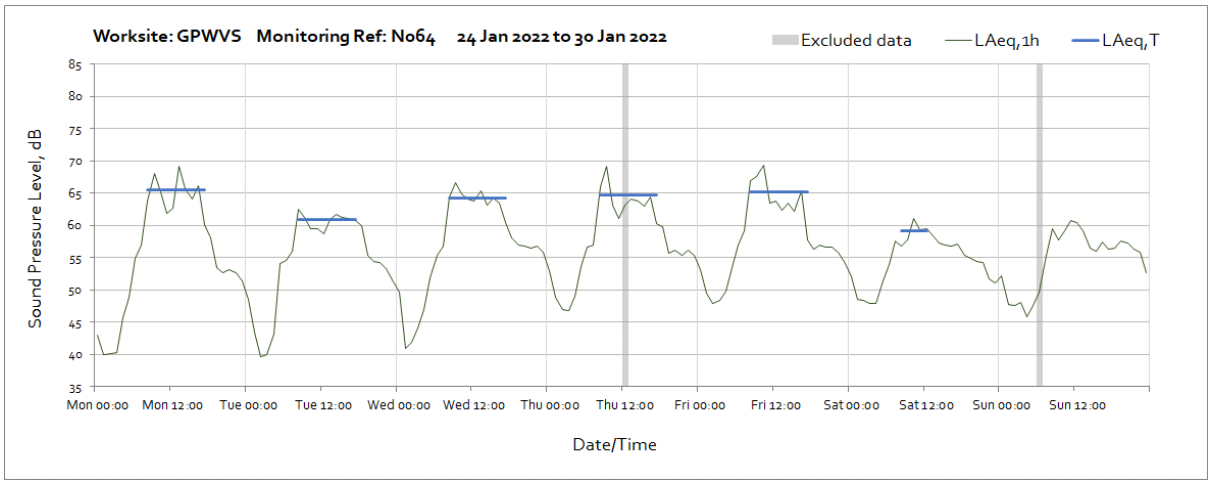


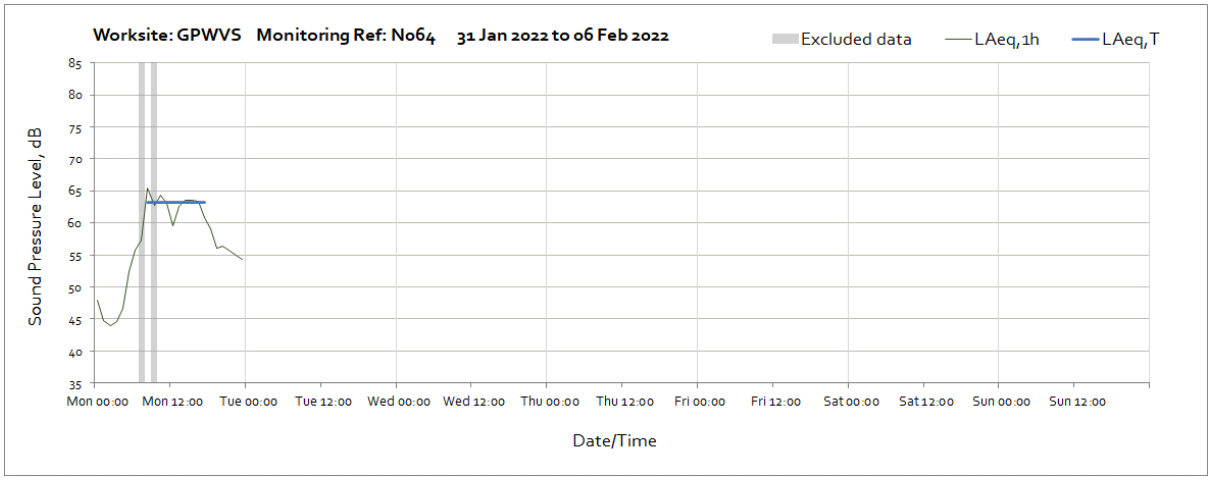
Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.



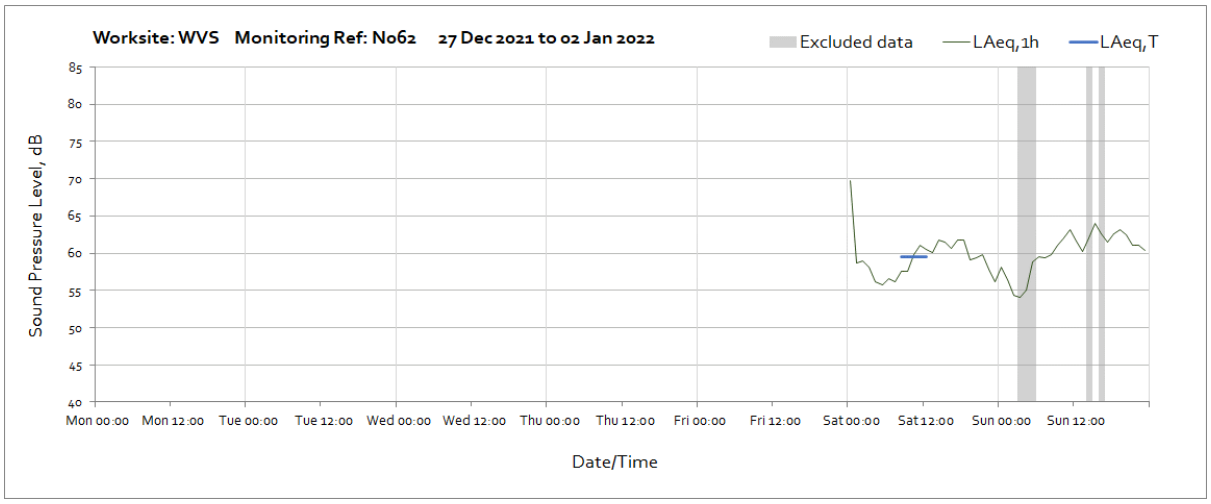

Worksite: GPWVS Monitoring Ref: No64 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: GPWVS Monitoring Ref: No64 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

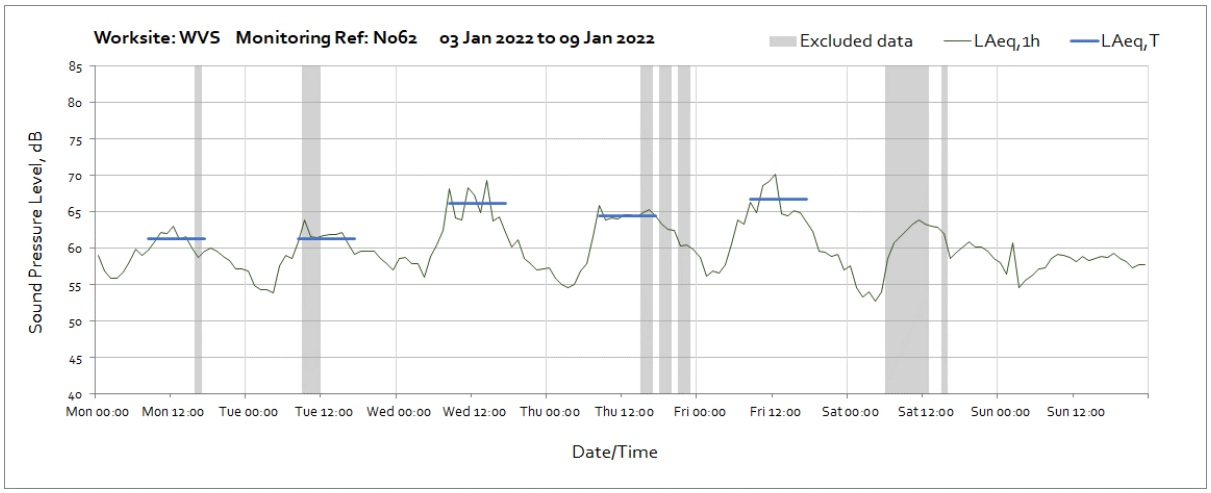

Worksite: GPWVS Monitoring Ref: No64 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

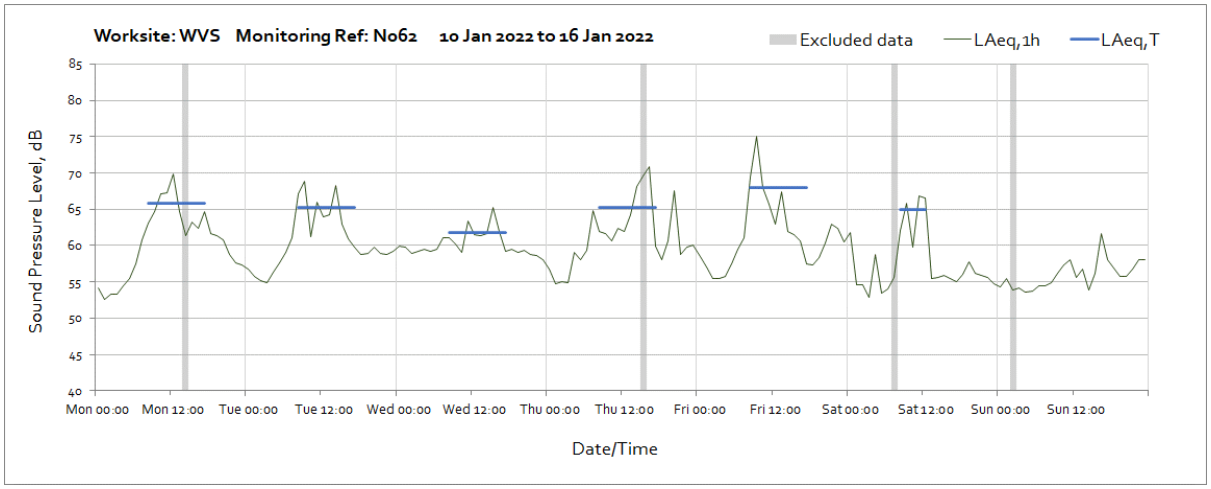


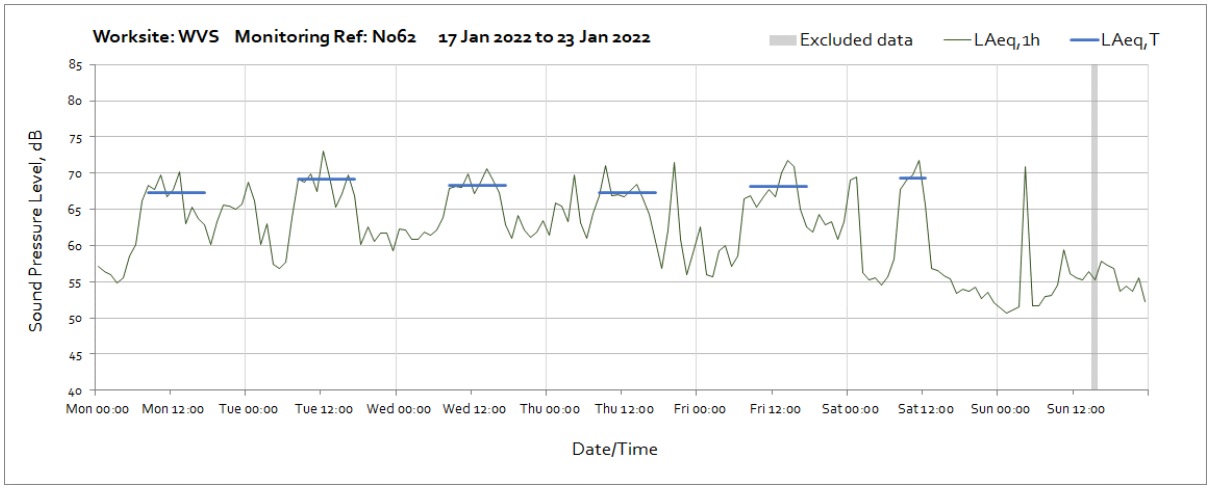
Worksite: Westgate Ventilation Shaft (WVS) – Monitoring Ref: N062

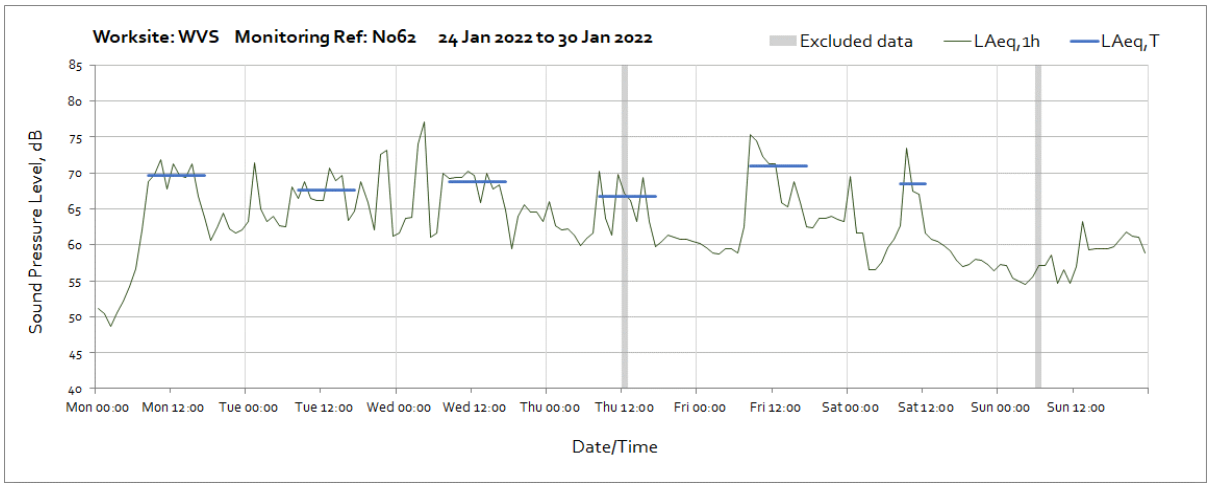


Note: High noise levels measured at 00:00 on Saturday 1st January 2022 were due to New Year's Eve celebrations.




Worksite: WVS Monitoring Ref: No62 10 Jan 2022 to 16 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: WVS Monitoring Ref: No62 17 Jan 2022 to 23 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: WVS Monitoring Ref: No62 24 Jan 2022 to 30 Jan 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
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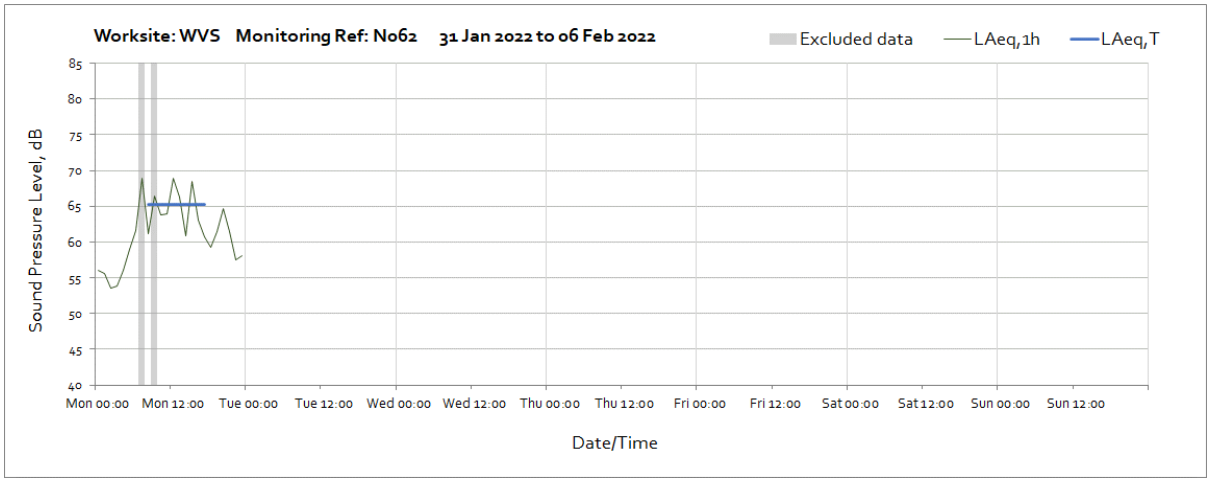
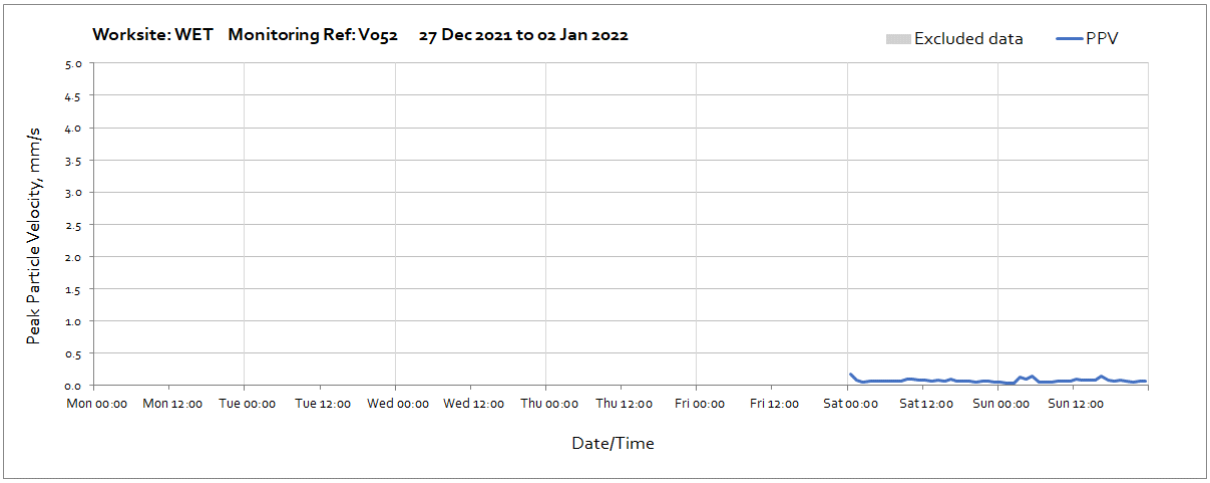
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

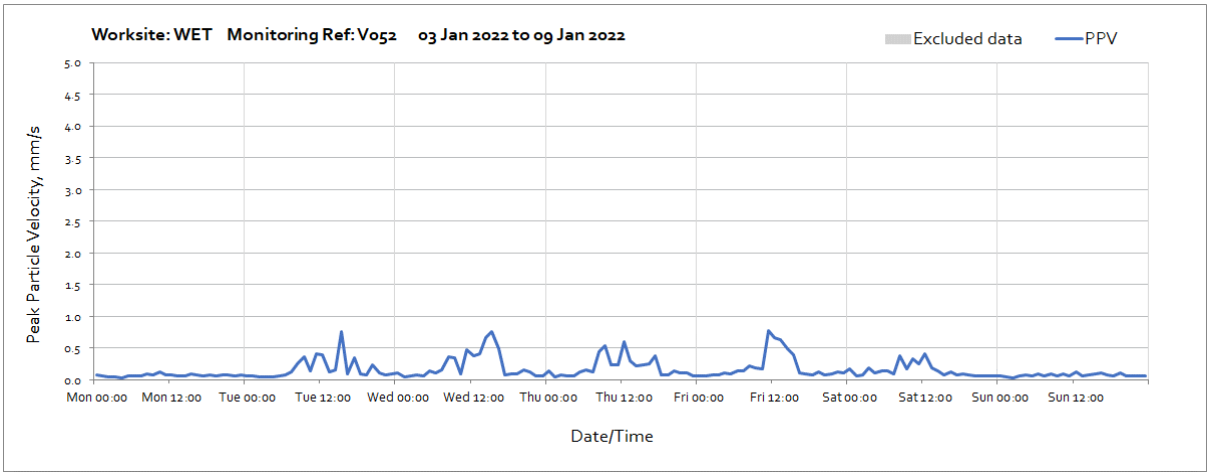

Worksite: WVS Monitoring Ref: No62 31 Jan 2022 to 06 Feb 2022
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

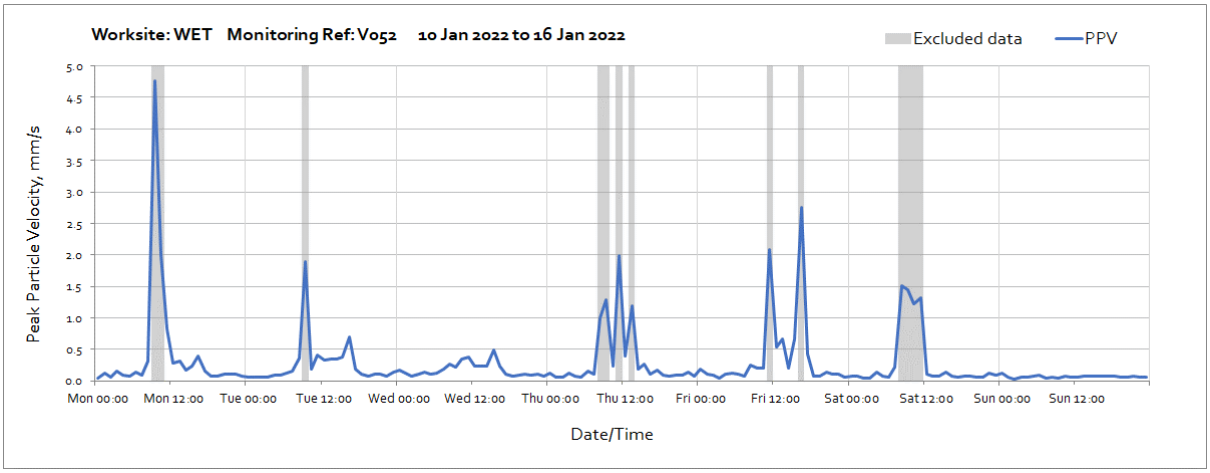
Vibration

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. 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.

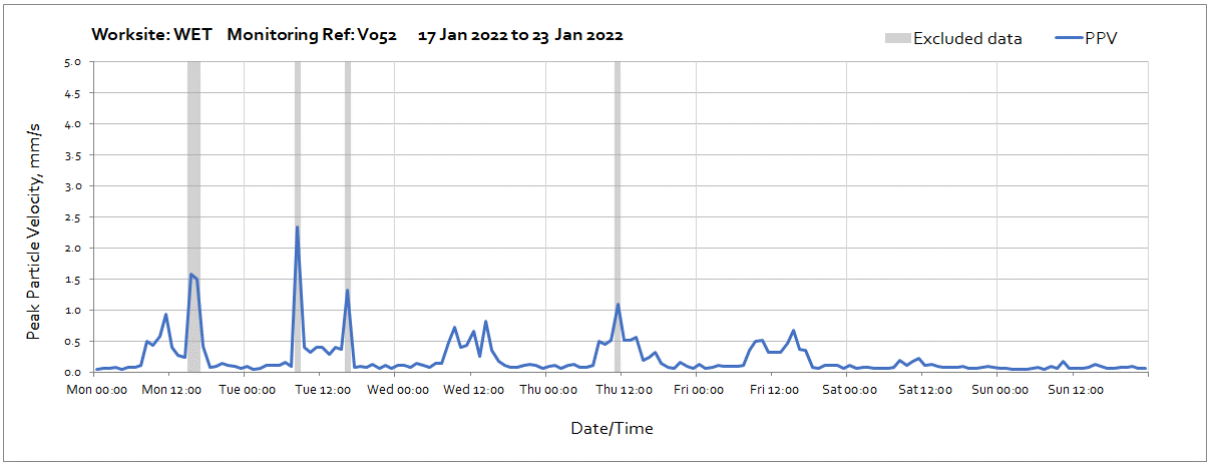
Worksite: Willesden Euro Terminal (WET) – Monitoring Ref: V052



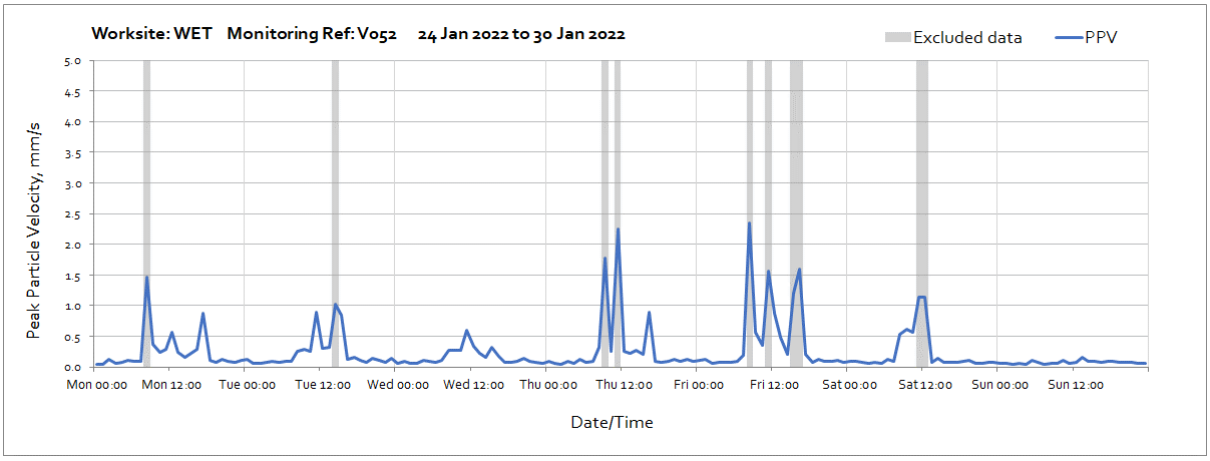




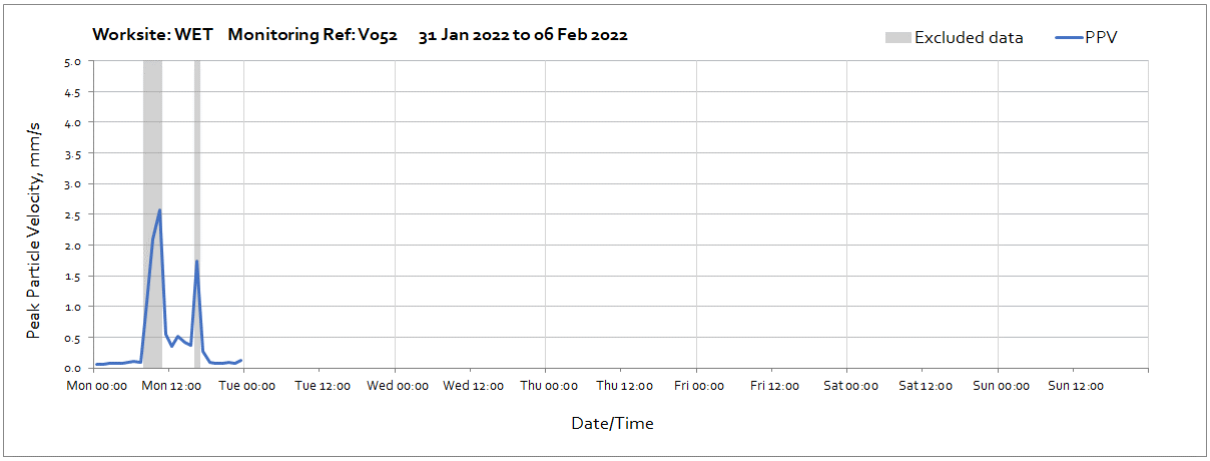
Note: High vibration levels measured across the week were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.



Note: High vibration levels measured across the week were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.

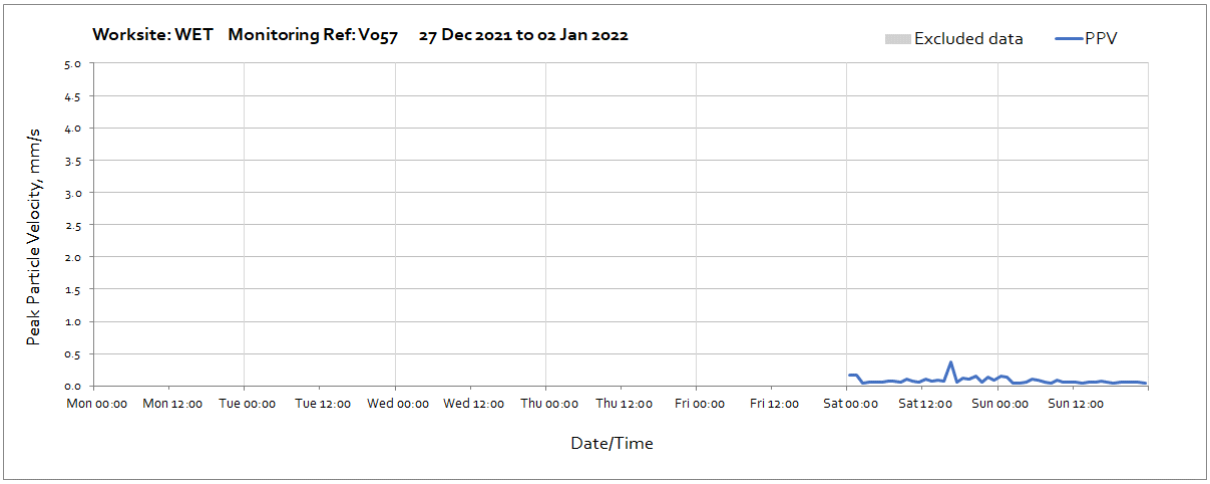


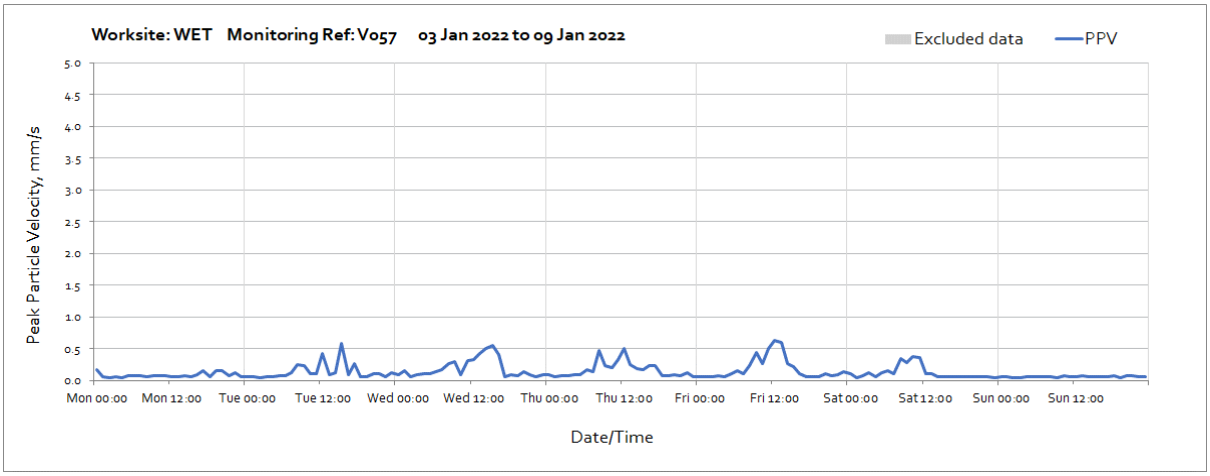
Note: High vibration levels measured across the week were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.

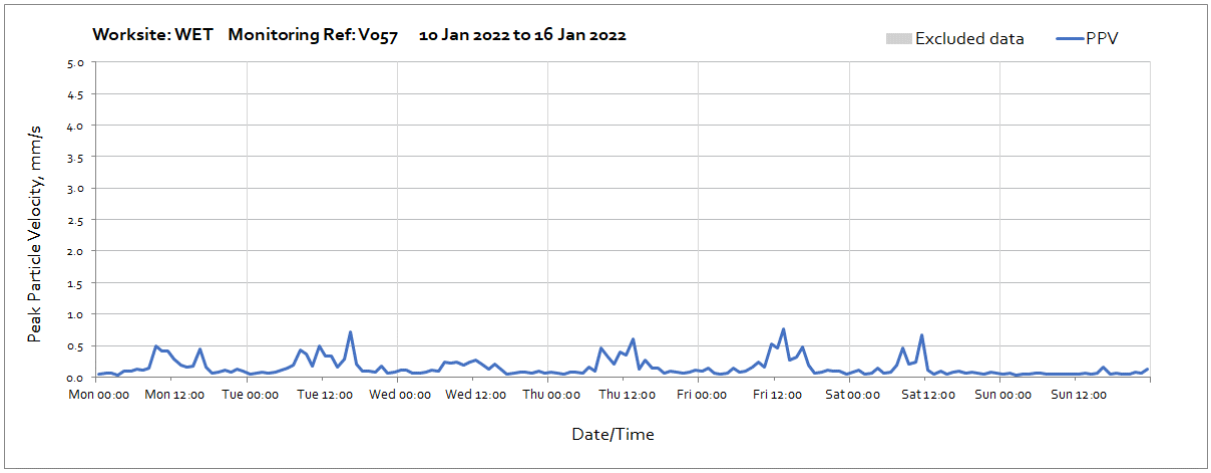


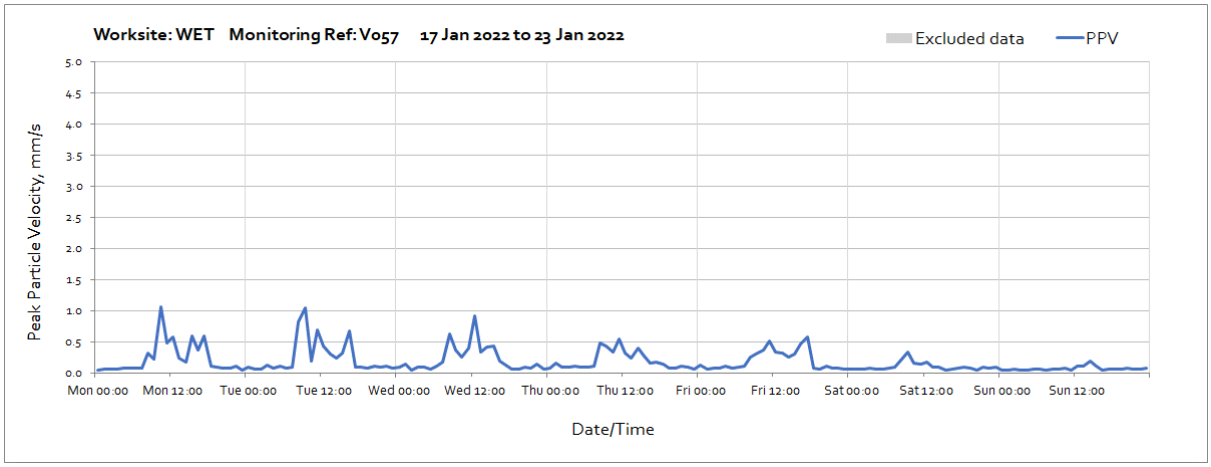
Note: High vibration levels measured across the week were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.

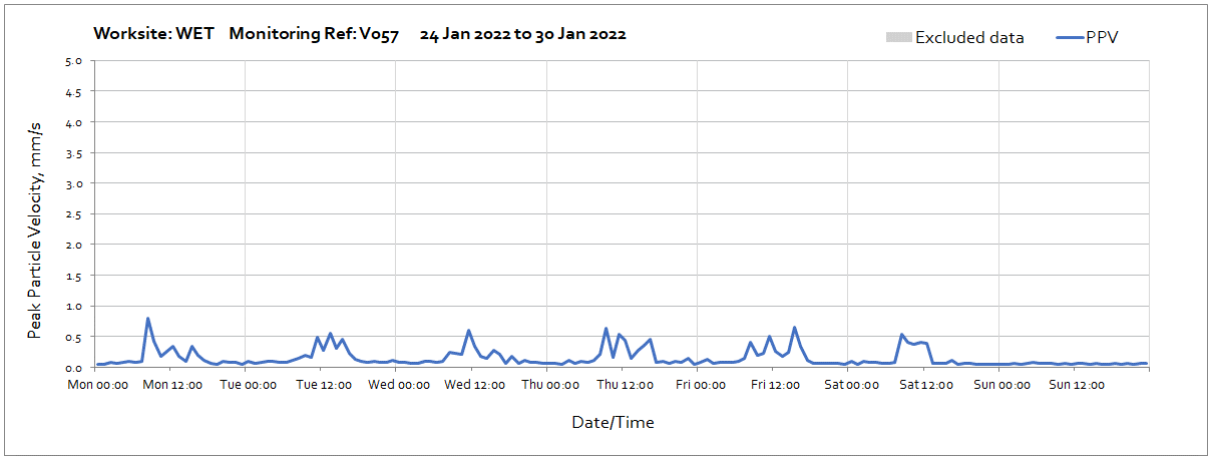
Worksite: Willesden Euro Terminal (WET) – Monitoring Ref: V057

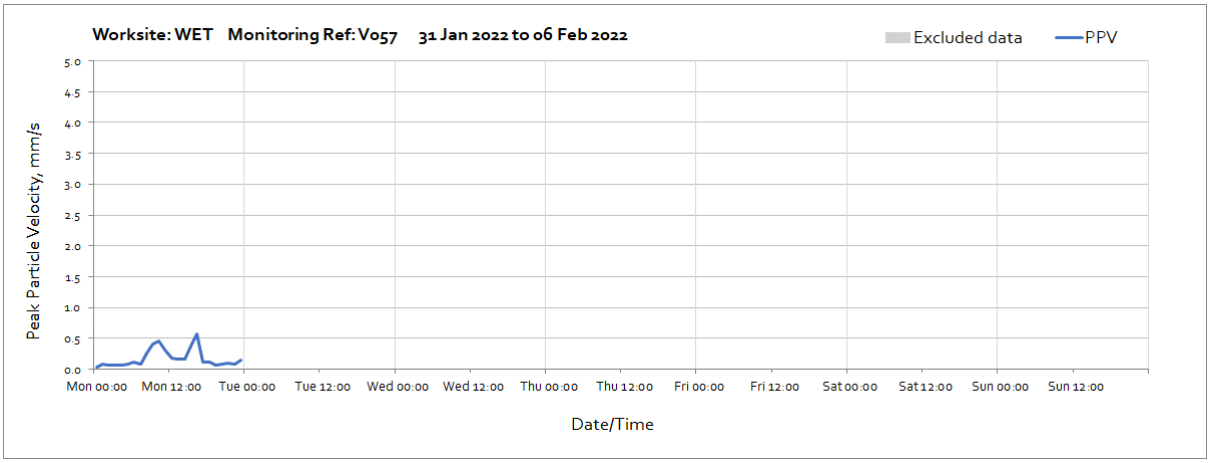




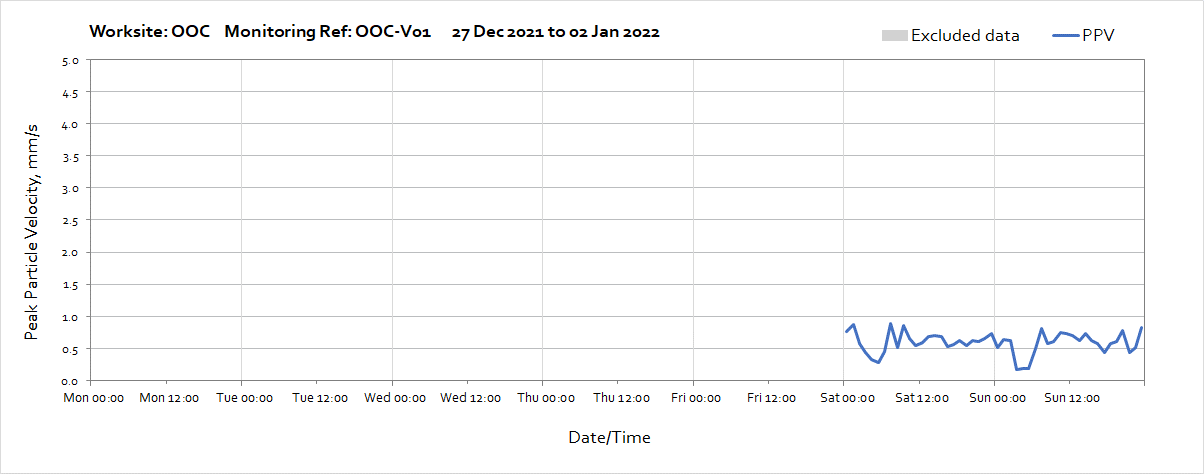

Worksite: WET Monitoring Ref: V057 10 Jan 2022 to 16 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

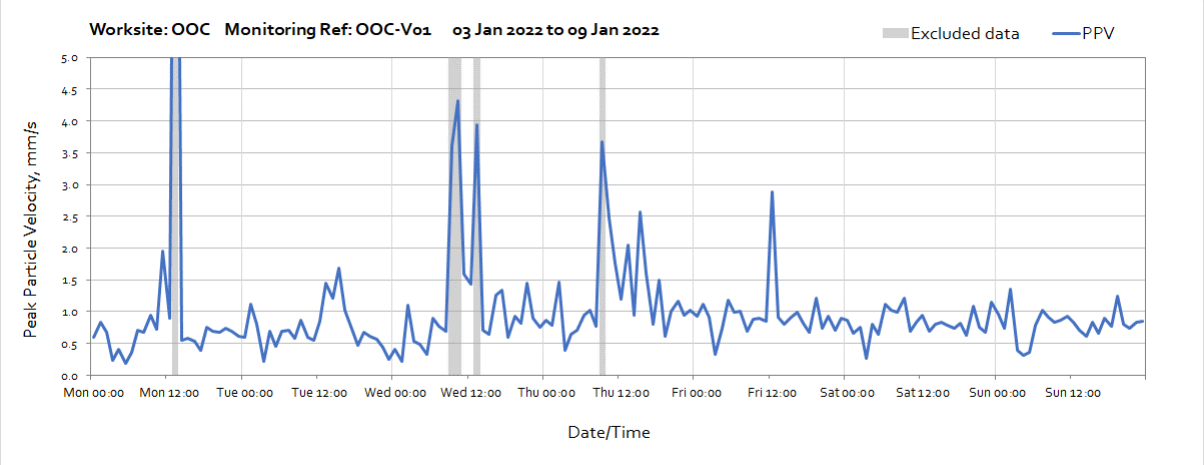

Worksite: WET Monitoring Ref: V057 17 Jan 2022 to 23 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: WET Monitoring Ref: V057 24 Jan 2022 to 30 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

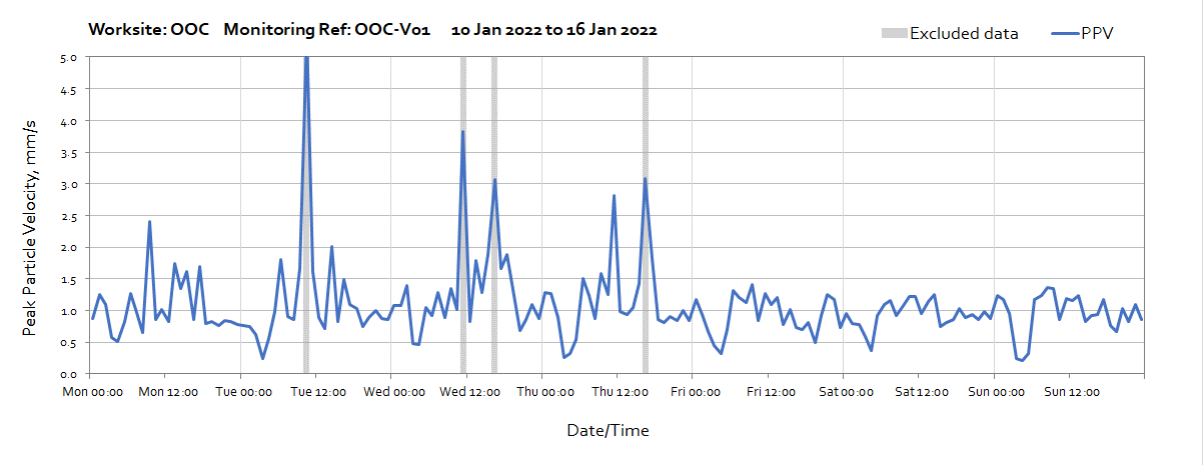


Worksite: Old Oak Common (OOC) – Monitoring Ref: OOC-V01

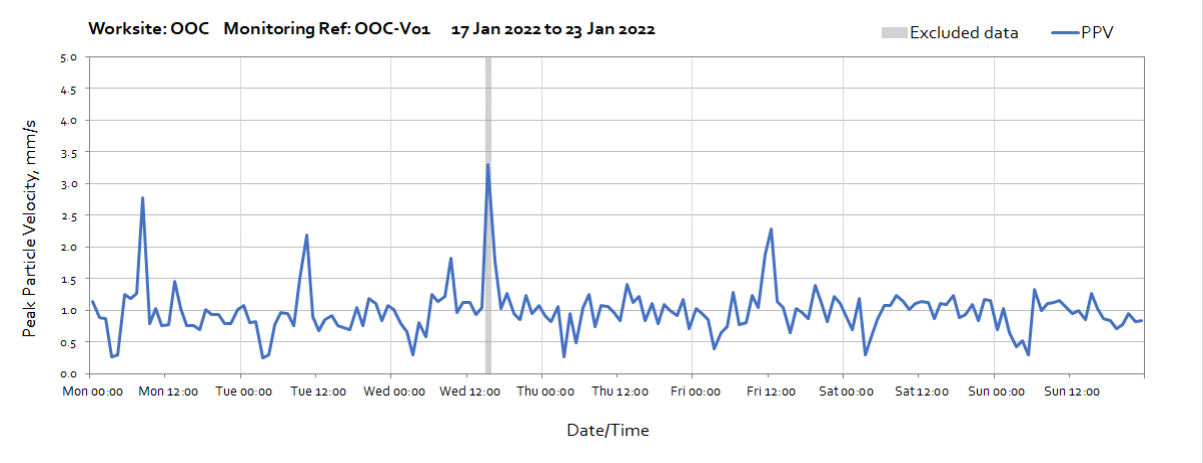




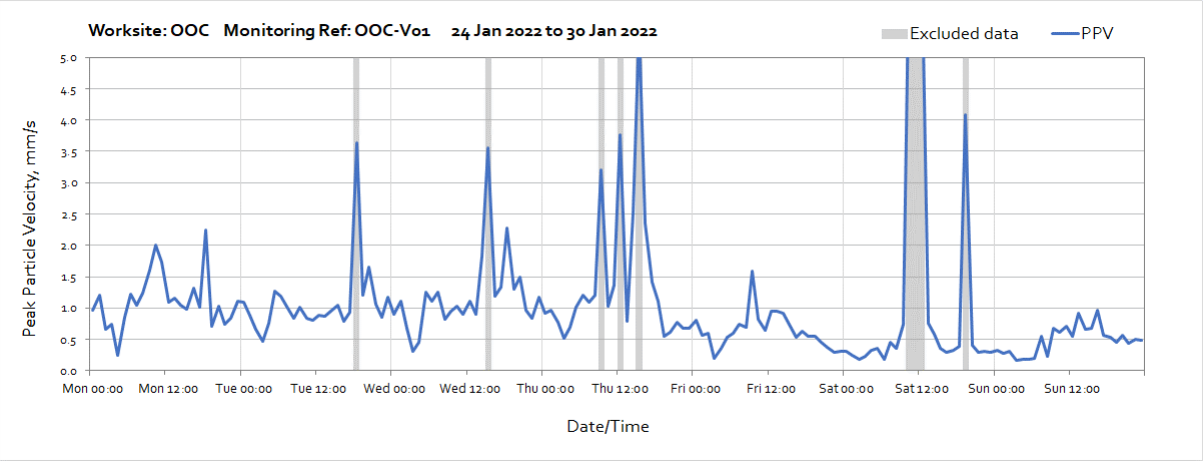
Note: High vibration levels measured across the week were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.



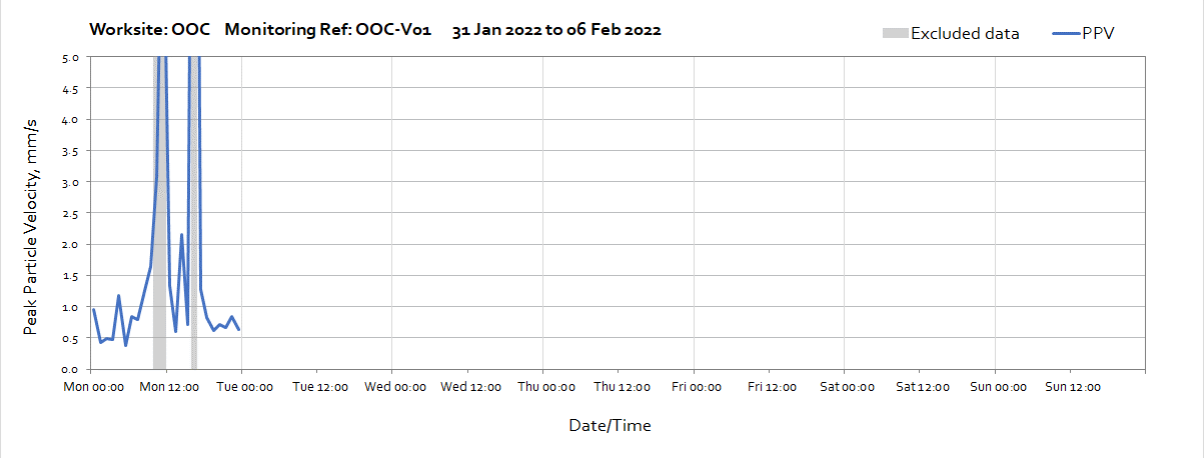
Note: High vibration levels measured across the week were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.



Note: High vibration levels measured at 15:00 on Wednesday 19th January 2022 were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.

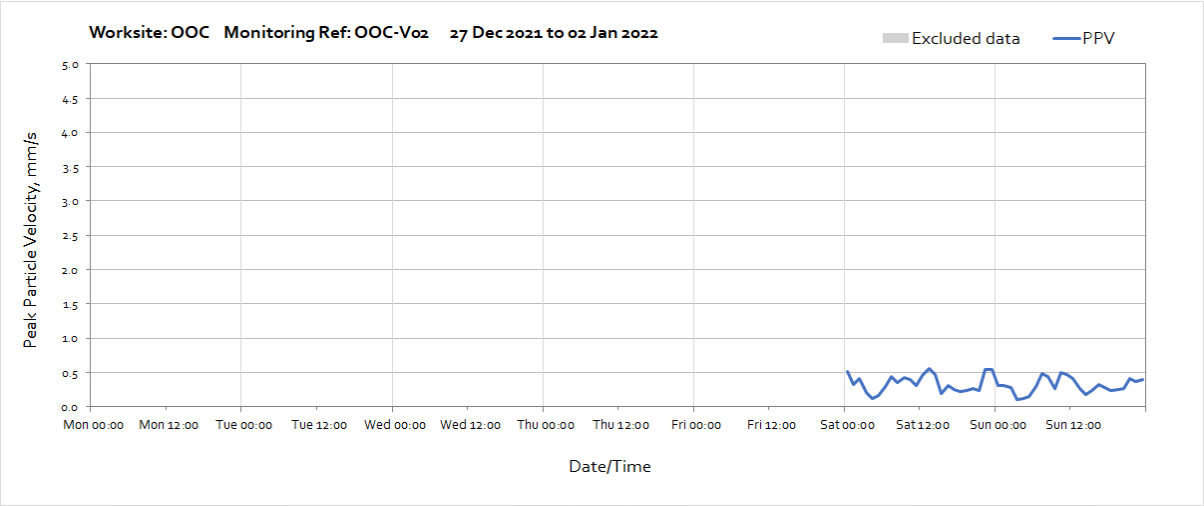


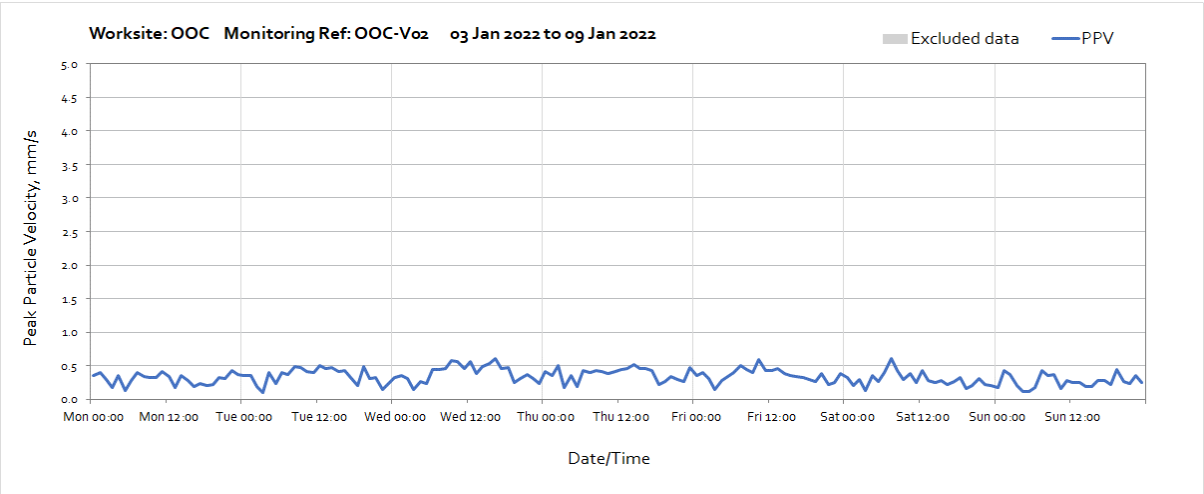
Note: High vibration levels measured across the week were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.

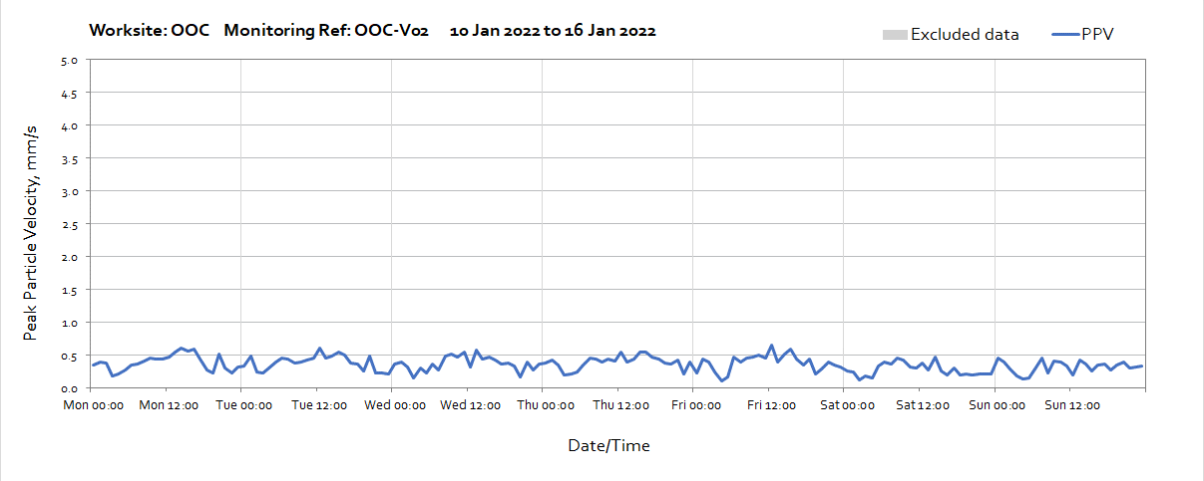


Note: High vibration levels measured between 10:00 and 11:00 and at 16:00 on Monday 31st January 2022 were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.

Worksite: Old Oak Common (OOC) – Monitoring Ref: OOC-V02






Worksite: OOC Monitoring Ref: OOC-Vo2 10 Jan 2022 to 16 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
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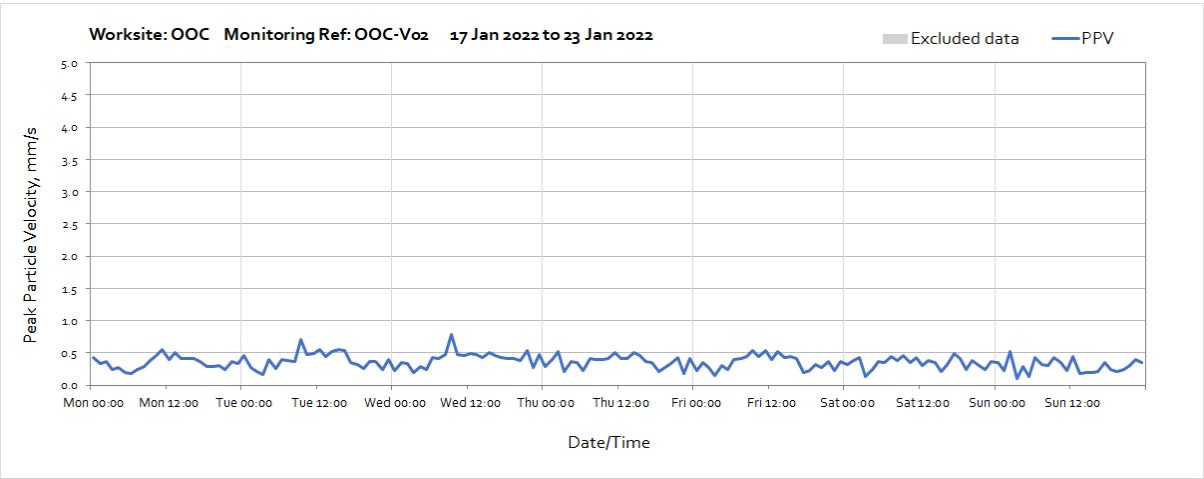
Sun 00:00
Sun 12:00
Date/Time


Worksite: OOC Monitoring Ref: OOC-Vo2 17 Jan 2022 to 23 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
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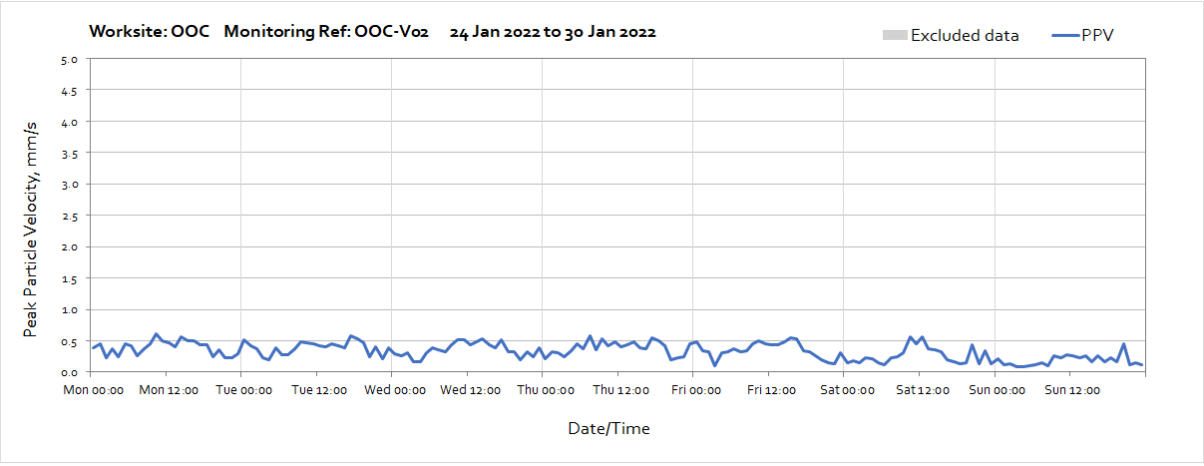
Sun 00:00
Sun 12:00
Date/Time


Worksite: OOC Monitoring Ref: OOC-Vo2 24 Jan 2022 to 30 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
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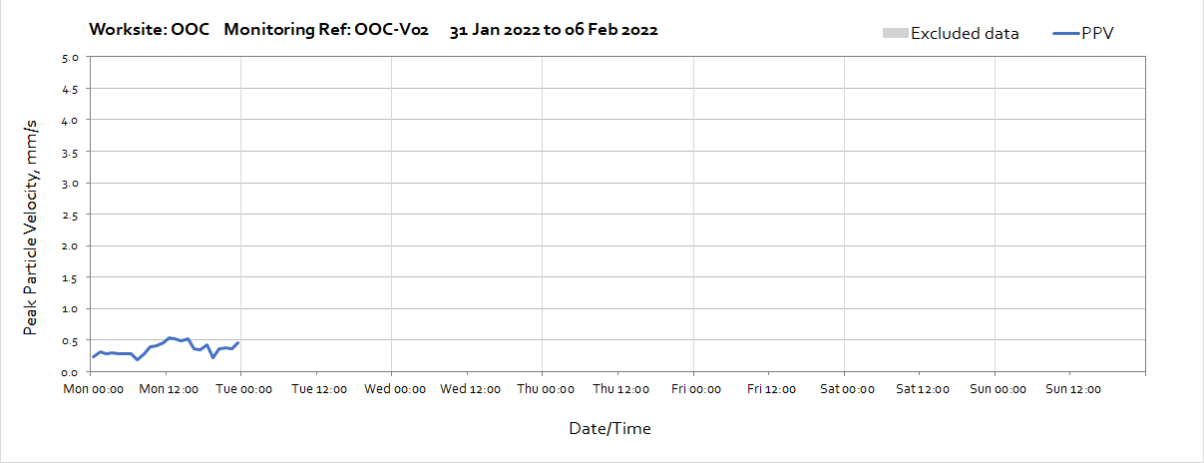
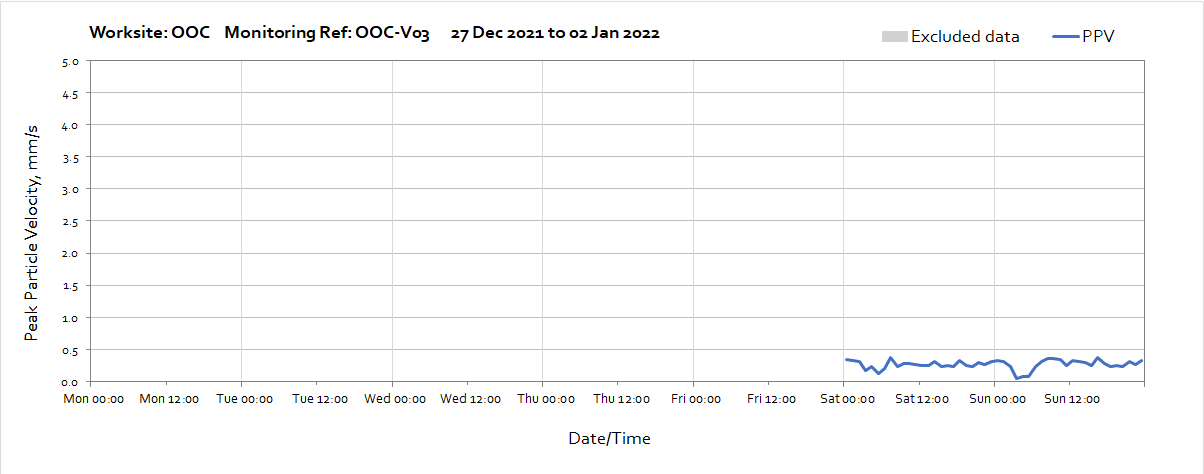
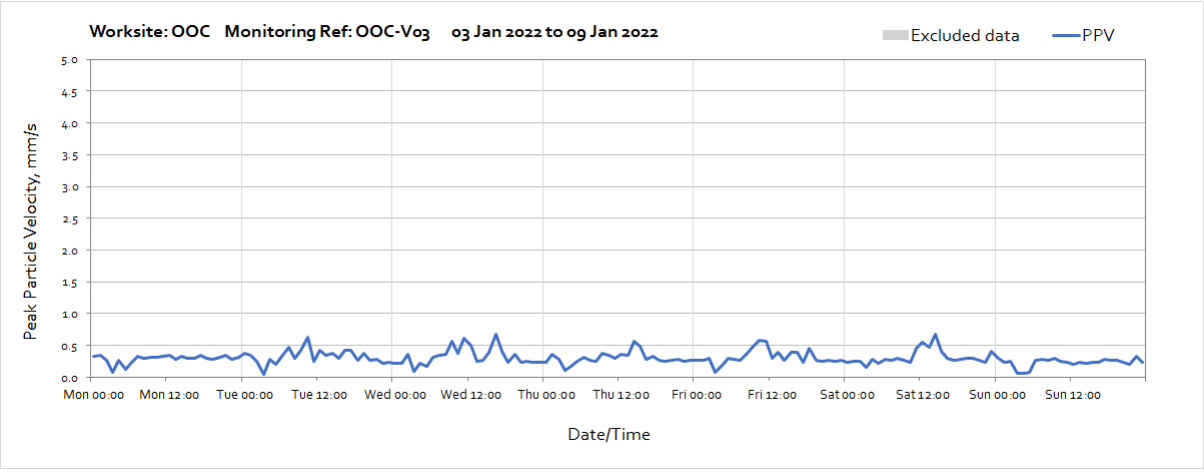
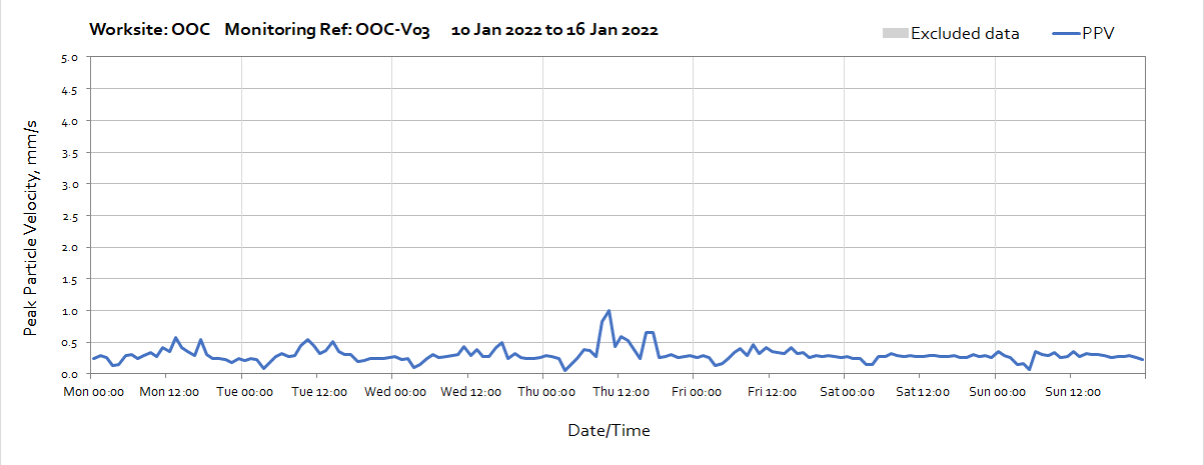
Sun 00:00
Sun 12:00
Date/Time

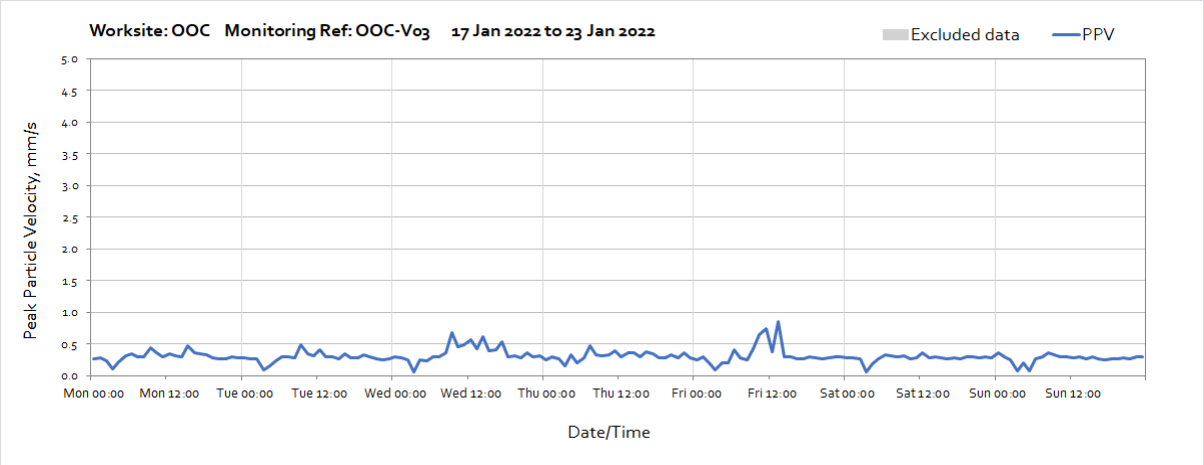


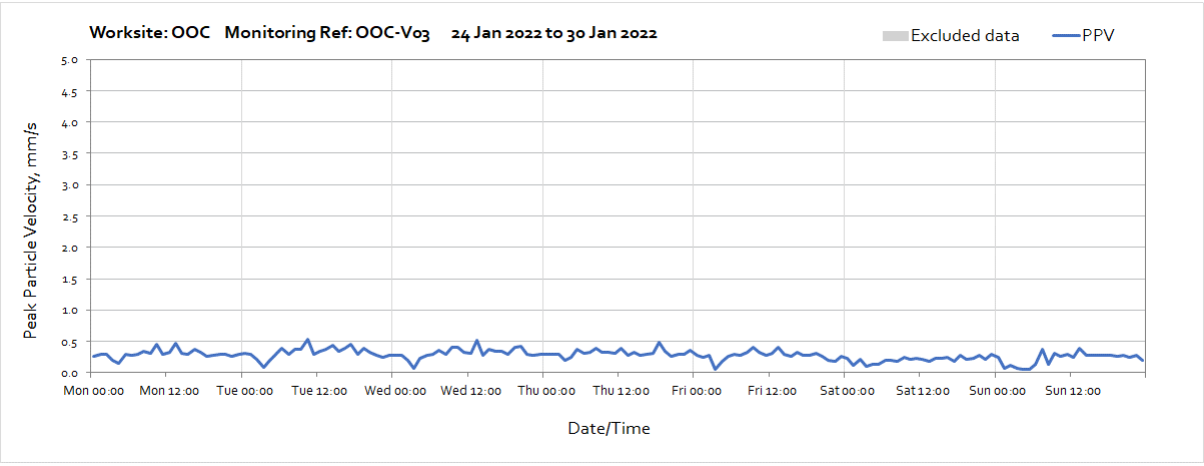
Worksite: Old Oak Common (OOC) – Monitoring Ref: OOC-V03

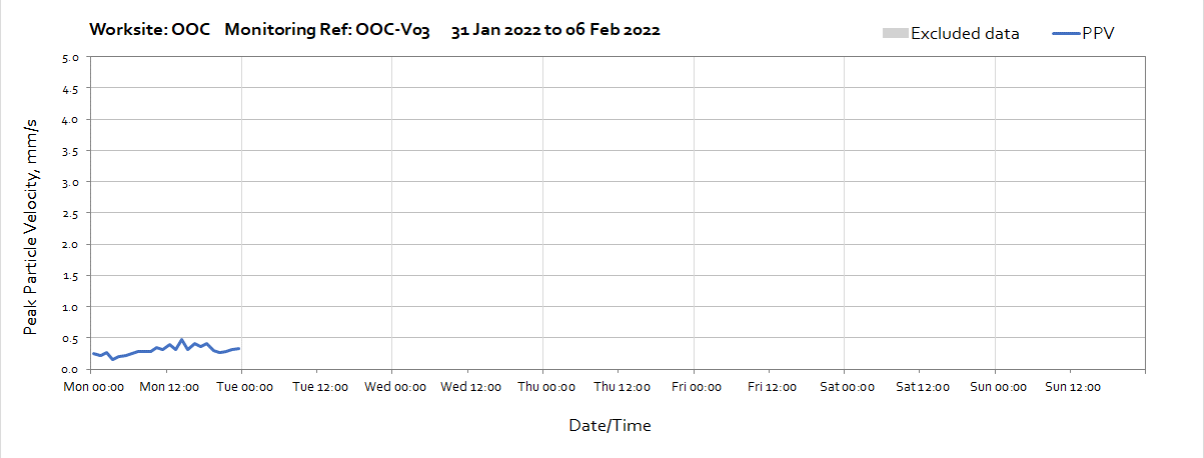




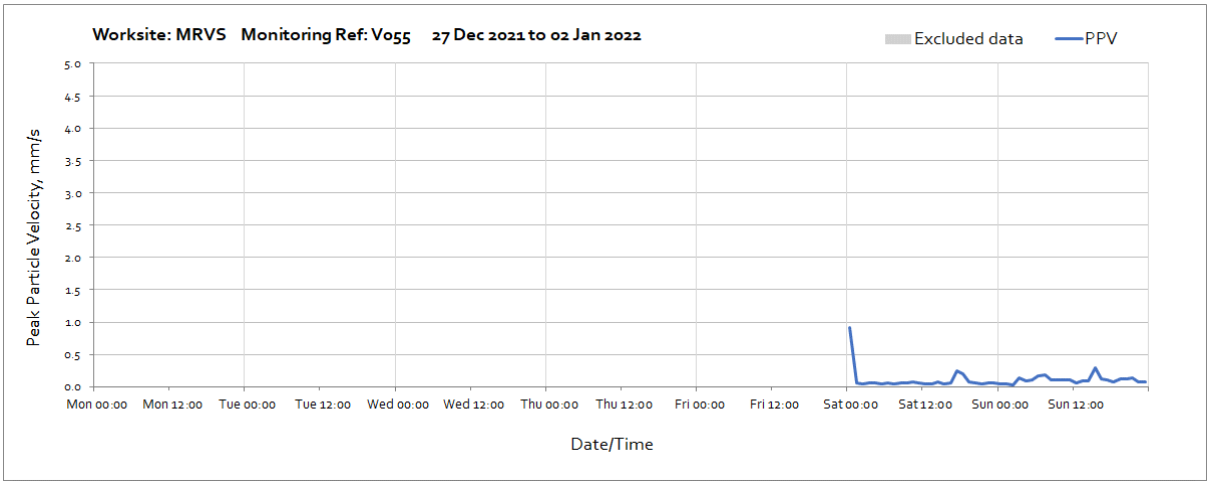

Worksite: OOC Monitoring Ref: OOC-V03 10 Jan 2022 to 16 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

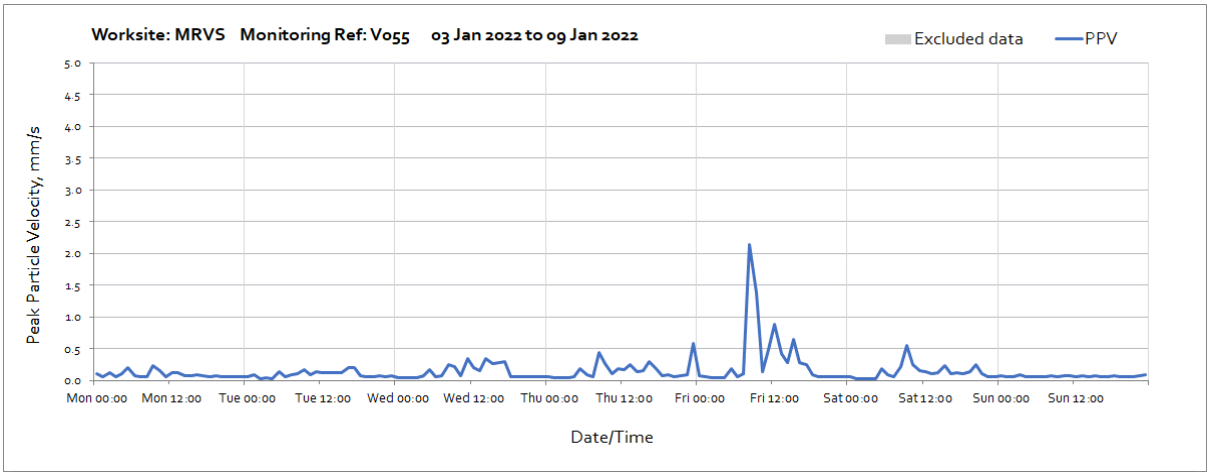

Worksite: OOC Monitoring Ref: OOC-V03 17 Jan 2022 to 23 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

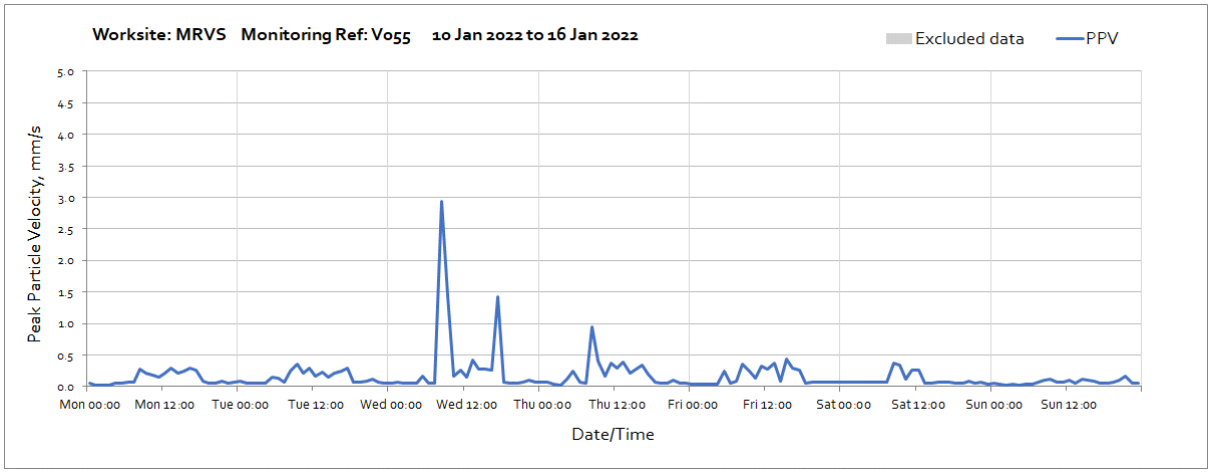

Worksite: OOC Monitoring Ref: OOC-V03 24 Jan 2022 to 30 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

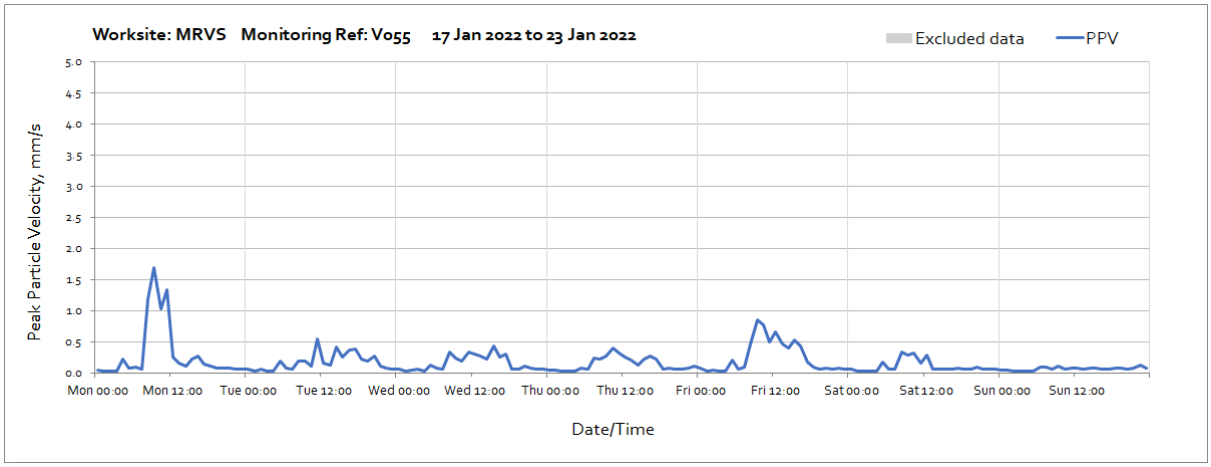


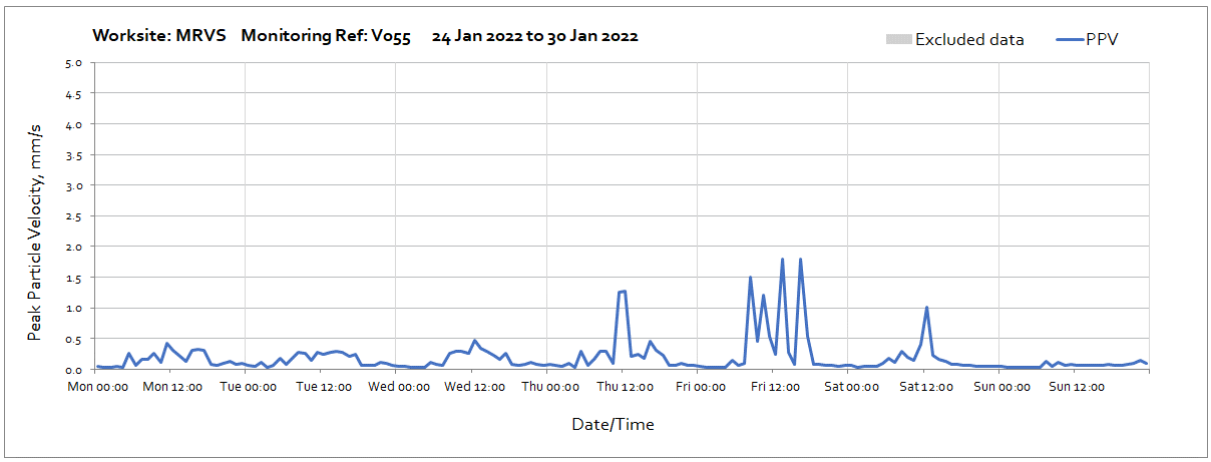
Worksite: Mandeville Road Vent Shaft (MRVS) – Monitoring Ref: V055






Worksite: MRVS Monitoring Ref: V055 10 Jan 2022 to 16 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: MRVS Monitoring Ref: V055 17 Jan 2022 to 23 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: MRVS Monitoring Ref: V055 24 Jan 2022 to 30 Jan 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
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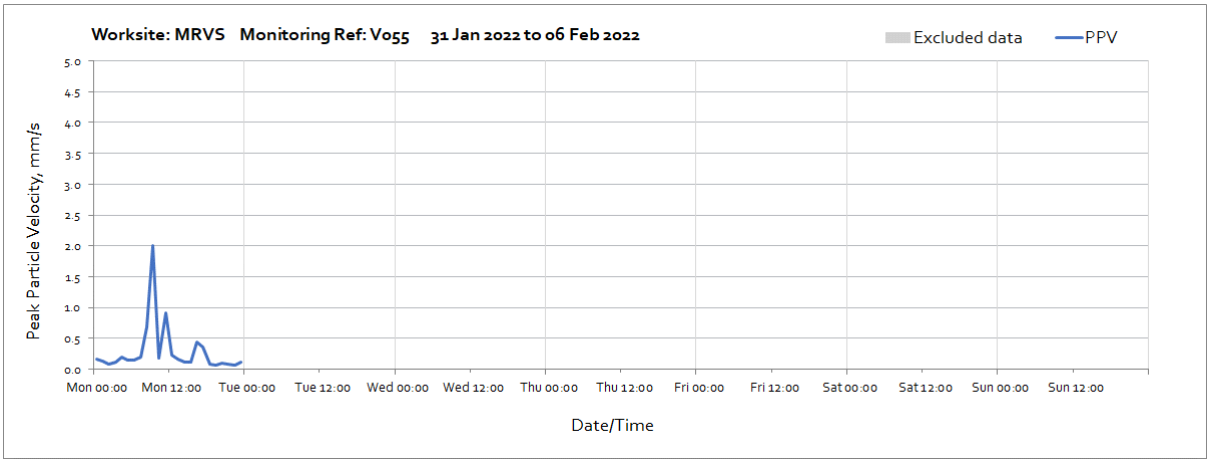
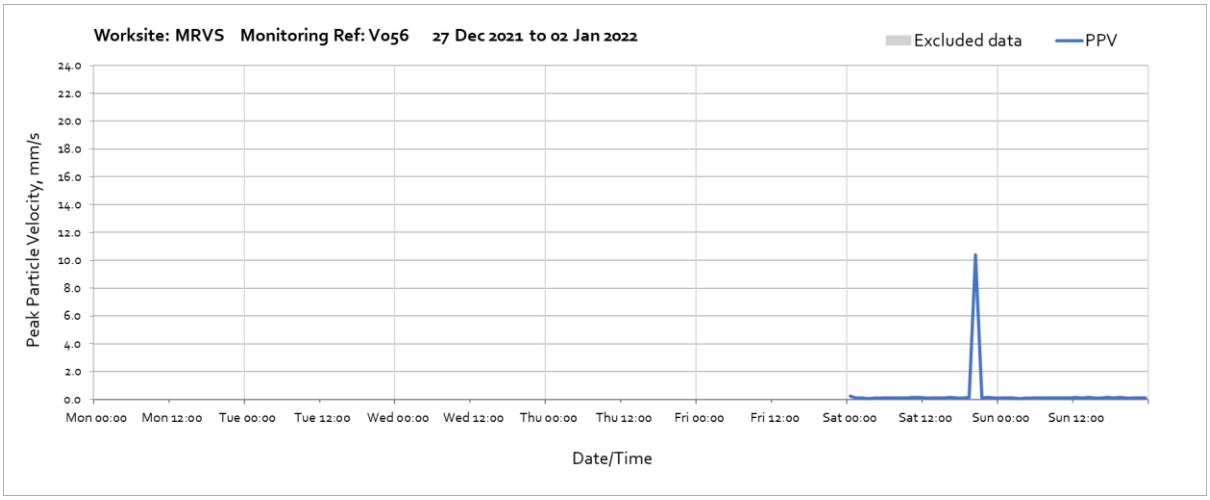
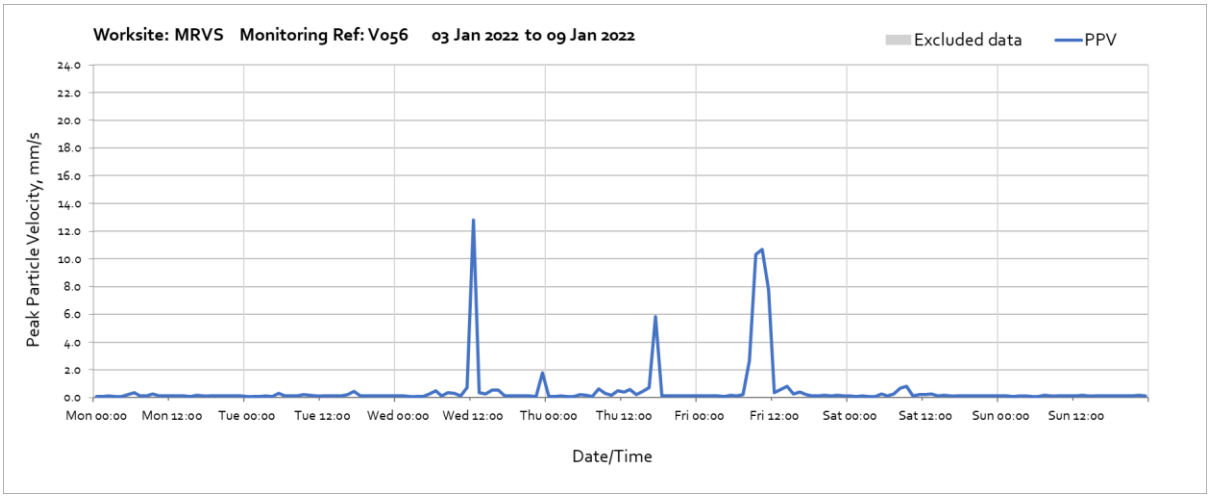
Sun 00:00
Sun 12:00
Date/Time



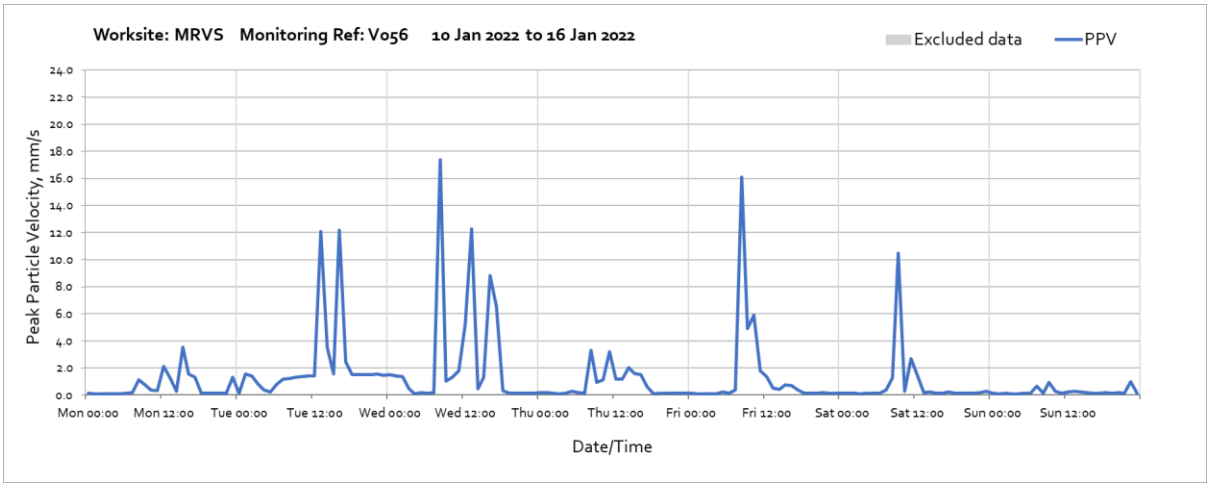
Worksite: Mandeville Road Vent Shaft (MRVS) – Monitoring Ref: V056



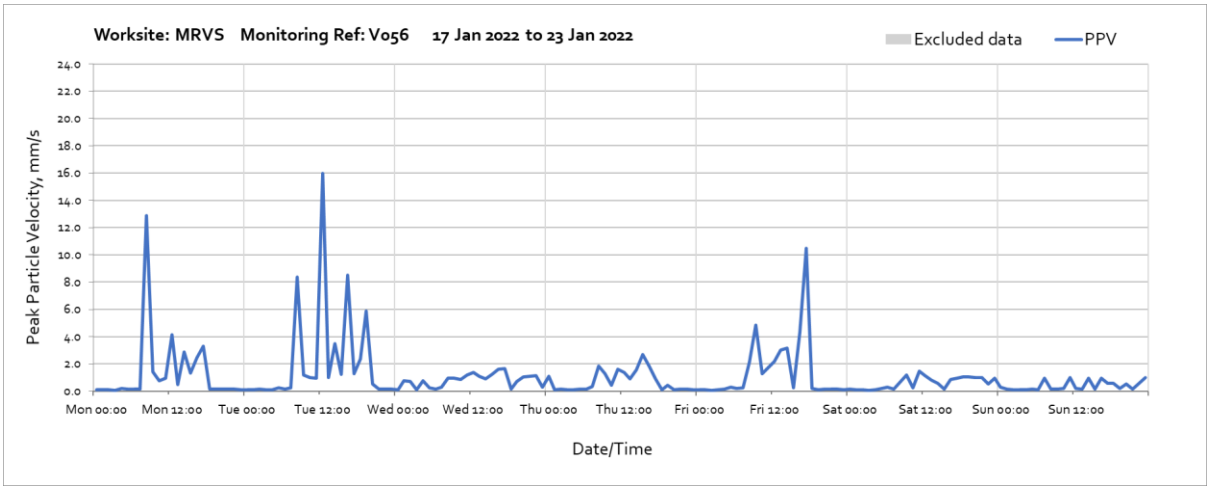
Note: High vibration levels are due to works undertaken in close proximity of the vibration monitoring location, which is temporarly located whitin the worksite. The nearest residential receptors are further away from the works and viration levels at the receptors will therefore be lower.



Note: High vibration levels are due to works undertaken in close proximity of the vibration monitoring location, which is temporarly located whitin the worksite. The nearest residential receptors are further away from the works and viration levels at the receptors will therefore be lower.

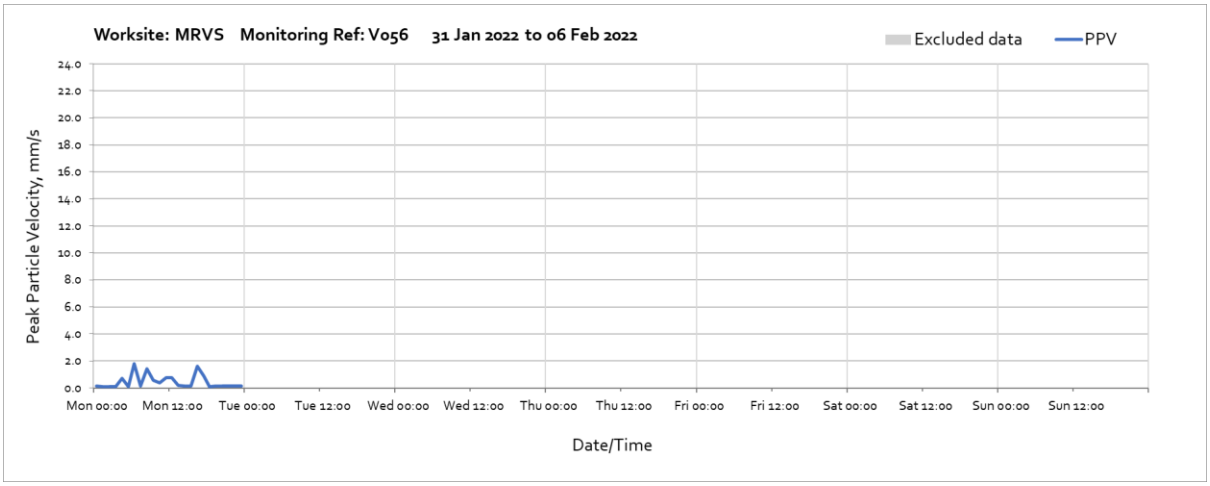


Note: High vibration levels are due to works undertaken in close proximity of the vibration monitoring location, which is temporarly located whitin the worksite. The nearest residential receptors are further away from the works and viration levels at the receptors will therefore be lower.



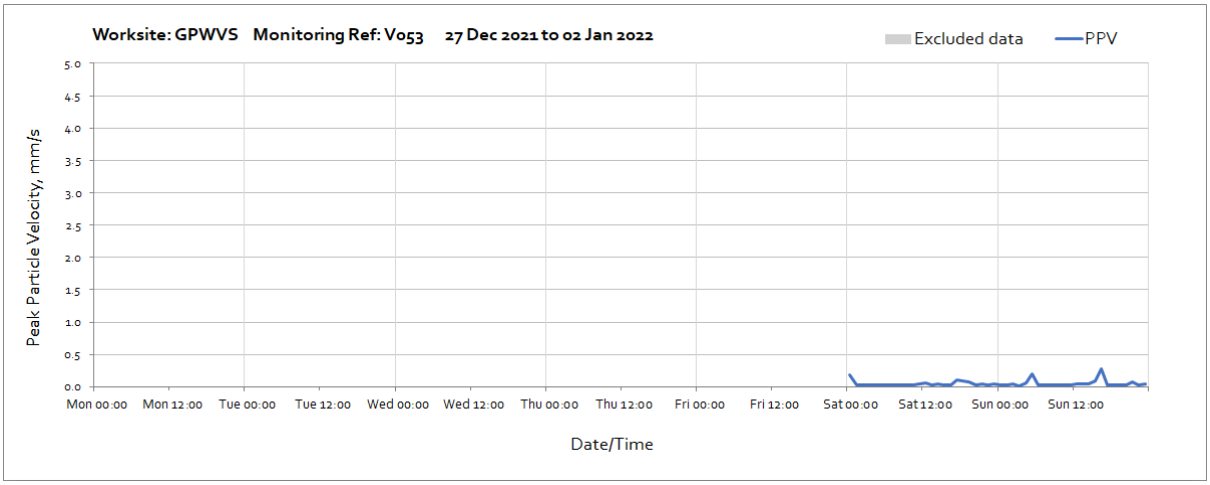
Note: High vibration levels are due to works undertaken in close proximity of the vibration monitoring location, which is temporarly located whitin the worksite. The nearest residential receptors are further away from the works and viration levels at the receptors will therefore be lower.

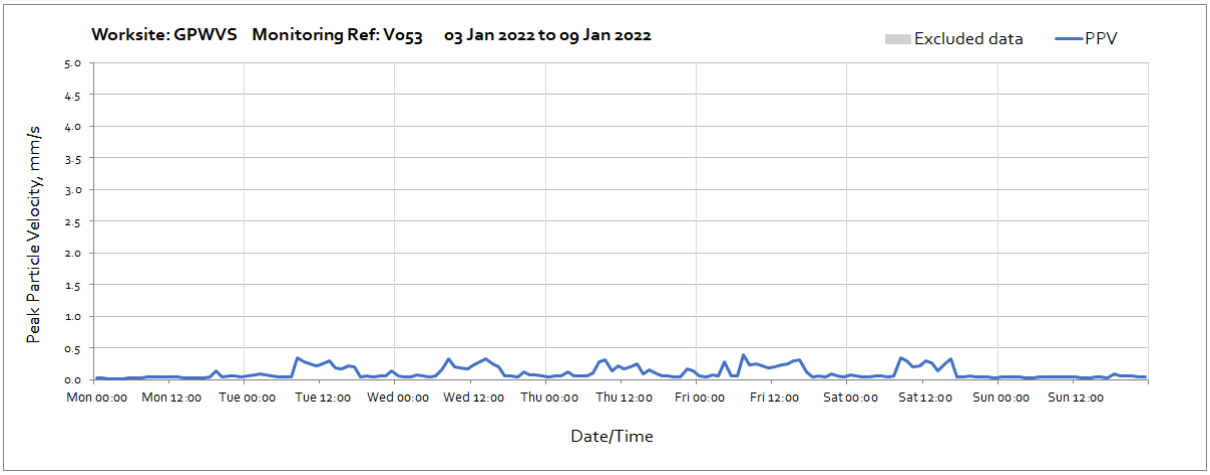
Note: High vibration levels are due to works undertaken in close proximity of the vibration monitoring location, which is temporarly located whitin the worksite. The nearest residential receptors are further away from the works and viration levels at the receptors will therefore be lower.

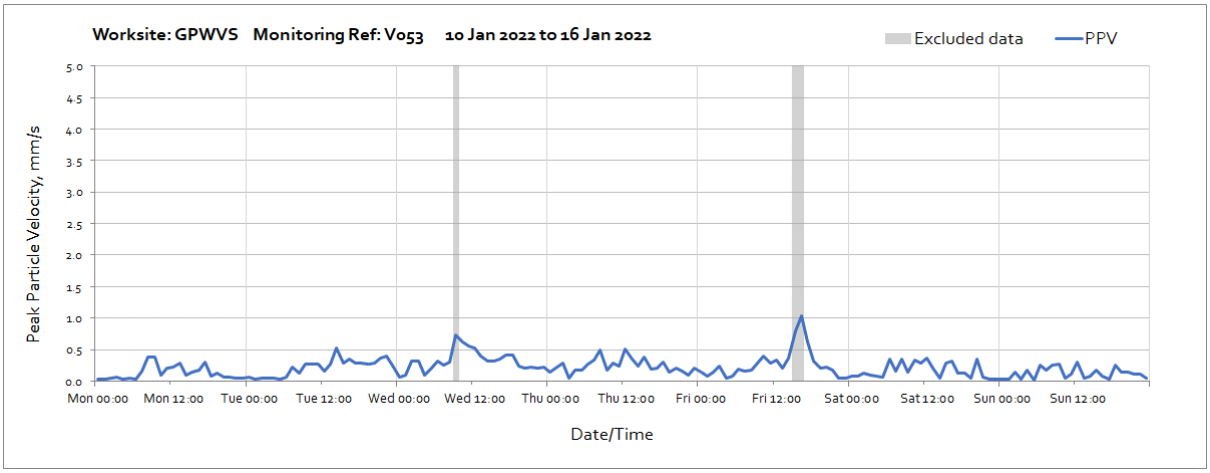


Note: High vibration levels are due to works undertaken in close proximity of the vibration monitoring location, which is temporarly located whitin the worksite. The nearest residential receptors are further away from the works and viration levels at the receptors will therefore be lower.

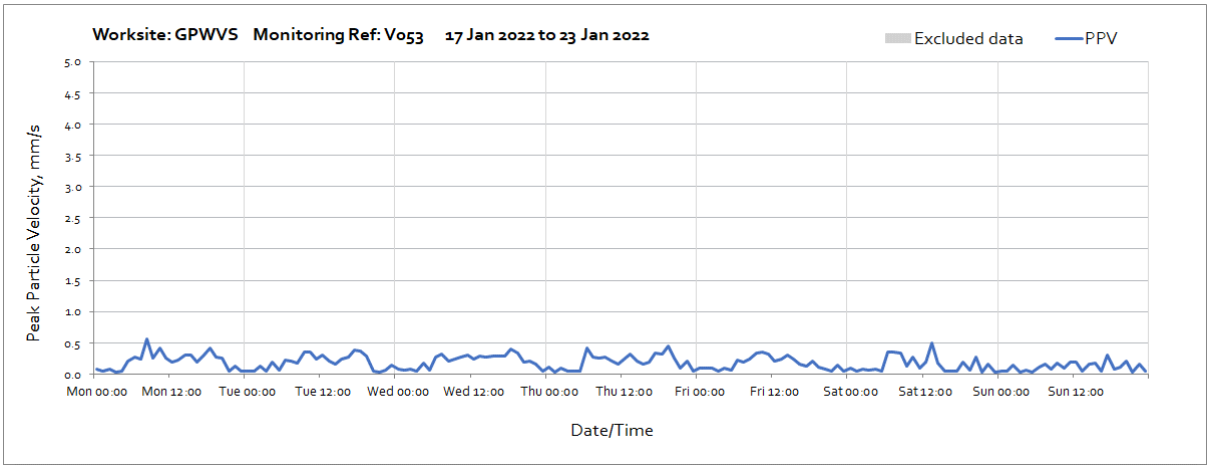
Worksite: Green Park Way Vent Shaft (GPWVS) – Monitoring Ref: V053

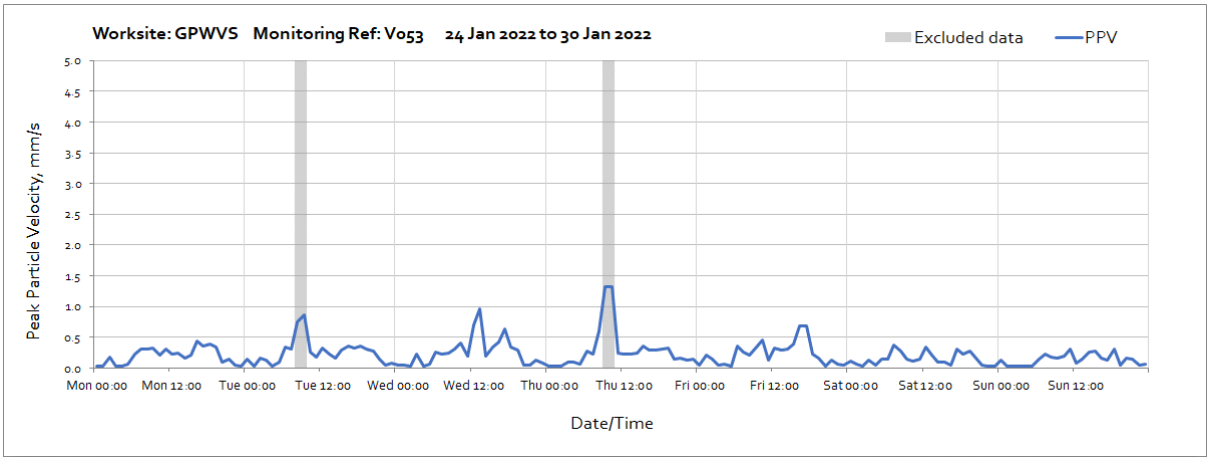




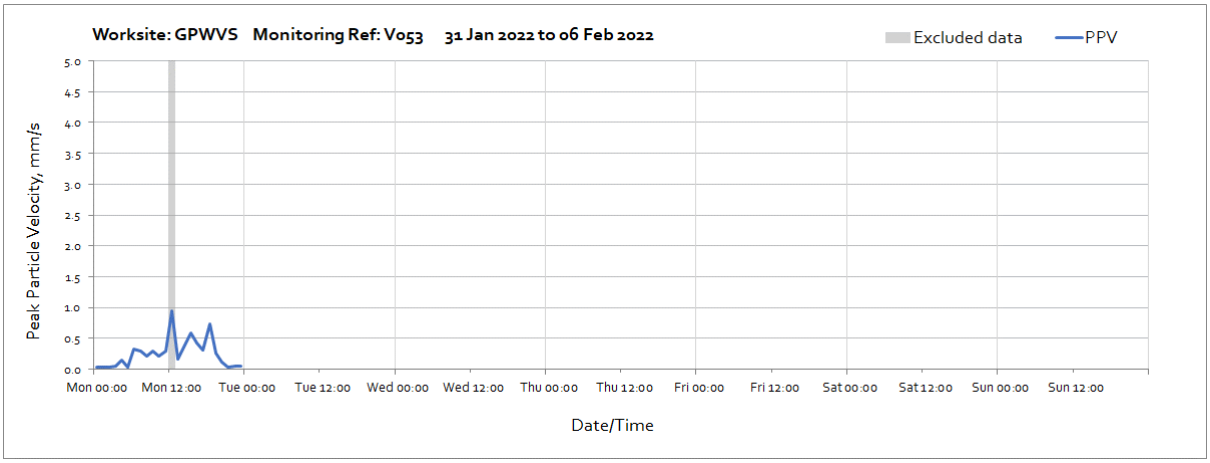


Note: High vibration levels measured at 09:00 on Wednesday 12th January and between 15:00 and 16:00 on Friday 14th January 2022 were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.



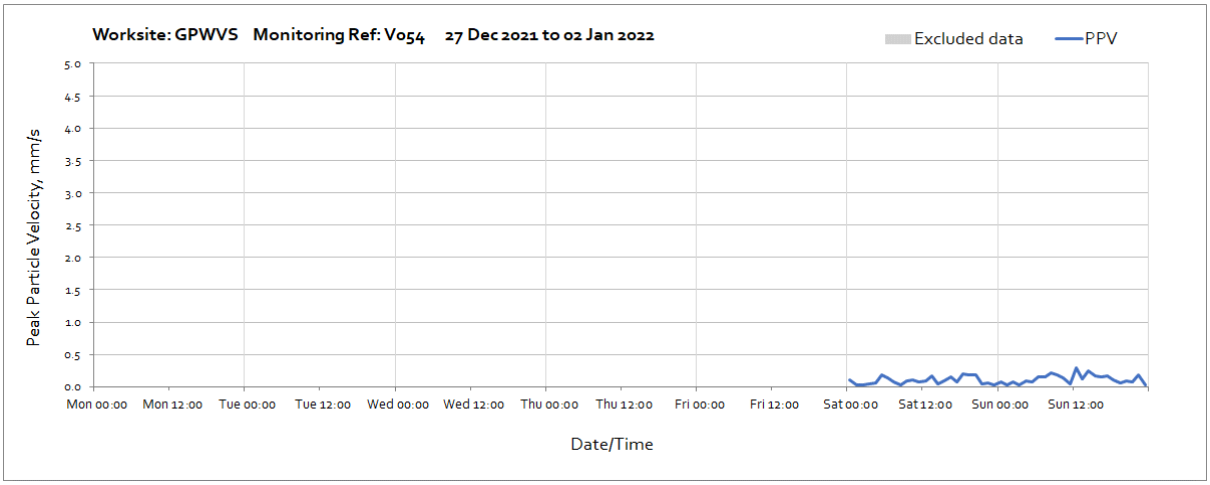


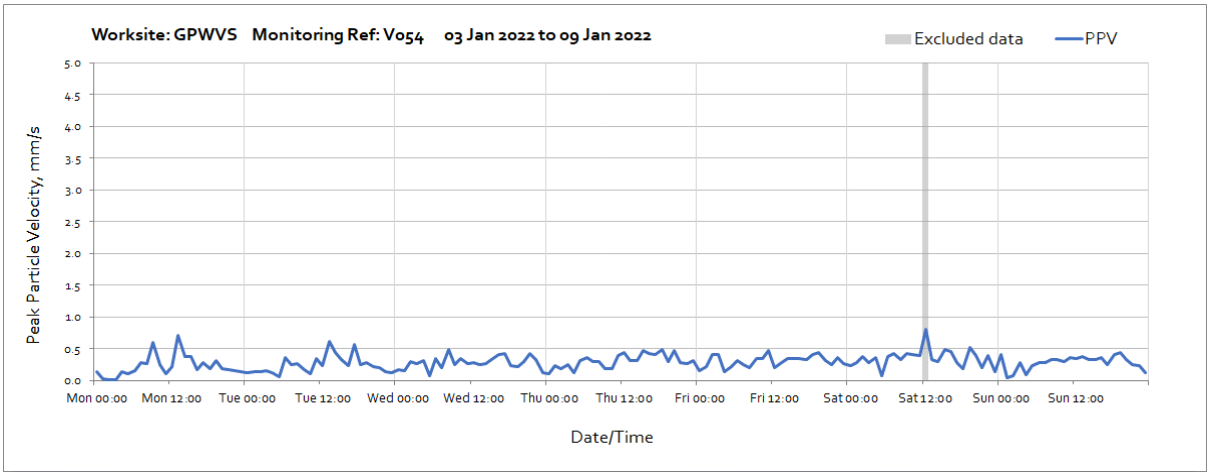
Note: High vibration levels measured between 08:00 and 09:00 on Tuesday 25th January and between 09:00 and 10:00 on Thursday 27th January 2022 were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.



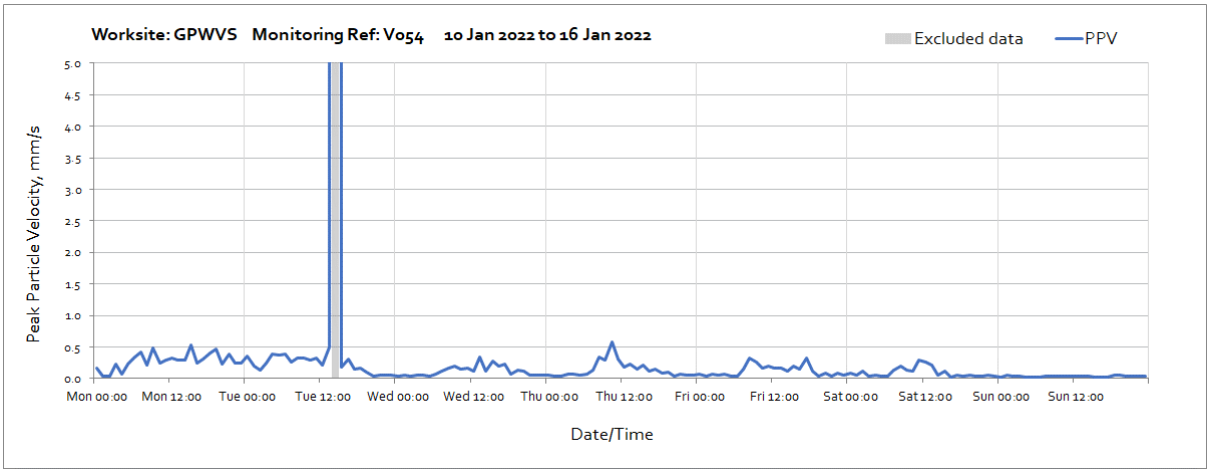
Note: High vibration levels measured at 11:00 on Monday 31st January 2022 were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.

Worksite: Green Park Way Vent Shaft (GPWVS) – Monitoring Ref: V054

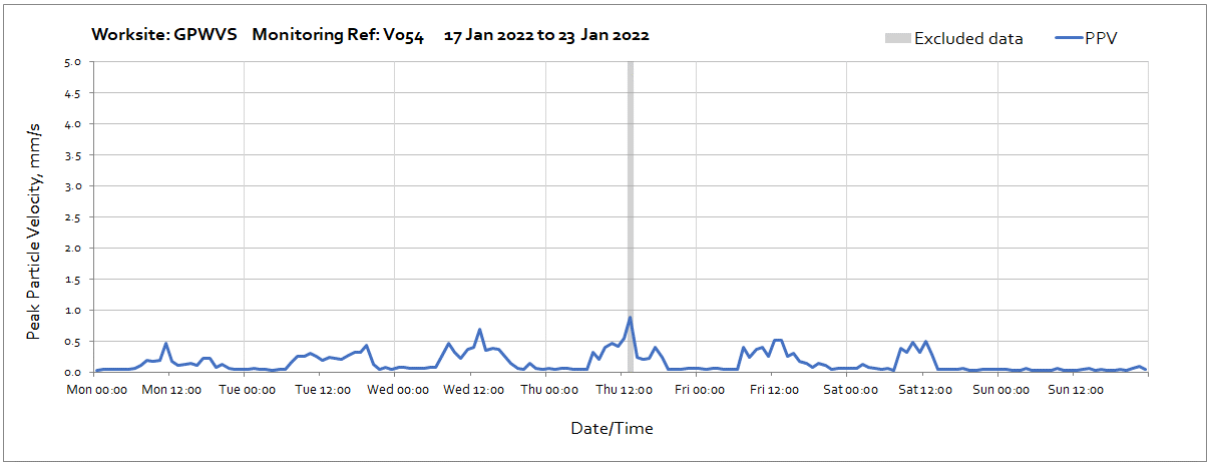




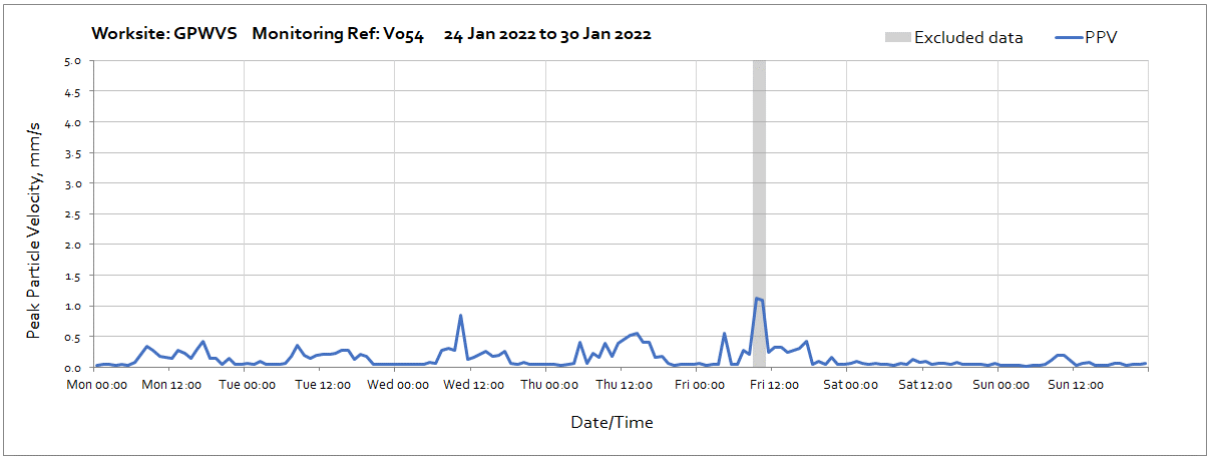
Note: High vibration levels measured at 12:00 on Saturday 8th January 2022 were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.



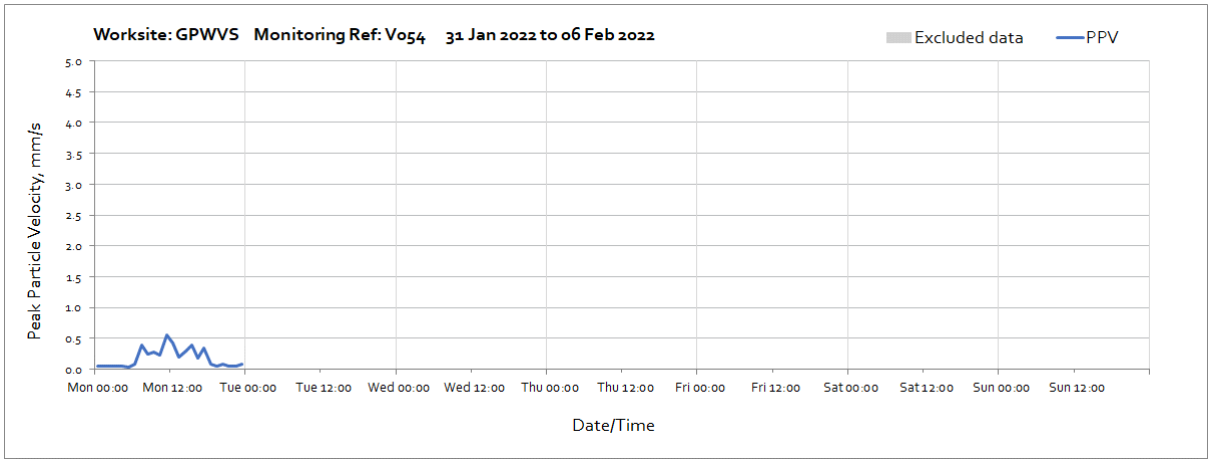
Note: High vibration levels measured at 14:00 on Tuesday 11th January 2022 were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.



Note: High vibration levels measured at 13:00 on Thursday 20th January 2022 were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.



Note: High vibration levels measured between 09:00 and 10:00 on Friday 28th January 2022 were due to local disturbance at the minitoring station and not representaive of HS2 vibration levels at the receptor.


Worksite: GPWVS Monitoring Ref: V054 31 Jan 2022 to 06 Feb 2022
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time