HS2

February 2019

Construction noise and vibration Monthly Report – December 2018

London Borough of Camden

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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 Camden (LBC) during the month of December 2018.

A number of worksites were active during the reporting month in the LBC area. Modifications to track, overhead line equipment and other railway assets, supported by plant and material deliveries and collections to and from site were underway at Network Rail worksites B, C, D and E. Construction of electrical substation was underway at Network Rail worksite F. Drainage works and construction of new building was underway at Network Rail worksite G. Ancillary activities were undertaken at the DB Cargo and former Addison Lee worksite (ref. S001-WS01). Demolition was underway at 132 and 140 Hampstead Road and Petrol Station, worksite (ref. S001-WS02), at the former National Temperance Hospital, 110 Insull Wing worksite (ref. S003-WS02) and at the Ibis Hotel, 3 Cardington Street & 1-3 Cobourg Street worksite (ref. S003-WS05). Archaeological excavations and construction of screening structures were underway at St James's Gardens worksite (ref. S003-WS01). Removal of fixtures and fittings and scaffolding of buildings were carried out at Walkden House, 67-75 & 77-79 Euston Rd worksite (ref. S003-WS03), at the Thistle Hotel worksite (ref. S003-WS04) and at Drummond Street / Euston Street worksites (ref.: S003-WS07). Taxi ranks construction was undertaken at Euston Square Gardens (west) worksite (ref. S003-WS08). Utility disconnections were undertaken at Granby Terrace Bridge. Details of works undertaken at each worksite is presented in the report.

Noise monitoring was undertaken in the vicinity of Network Rail worksites B, C, D, E and F, the DB Cargo worksite (ref.: S001-WS01), 132 and 140 Hampstead Road and Petrol Station worksite (ref.: S001-WS02), St James's Gardens worksite (ref.: S003-WS01), Walkden House, 67-75 & 77-79 Euston Rd worksite (ref.: S003-WS03), the Ibis Hotel, 3 Cardington Street & 1-3 Cobourg Street worksite (ref. S003-WS05), former National Temperance Hospital, 110-122 Hampstead Road worksite (ref. S003-WS06), Drummond Street / Euston Street worksites (ref.: S003-WS07), Ibis Hotel, Euston Square Gardens (west) worksite (ref. S003-WS08) and the Thistle Hotel (ref. S003-WS04). Further noise monitoring was also undertaken at Regents Park Estate, in the vicinity of Regents Park Lorry Holding Area and on Eversholt Street. Vibration monitoring was undertaken in the vicinity of the Walkden House, 67-75 & 77-79 Euston Rd worksite (ref. S003-WS03) and of the Ibis Hotel, Euston Square Gardens (west) worksite (ref. S003-WS08). A new vibration monitor (V09) was installed at Margaret Centre on the 18th of December.

Exceedances of the SOAELs were measured at some monitoring positions surrounding worksites B, C, D, F and G, which were caused by activities at Network Rail HS2 construction sites mainly outside core working hours. No exceedance of S61 trigger levels was measured during the

monitoring period. Four complaints were received during the monitoring period. Description of the complaints, results of investigations and any actions taken are detailed in the report.

Abbreviations and descriptions

The abbreviations, descriptions and project terminology used within this report can be found in the Project Dictionary (HS2-HS2-PM-GDE-000-000002).

Table 1: Table of abbreviations

Acronym	Meaning
$L_{Aeq,T}$	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 +2.5 to +3 dB) sound level than it would be if the reflecting surface was not there.
Free-field	A free-field noise level is the noise level measured at a location where no reflective surfaces, other than the ground, lies within 3.5 metres of the microphone position.
Equivalent continuous sound pressure level, or $L_{pAeq,T}$	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.
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.
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 The nominated undertaker is required to undertake noise (and vibration) monitoring as necessary to comply with the requirements of the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, including specifically Annex 1: Code of Construction Practice, in addition to any monitoring requirements arising from conditions imposed through consents under section 61 of the Control of Pollution Act, 1974 or through Undertakings & Assurances given to third parties. Such monitoring may be undertaken for the following purposes:

- monitoring the impact of construction works;
- to investigate complaints, incidents and exceedance of trigger levels; or
- monitoring the effectiveness of noise and vibration control measures.

Monitoring data and interpretive reports are to be provided to each relevant local authority on a monthly basis and shall include a summary of the construction activities occurring, the data recorded over the monitoring period, any complaints received, any periods in exceedance of agreed trigger levels, the results of any investigations and any actions taken or mitigation measures implemented. This report provides noise data, and interpretation thereof, for monitoring carried out by HS2 within the London Borough of Camden (LBC) for the period 1st to 31st December 2018.

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

- Network Rail on-networks HS2 preparatory works: worksite ref. B (see plan 1 in Appendix A)
  - Works activities include deliveries, movement of materials and waste, construction of walkway and removal of temporary walkway, lighting works, piling of foundations for Overhead Line Equipment (OLE) structures and installation of masts, booms and small part steel (SPS), re-routing of cables, breaking-out of concrete and removal of signals.
- Network Rail on-networks HS2 preparatory works: worksite ref. C, D and E (see plan 2 in Appendix A)
  - Works activities include deliveries, movement of materials and waste, installation of foundations for OLE structures, erecting and removing OLE steelwork, digging of trial holes, breaking-out of underground obstructions, installation of handrails and troughing, running-out of power cables.
- Network Rail on-networks HS2 preparatory works: worksite ref. F (see plan 2 in Appendix A)
  - Works activities include installation of roof membrane system and mansafe system, brickworks, strike scaffolding, painting of internal floors, installation of

Cable Management System (CMS), installation of doors, installation of fence panels using a crane.

- Network Rail on-networks HS2 preparatory works: worksite ref. G (see plan 2 in Appendix A)
  - Works activities include drainage works and construction of new building.
- DB Cargo shed and adjacent land on Granby Terrace, worksite ref. S001-WS01 (see plan 2 in Appendix A)
  - Works activities include ancillary activities at the former Addison Lee site.
- 132 and 140 Hampstead Road and Petrol Station, worksite ref. S001-WS02 (see plan 3 in Appendix A)
  - Works activities include removal of fixtures and fittings and demolition.
- St James's Gardens, worksite ref. S003-WS01 (see plan 3 in Appendix A)
  - Works activities include archaeological excavations and construction of screening structures.
- Former National Temperance Hospital, Insull Wing, worksite ref. S003-WS02 (see 3 in Appendix A)
  - Works activities include demolition.
- Walkden House, 67-75 & 77-79 Euston Rd, worksite ref. S003-WS03 (see plan 3 in Appendix A)
  - Works activities include removal of fixtures and fittings and utilities disconnections.
- Thistle Hotel, Cardington Street, worksite ref. S003-WS04 (see plan 3 in Appendix A)
  - Works activities include removal of fixtures and fittings and asbestos removal.
- Ibis Hotel, 3 Cardington Street & 1-3 Cobourg Street, worksite ref. S003-WS05 (see plan 3 in Appendix A)
  - Works activities include demolition.
- Former National Temperance Hospital, 110-122 Hampstead Road, worksite ref. S003-WS06 (see plan 3 in Appendix A)
  - Site activities include deliveries.
- 93-103 Drummond Street, 11-15 Melton Street, 54-64 Euston Street, 69 Cobourg Street, worksite ref. S003-WS07 (see plan 3 in Appendix A)
  - Works activities include removal of fixtures and fittings, scaffolding and utilities disconnections.

- Euston Square Gardens (west), worksite ref. S003-WS08 (see plan 3 in Appendix A)
  - Works activities include taxi rank construction.
- One Euston Square, 40 Melton Street, Grant Thornton House, 22 Melton Street, worksite ref. S003-WS09 (see plan 3 in Appendix A)
  - Works activities include removal of fixtures and fittings.
- Further works were also undertaken at Granby Terrace Bridge, including utility disconnections.

The applicable standards, guidance, and monitoring methodology is outlined in the construction noise and vibration monitoring methodology report which can be found at the following location https://www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2. Noise and vibration monitoring reports for previous months can also be found at this location. Noise and vibration reports prior to 2018 can be found at the following location www.gov.uk/government/publications/monitoring-noise-and-vibration-on-the-hs2-phase-one-route.

1.2 Measurement locations

1.2.1 The following table summarises the position of noise and vibration monitoring installations within the LBC area in December 2018.

1.2.2 Noise monitor N005 was installed at Granby Terrace on the 23rd of November as a replacement for noise monitor GT. This monitor had lately been affected by noise from a power generator recently installed in close proximity to it, and was no longer representative of noise at local residential properties. N005 is located further away from the generator, at a location more representative of noise at surrounding receptors. After the installation of N005, GT will no longer be included in monitoring reports.

1.2.3 A new vibration monitor (V09) was installed at Margaret Centre on the 18th of December, to assess potential impacts on both the occupants and the building.

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

Table 2: Monitoring locations.

Worksite Reference	Measurement Reference	Address
B	CC	Whittlebury Mews West, Camden Town, London, NW1 8JB
	JC	Juniper Crescent, London, NW1 8HA
C	EC	The Edinboro Castle, 57 Mornington Terrace, London, NW1 7RU
	N022	External to #34 Mornington Terrace
	N024	External to Park Village Studios, Park Village East

Worksite Reference	Measurement Reference	Address
D	MT	13 Mornington Terrace, Kings Cross, London, NW1 7RR
	N004	Mornington Terrace lamppost #7 (junction of Mornington Terrace, Mornington Place and Clarkson Row)
E	N005	5A Granby Terrace, Kings Cross, London, NW1 3SA
F	BS	Roof of Stockbeck House, Barnby Street, Kings Cross, London, NW1 2RS
	N023	Lighting column #21 on Hampstead Road
G	HH	Euston Station Parcel Deck, Barnby Street, Euston, London, NW1 2RS
S001-WS01	N001	Park Village East lamppost #1 (external to Cubitt Court, 100 Park Village East)
	N002	Park Village East lamppost #2 (external to Richmond Court)
	N003	Park Village East lamppost #9 (external to Silsoe House)
	N021	Stanhope Street, Lamppost #2
S001-WS02	N018	Outside replacement housing, Hampstead Road
	N019	Outside Cartmel, Hampstead Road
S003-WS02	N016	Margarete Centre roof
	V09	Margaret Centre
S003-WS03	N006	Royal College of General Practitioners Roof level
	N008	Stephenson's Way lamppost (external to RCGP)
	N010	Wesley Hotel
	N011	Euston Street lamppost #4 (external to 82 Euston Street)
	V01	Royal College of General Practitioners basement boiler room by Stephenson Way
S003-WS05	N014	Starcross Street lamppost (external to Exmouth Arms)
S003-WS06	N015	Maria Fidelis School
	N017	Hampstead Road, Lamppost #48
S003-WS07	N012	Drummond Street lamppost #14 (opposite to 92-94 Drummond Street)
S003-WS08	N007	Royal College of General Practitioners, Melton Street
	V02	Royal College of General Practitioners basement vaults under Melton St
Not near worksite	N020	Mackworth Street lamppost #1
Not near worksite	N025	External to #3 Prince Albert Road
Not near worksite	N026	Thames Water Compound

2 Summary of results

2.1 Exceedances of SOAEL

2.1.1 The significant observed adverse effect levels (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."

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

2.1.3 Table 3 presents a summary of recorded exceedances of the SOAEL due to HS2 related construction noise at each measurement location over the reporting period, including the number of exceedances during each time period.

Table 3: Summary of exceedances of LOAEL and SOAEL.

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL(1)
B	CC	Whittlebury Mews West, Camden Town, London, NW1 8JB	Sunday Night	0700-2200 2200-0700	1 6
	JC (1)	Juniper Crescent	Night	2200-0700	8
C	EC	The Edinboro Castle, 57 Mornington Terrace, London, NW1 7RU	All days	All periods	No exceedance
	N022	External to #34 Mornington Terrace	Night	2200-0700	1
	N024	External to Park Village Studios, Park Village East	All days	All periods	No exceedance
D	MT	Mornington Terrace	All days	All periods	No exceedance
	N004	Mornington Terrace lamppost #7	Sunday Night	0700-2200 2200-0700	1 1
E	N005	Granby Terrace	All days	All periods	No exceedance
F	BS	Barnby Street	Night	2200-0700	1
	N023	Ampthill Estate lighting column #21, Hampstead Road	All days	All periods	No exceedance

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL[(1)]
G	HH	Euston Station Parcel Deck, Barnby Street, Euston, London, NW1 2RS	Weekday	0800-1800	5
S001-WS01	N001	DB Cargo shed and adjacent land on Granby Terrace	All days	All periods	No exceedance
	N002	DB Cargo shed and adjacent land on Granby Terrace	All days	All periods	No exceedance
	N003	DB Cargo shed and adjacent land on Granby Terrace	All days	All periods	No exceedance
	N005	5A Granby Terrace, Kings Cross, London, NW1 3SA	All days	All periods	No exceedance
	N021	Stanhope Street, Lampost #2	All days	All periods	No exceedance
S001-WS02	N018	132 and 140 Hampstead Road and Petrol Station	All days	All periods	No exceedance
	N019	132 and 140 Hampstead Road and Petrol Station	All days	All periods	No exceedance
S003-WS02	N016	Margarete Centre roof	All days	All periods	No exceedance
S003-WS03	N006	Royal College of General Practitioners Roof level	All days	All periods	No exceedance
	N008	Walkden House, 67-75 & 77-79 Euston Rd	All days	All periods	No exceedance
	N010	Wesley Hotel	All days	All periods	No exceedance
	N011	Walkden House, 67-75 & 77-79 Euston Rd	All days	All periods	No exceedance
S003-WS05	N014	Ibis Hotel, 3 Cardington Street & 1-3 Cobourg Street	All days	All periods	No exceedance
S003-WS06	N015	Maria Fidelis School	All days	All periods	No exceedance
	N017	Hampstead Road, Lamppost #48	All days	All periods	No exceedance
S003-WS07	N012	93-103 Drummond Street, 11-15 Melton Street, 54-64 Euston Street, 69 Cobourg Street	All days	All periods	No exceedance
S003-WS08	N007	Euston Square Gardens (west)	All days	All periods	No exceedance
Not near worksite	N020	Mackworth Street lamppost #1	All days	All periods	No exceedance
Not near worksite	N025	External to #3 Prince Albert Road	All days	All periods	No exceedance

Worksite Reference	Measurement Reference	Site Address	Day (Weekday, Saturday, Sunday, Night)	Time period	Number of exceedances of SOAEL[1]
Not near worksite	N026	Thames Water Compound	All days	All periods	No exceedance

[1] This monitor is located within the worksite and the measured noise levels and exceedances of the SOAEL are not representative of noise at the surrounding residential properties. Alternative locations for repositioning of this monitor are being considered in discussion with the Local Council.

2.1.4 Over the reporting period the SOAEL was exceeded at a number of measurement locations in the vicinity of worksites B, C, D, F and G. These were caused by activities at Network Rail HS2 construction sites mainly during night-time periods and during weekend days. Outside of these times any exceedances of the SOAEL were caused by the underlying ambient noise levels or other construction activities not related to HS2, rather than being attributable to HS2 construction noise.

2.1.5 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 4 and may be lower than the total sum of individual exceedances reported in Table 3 for each location.

Table 4: Summary of total exceedances of SOAEL.

Worksite Reference	Measurement Reference	Site Address	Total of SOAEL exceedances in the month
B	CC	Whittlebury Mews West, Camden Town, London, NW1 8JB	5
	JC [1]	Juniper Crescent	8
C	N022	External to #34 Mornington Terrace	1
D	N004	DB Cargo shed and adjacent land on Granby Terrace	2
F	BS	Barnby Street	1
G	HH	Euston Station Parcel Deck, Barnby Street, Euston, London, NW1 2RS	5

[1] This monitor is located within the worksite and the measured noise levels and exceedances of the SOAEL are not representative of noise at the surrounding residential properties. Alternative locations for repositioning of this monitor are being considered in discussion with the Local Council.

2.1.6 Monitoring of vibration peak particle velocity (PPV) was undertaken with the purpose of ensuring that construction generated vibration are not of such a magnitude to damage adjacent buildings, in accordance with Annex 1: Code of Construction Practice of the High Speed Rail (London-West Midlands) Environmental Minimum Requirements. There are no LOAEL and SOAEL criteria based on PPV applicable to HS2 construction vibration.

2.2 Summary of measured noise and vibration levels

2.2.1 Table 5 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.

2.2.2 Noise monitoring in the vicinity of worksites B, C, D, F, G, S001-WS02, S003-WS01, S003-WS02, S003-WS05 and S003-WS08 is considered representative of HS2 Area South works during periods of construction works. Other worksites were not considered to be giving rise to substantial levels of HS2 related construction noise, with the measured noise levels largely dominated by the underlying ambient noise, acknowledging that intermittent HS2 works may on occasion be taking place within the area.

Table 5: Summary of measured dB L_{Aeq} data over the monitoring period.

Worksite Reference	Measurement Reference	Site Address	Free-field or Façade measurement	Weekly 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
B	CC	Whittlebury Mews West, Camden Tow	Free-field	60.0 (64.5)	59.3 (63.1)	60.8 (64.6)	59.6 (63.3)	54.8 (61.5)	61.1 (61.9)	61.5 (64.0)	55.5 (55.8)	61.0 (70.0)	54.5 (62.4)	60.2 (63.1)	55.6 (60.5)
	JC [1]	Juniper Crescent, London, NW1 8HA	Free-field	65.9 (69.1)	66.9 (69.1)	67.2 (69.3)	66.1 (68.9)	62.3 (67.6)	66.6 (66.9)	67.7 (69.4)	66.8 (67.1)	66.4 (69.3)	64.1 (70.9)	65.9 (70.2)	61.8 (67.4)
C	EC	The Edinboro Castle, 57 Mornington Terrace	Free field	64.8 (67.7)	64.6 (68.4)	65.3 (68.8)	64.3 (69.6)	60.7 (67.2)	64.7 (65.4)	65.2 (65.7)	65.2 (66.0)	64.8 (67.5)	58.0 (66.0)	64.3 (67.6)	61.3 (67.4)
	N022	External to #34 Mornington Terrace	Free-field	59.3 (61.4)	60.7 (63.3)	60.4 (62.8)	59.5 (70.1)	55.5 (60.6)	58.4 (59.2)	61.3 (63.0)	60.7 (61.0)	60.2 (61.9)	55.7 (59.5)	59.2 (60.8)	55.4 (59.8)
	N024	External to Park Village Studios, Park Village East	Free-field	58.3 (61.3)	60.9 (67.0)	60.8 (65.5)	59.7 (70.2)	55.4 (62.8)	55.6 (57.2)	59.4 (60.6)	59.9 (60.9)	59.4 (61.1)	55.8 (66.9)	58.7 (61.3)	54.8 (58.6)
D	MT	13 Mornington Terrace, Kings Cross, London, NW1 7RR	Free-field	56.0 (56.8)	58.7 (60.8)	58.5 (60.2)	56.6 (60.2)	52.4 (56.6)	- [2] - [2]	57.2 (57.2)	56.7 (56.7)	56.6 (58.0)	52.8 (54.2)	56.2 (57.9)	52.1 (55.7)
	N004	Mornington Terrace lamppost #7	Free-field	62.3 (64.3)	63.6 (67.4)	63.3 (65.6)	62.4 (67.2)	59.2 (68.4)	62.2 (62.4)	63.5 (64.1)	63.1 (64.1)	62.7 (66.2)	58.7 (64.7)	62.5 (68.4)	58.5 (65.1)
E	N005	5A Granby Terrace, Kings Cross, London, NW1 3SA	Free-field	65.5 (67.0)	66.6 (68.0)	66.5 (68.4)	65.8 (67.9)	64.0 (66.7)	65.4 (66.5)	66.2 (67.2)	65.9 (66.4)	65.9 (67.1)	63.9 (67.5)	65.4 (67.7)	63.7 (66.2)

Worksite Reference	Measurement Reference	Site Address	Free-field or Façade measurement	Weekly 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
F	BS	Roof of Stockbeck House, Barnby Street	Free-field	59.0 (60.8)	63.1 (66.5)	60.0 (62.5)	59.0 (62.1)	56.0 (62.3)	59.4 (60.2)	61.3 (62.9)	60.4 (61.0)	59.4 (61.5)	56.5 (60.5)	58.9 (63.7)	56.0 (61.0)
	N023	Ampthill Estate, Hampstead Road	Free-field	70.3 (73.1)	70.5 (71.9)	70.5 (72.2)	70.2 (72.6)	68.7 (75.7)	69.2 (72.2)	70.0 (71.6)	69.6 (70.9)	70.3 (72.3)	68.7 (71.8)	70.0 (72.2)	68.1 (72.2)
G	HH	Euston Station Parcel Deck, Barnby Street	Free-field	65.5 (71.7)	68.7 (75.0)	64.6 (69.2)	64.8 (73.3)	58.7 (70.9)	65.8 (69.5)	65.8 (67.3)	63.2 (64.7)	64.8 (72.1)	62.5 (67.4)	64.5 (72.6)	61.8 (69.0)
S001-WS01	N001	External to Cubitt Court, 100 Park Village East	Façade	57.4 (61.0)	61.8 (69.7)	59.4 (61.0)	58.9 (71.3)	54.2 (59.2)	57.8 (64.4)	59.5 (60.4)	59.2 (61.0)	58.9 (60.6)	54.2 (58.3)	58.4 (67.9)	53.5 (57.4)
	N002	Richmond Court, Park Village East	Free-field	59.0 (62.8)	61.8 (63.7)	61.8 (63.6)	60.4 (69.5)	55.9 (61.5)	56.3 (58.6)	61.4 (62.2)	61.1 (62.4)	61.2 (63.3)	56.0 (60.0)	60.0 (63.6)	54.6 (58.9)
	N003	Silsoe House, Park Village East	Free-field	59.1 (62.1)	61.8 (63.9)	61.9 (64.3)	60.9 (76.5)	56.0 (60.5)	56.0 (58.2)	61.2 (62.6)	61.3 (62.4)	61.5 (63.7)	56.4 (63.0)	60.3 (63.5)	54.9 (58.7)
	N021	Stanhope Street, Lampost #2	Free-field	55.5 (59.3)	60.7 (70.6)	57.9 (59.4)	57.2 (70.3)	53.1 (59.7)	52.9 (58.7)	59.3 (61.9)	58.3 (60.5)	57.8 (60.6)	53.4 (57.3)	56.7 (60.1)	52.0 (55.6)
S001-WS02	N018	Outside replacement housing, Hampstead Road	Free-field	72.1 (75.7)	73.9 (75.1)	74.0 (76.3)	73.5 (76.3)	72.2 (80.3)	71.6 (74.8)	72.8 (74.0)	72.6 (73.8)	74.0 (78.5)	72.2 (75.4)	73.0 (77.2)	71.5 (75.9)
	N019	Outside Cartmel, Hampstead Road	Free-field	70.4 (73.8)	72.3 (74.3)	72.0 (74.5)	71.8 (74.6)	71.0 (78.0)	69.9 (71.5)	71.3 (72.7)	70.9 (72.0)	72.0 (74.2)	70.8 (73.7)	71.5 (76.2)	70.1 (74.5)

Worksite Reference	Measurement Reference	Site Address	Free-field or Façade measurement	Weekly 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
S003-WS03	N006	RCGP Roof level	Free-field	51.6 (53.5)	58.1 (66.9)	51.1 (53.5)	50.9 (54.4)	49.8 (53.4)	51.1 (51.6)	54.1 (58.9)	51.9 (52.5)	51.5 (53.0)	50.2 (54.6)	51.1 (53.5)	49.9 (52.9)
	N008	RCGP Stephenson Way	Façade	60.8 (65.3)	63.5 (67.9)	57.0 (69.2)	56.1 (68.6)	58.3 (72.9)	56.1 (59.7)	59.1 (66.4)	55.9 (57.3)	56.8 (68.3)	54.1 (58.6)	57.3 (73.6)	60.1 (70.7)
	N010	Wesley Hotel	Façade	64.7 (67.2)	66.3 (72.9)	63.9 (66.0)	64.0 (71.2)	61.1 (67.2)	63.8 (65.9)	67.0 (71.4)	64.3 (64.8)	63.2 (65.3)	61.5 (67.7)	63.5 (66.2)	59.9 (65.7)
	N011	Outside #82 Euston Street	Free-field	58.4 (82.3)	60.7 (65.5)	58.3 (63.7)	56.7 (61.6)	54.8 (66.6)	55.3 (57.1)	59.0 (63.0)	59.0 (62.2)	58.1 (64.3)	53.2 (60.1)	56.8 (61.5)	54.6 (62.4)
S003-WS05	N014	Starcross Street	Free-field	56.6 (60.8)	59.6 (65.1)	56.8 (62.9)	56.3 (63.1)	52.5 (60.8)	57.8 (62.1)	58.9 (63.0)	59.8 (66.3)	55.0 (63.5)	51.1 (57.2)	53.9 (58.4)	51.2 (57.8)
S003-WS06	N015	Maria Fidelis School	Free-field	57.0 (59.9)	65.4 (70.7)	56.7 (58.9)	56.6 (59.1)	55.3 (58.9)	55.9 (58.0)	62.5 (69.4)	56.0 (56.4)	56.9 (59.5)	55.3 (58.2)	57.5 (65.6)	54.9 (58.2)
	N016	Margarete Centre roof	Free-field	55.9 (58.0)	63.4 (71.0)	55.8 (58.2)	55.6 (58.0)	54.6 (58.8)	55.3 (56.2)	61.9 (70.1)	56.8 (62.3)	56.5 (62.4)	54.5 (57.3)	56.3 (61.9)	55.3 (65.2)
	N017	Hampstead Road, Lampost #48	Free-field	70.9 (75.4)	73.0 (75.7)	71.7 (75.0)	71.9 (76.8)	70.2 (76.2)	69.9 (71.8)	73.0 (75.6)	70.8 (72.3)	72.1 (74.8)	69.9 (73.2)	71.4 (77.7)	69.7 (73.7)
S003-WS07	N012	Opposite #92-94 Drummond Street	Free-field	57.0 (60.3)	61.7 (66.9)	58.3 (62.2)	58.5 (61.5)	55.5 (68.9)	57.4 (61.4)	60.4 (66.7)	61.3 (69.7)	59.3 (68.0)	53.7 (59.0)	58.1 (68.9)	54.7 (58.6)
S003-WS08	N007	RCGP, Melton Street	Free-field	66.3 (68.6)	69.2 (71.7)	66.7 (68.6)	66.9 (70.4)	64.9 (71.3)	66.6 (70.0)	68.7 (69.8)	68.2 (68.8)	67.1 (70.3)	64.2 (68.1)	67.4 (70.4)	64.4 (70.6)
	N020	Mackworth Street	Free-field	53.4	59.8	53.3	52.0	51.3	50.7	55.1	54.0	53.2	52.4	52.2	51.1

Worksite Reference	Measurement Reference	Site Address	Free-field or Façade measurement	Weekly 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
Not near worksite				(56.8)	(72.1)	(56.6)	(56.2)	(55.3)	(51.4)	(59.6)	(56.5)	(59.3)	(60.0)	(56.4)	(55.5)
Not near worksite	N025	External to #3 Prince Albert Road	Free-field	68.0 (71.5)	68.9 (70.8)	68.3 (70.5)	68.0 (72.2)	66.4 (71.5)	66.5 (67.2)	67.8 (69.1)	67.9 (69.1)	68.8 (73.4)	67.2 (73.2)	67.7 (72.8)	65.7 (69.7)
Not near worksite	N026	Thames Water Compound	Free-field	58.2 (60.3)	58.8 (60.3)	57.9 (59.4)	57.7 (61.2)	54.4 (60.0)	56.1 (56.7)	57.5 (59.0)	58.1 (59.2)	58.4 (61.2)	55.1 (59.6)	57.7 (61.3)	53.8 (57.1)

(1) This monitor is located within the worksite and the measured noise levels and exceedances of the SOAEL are not representative of noise at the surrounding residential properties. Alternative locations for repositioning of this monitor are being considered in discussion with the Local Council.

(2) Due to loss of power at the monitoring station and to adverse weather, insufficient data were recorded at this monitor during this time period.

2.2.3 Table 6 presents a summary of the measured vibration levels at monitoring locations V01, V02 and V09 over the reporting period. The highest PPV measured during the monitoring along any axis is presented in the table.

Table 6: Summary of measured PPV data over the monitoring period.

Worksite Reference	Measurement Reference	Site Address	Highest PPV measured in any axis, mm/s
S003-WS03	V01	Royal College of General Practitioners basement boiler room by Stephenson Way	1.28 (Z axis)
S003-WS08	V02	Royal College of General Practitioners basement vaults under Melton St	0.33 (Z axis)
S003-WS06	V09	Margarete Centre	1.44 (Y axis)

2.2.4 Appendix C presents graphs of noise and vibration monitoring data over the month for each of the measurement locations. Noise data presented consist 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.

2.3 Exceedances of trigger level

2.3.1 Table 7 provides a summary of exceedances of the S61 trigger noise levels determined to be due to HS2 related construction measured during the reporting period, along with the findings of any investigation.

Table 7: Summary of exceedances of trigger levels.

Complaint reference number (if applicable)	Worksite reference	Date and time period	Identified Source	Results of investigation (including noise monitoring results)	Actions taken
-	-	-	-	-	-

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

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.

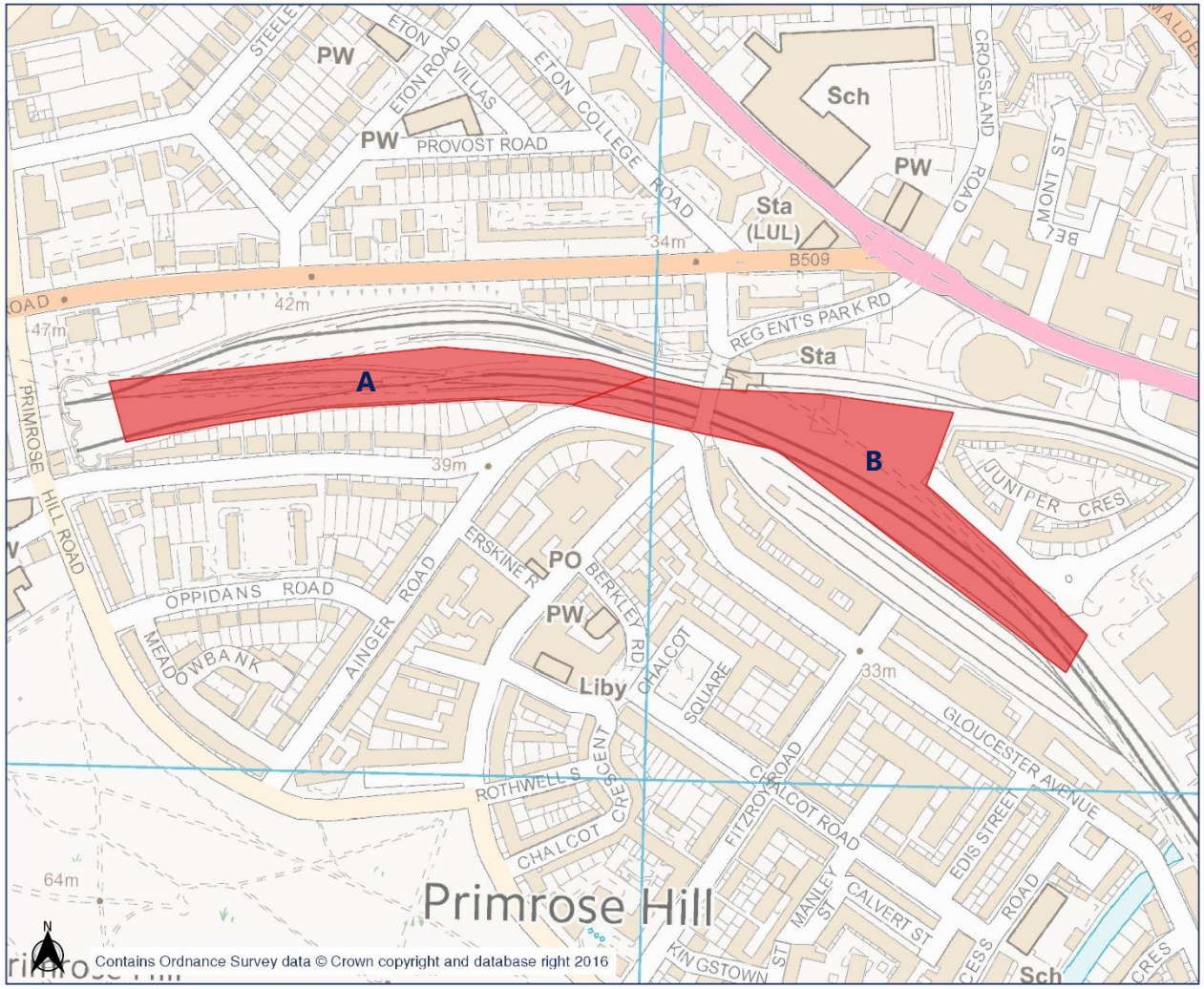
Table 8: Summary of complaints.

Complaint reference number	Worksite reference	Description of complaint	Results of investigation	Actions taken
CPA-000615	S001-WS02	Complaint from a resident on Harrington Street about construction noise and rehousing.	The complaint is under investigation.	-
CPA-000620	S001-WS01/D	Complaint from a resident of Silsoe House about provision of noise insulation and monitoring of noise during night-time works.	The complaint is under investigation.	-
CPA-000631	B	Complaint from a resident on Gloucester Avenue about construction noise and workers talking loudly during night time period.	Investigation showed that no HS2 construction activities were being undertaken at the time when the noise disturbance was reported.	No action taken
CPA-000632	S001-WS02	Complaint regarding perceptible vibration within residential premise of Cartmel, Regent's Park Estate.	Attended vibration monitoring was carried out concurrent with specific demolition activities (percussive breaking, tracking of plant) at the worksite. No significant levels of vibration were either perceived or measured at ground or top floor levels.	Investigation is ongoing.

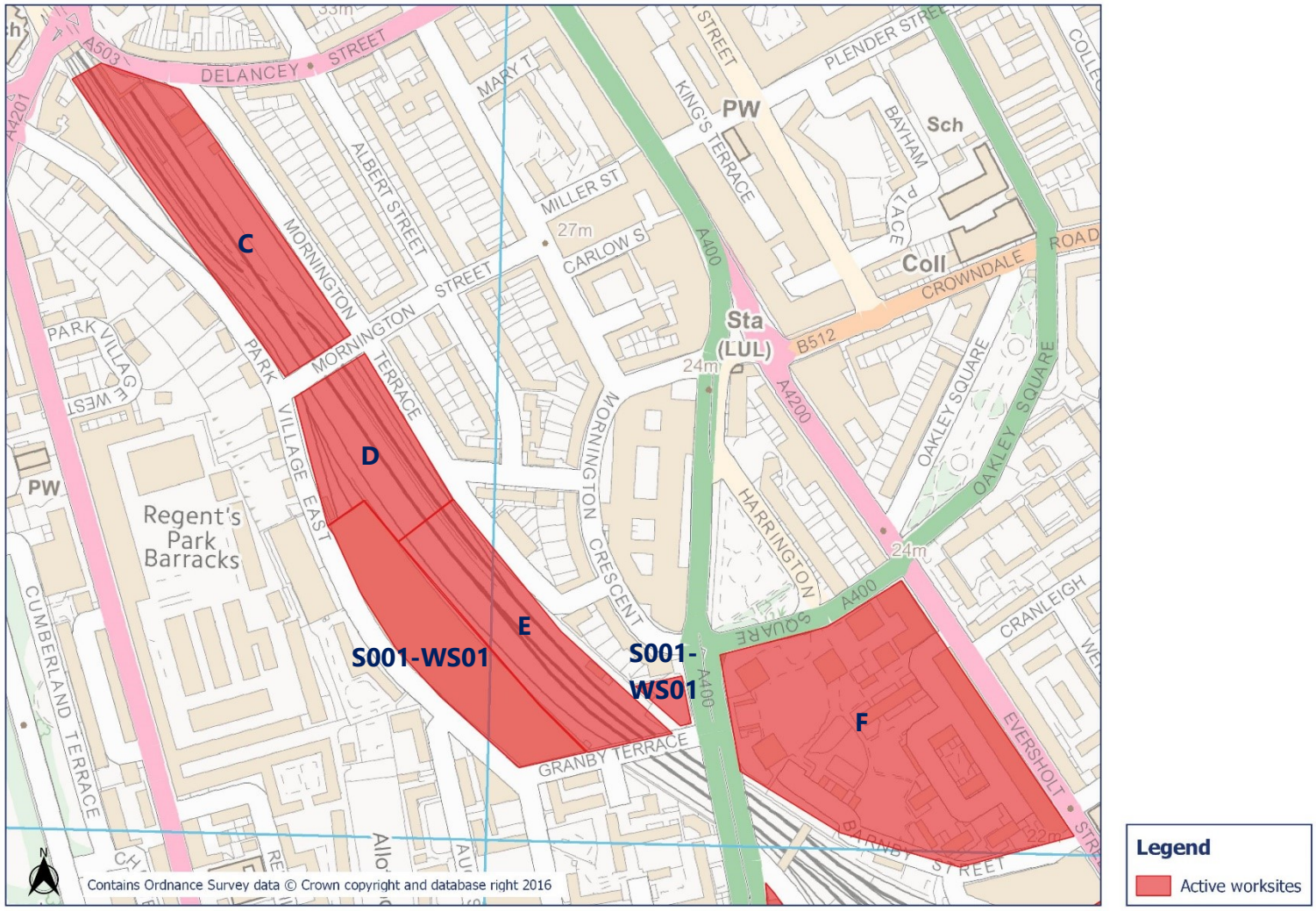
Appendix A Site Locations

HS2

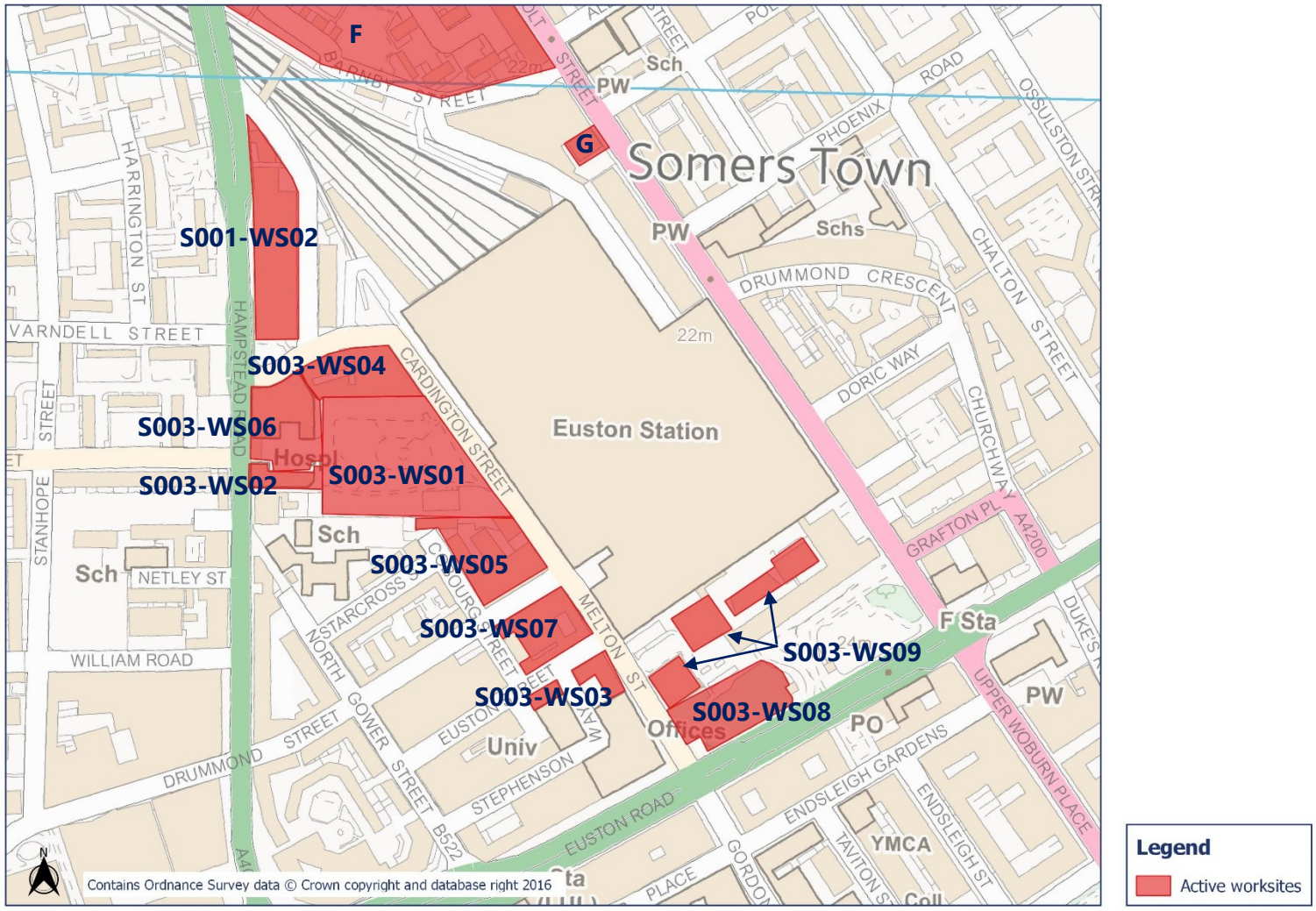
Worksite identification plan - 1



Worksite identification plan - 2

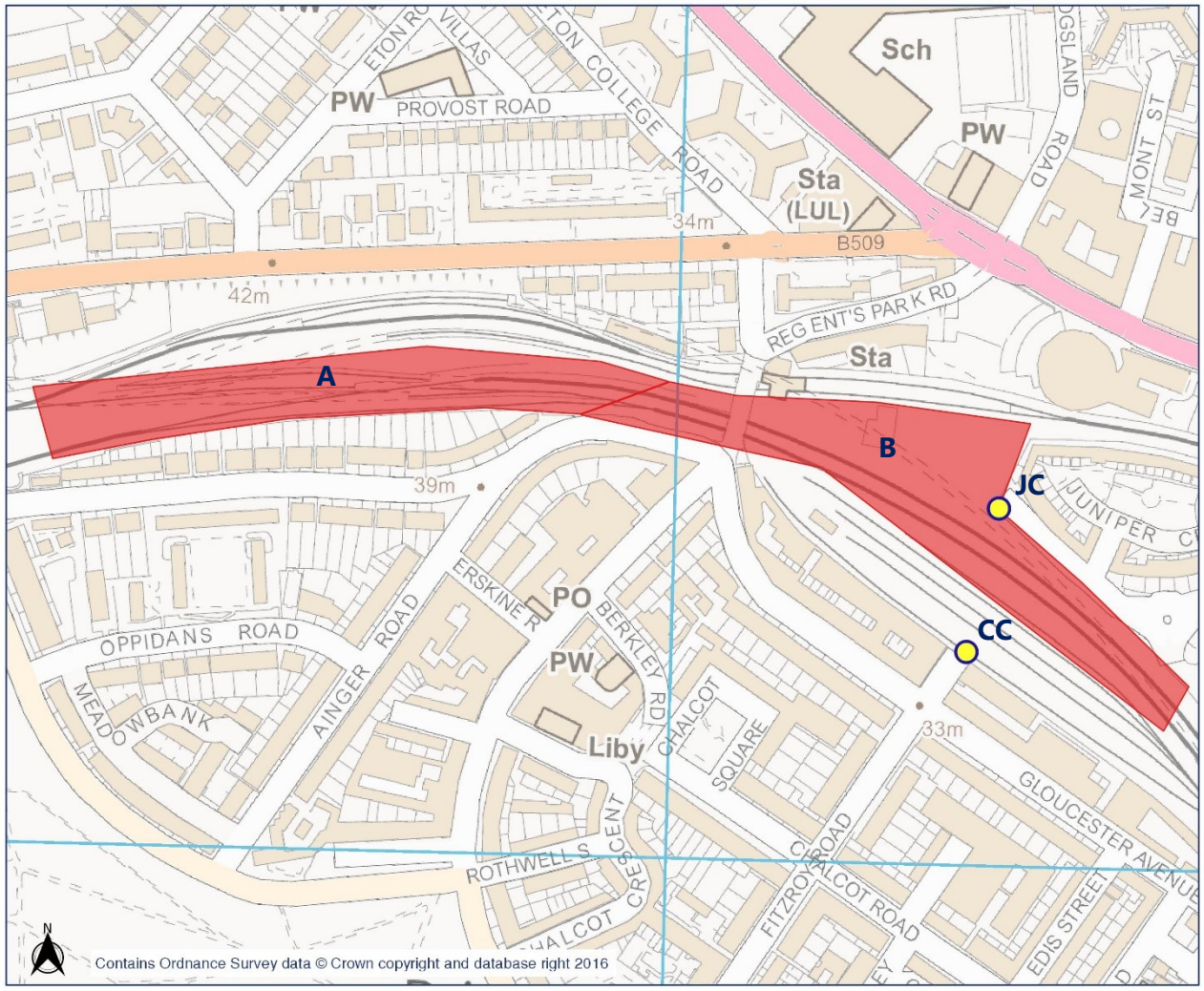


Worksite identification plan - 3

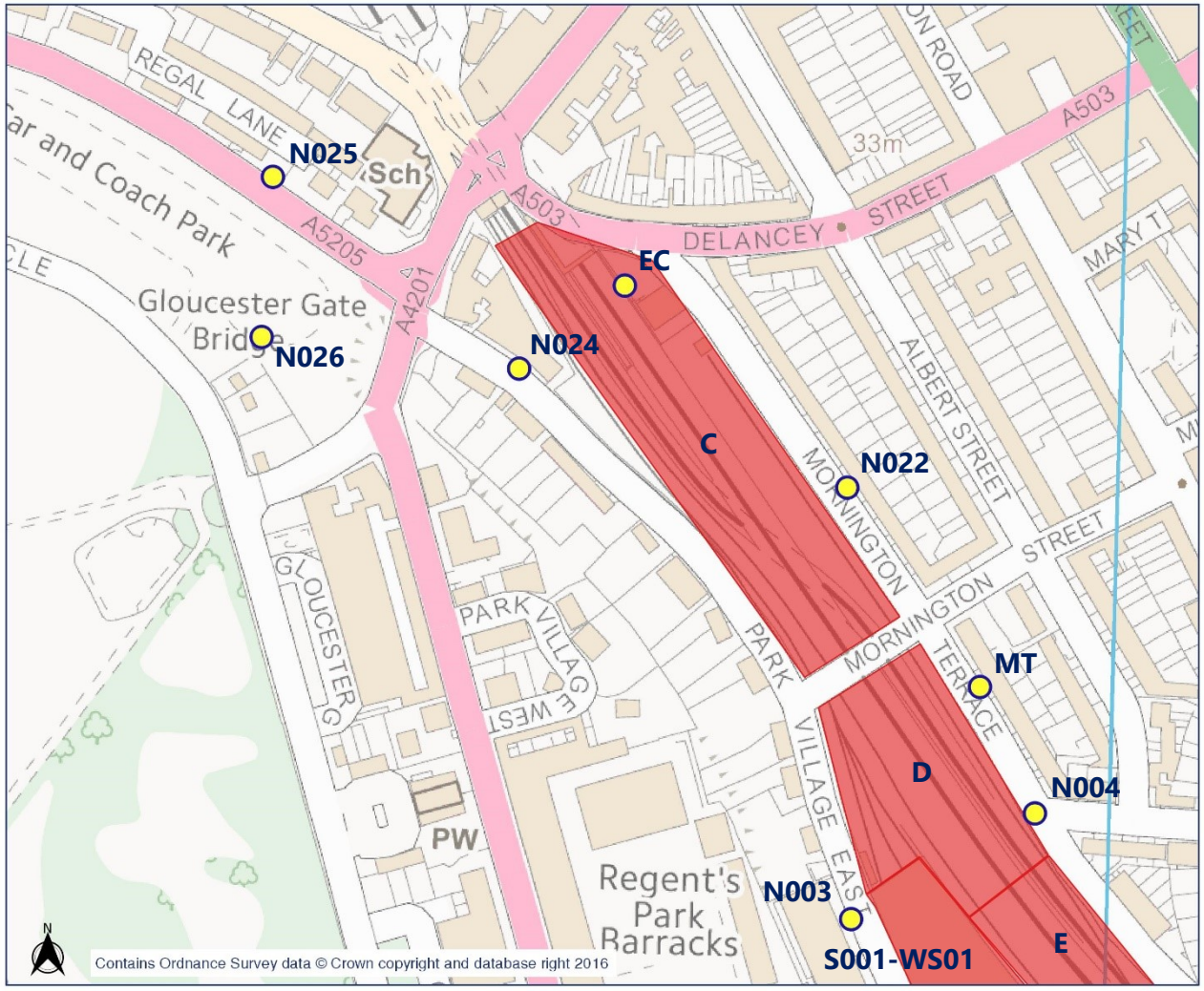


Appendix B Monitoring Locations

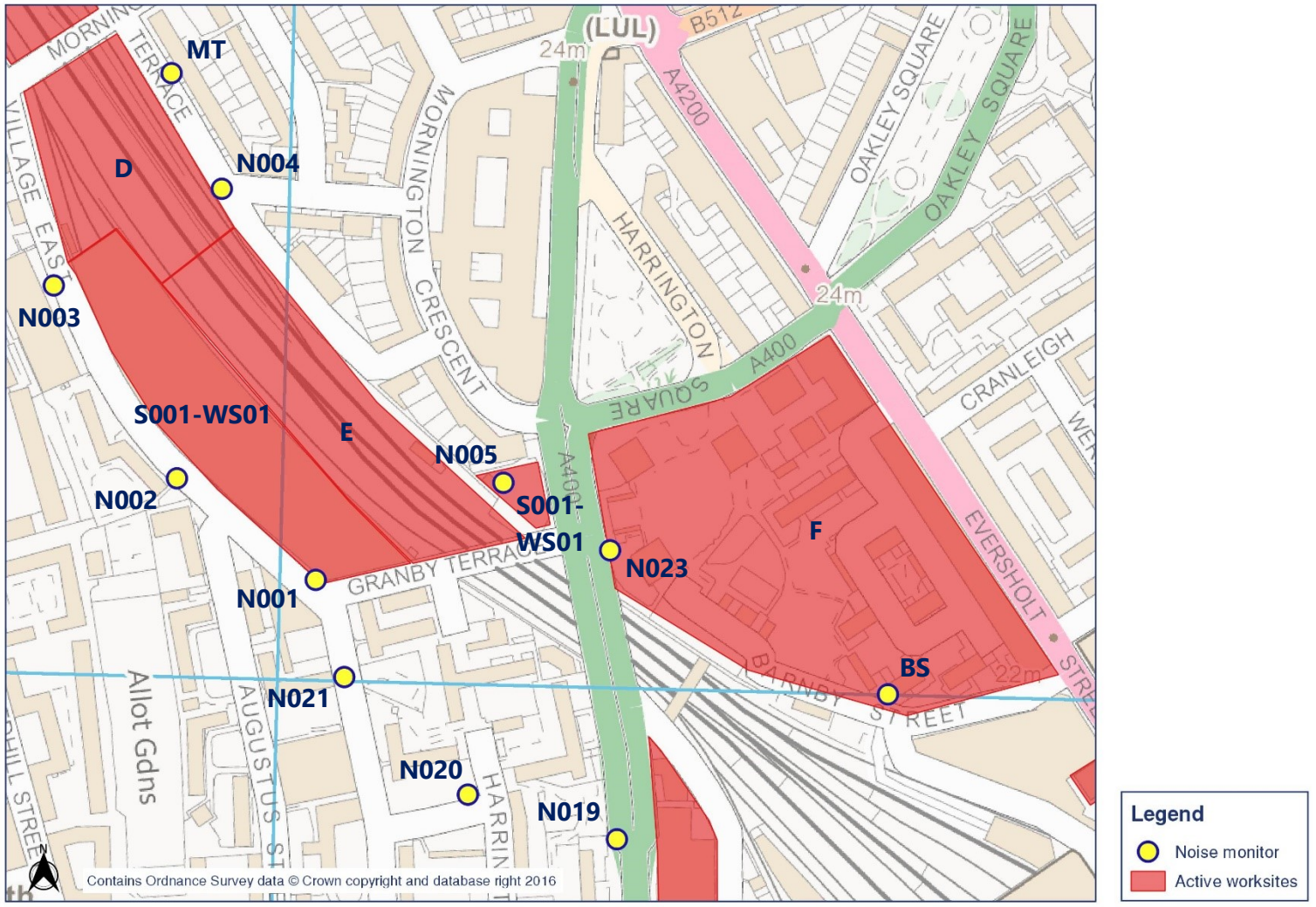
Noise monitoring plan - 1



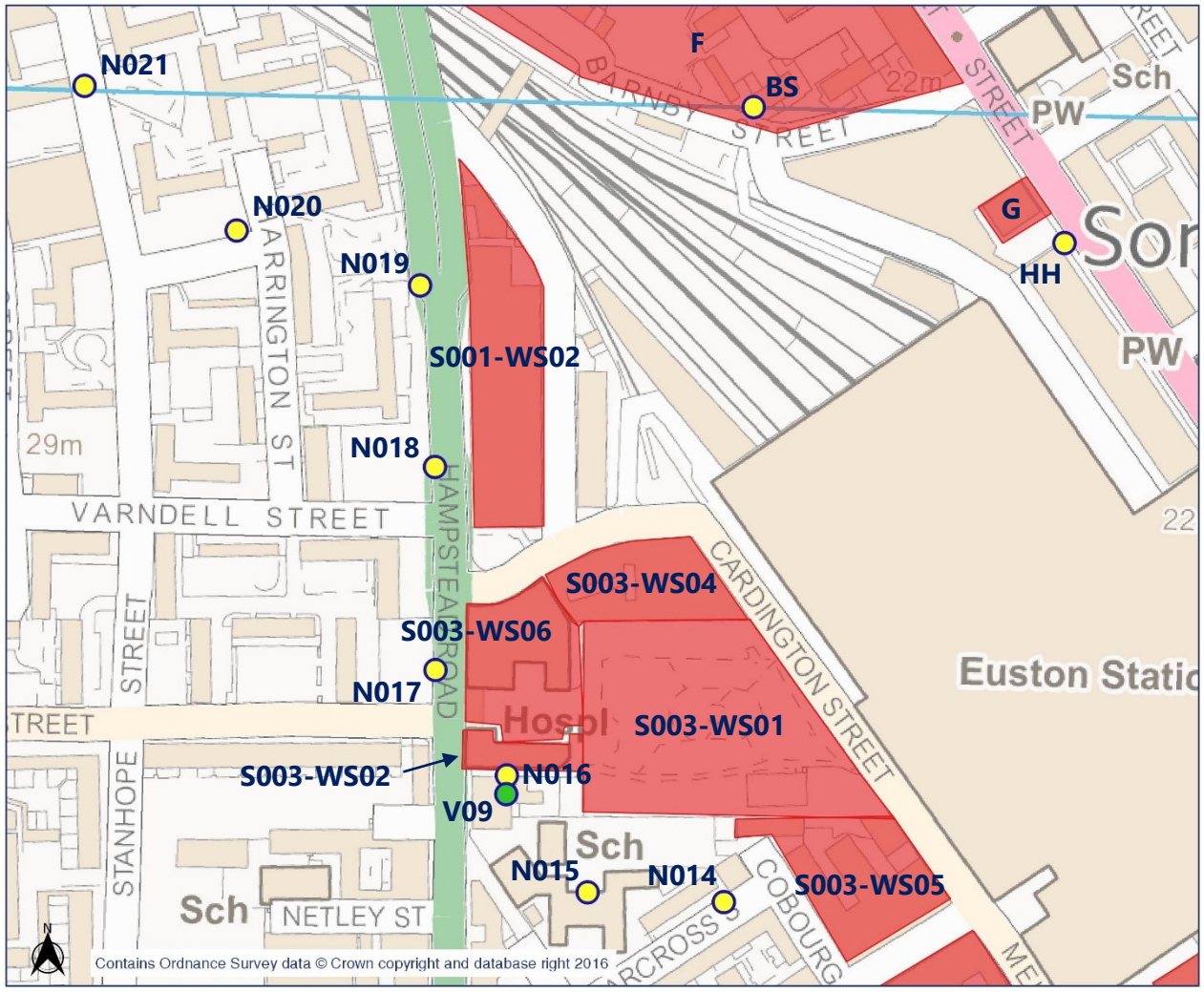
Noise monitoring plan - 2



Noise monitoring plan - 3

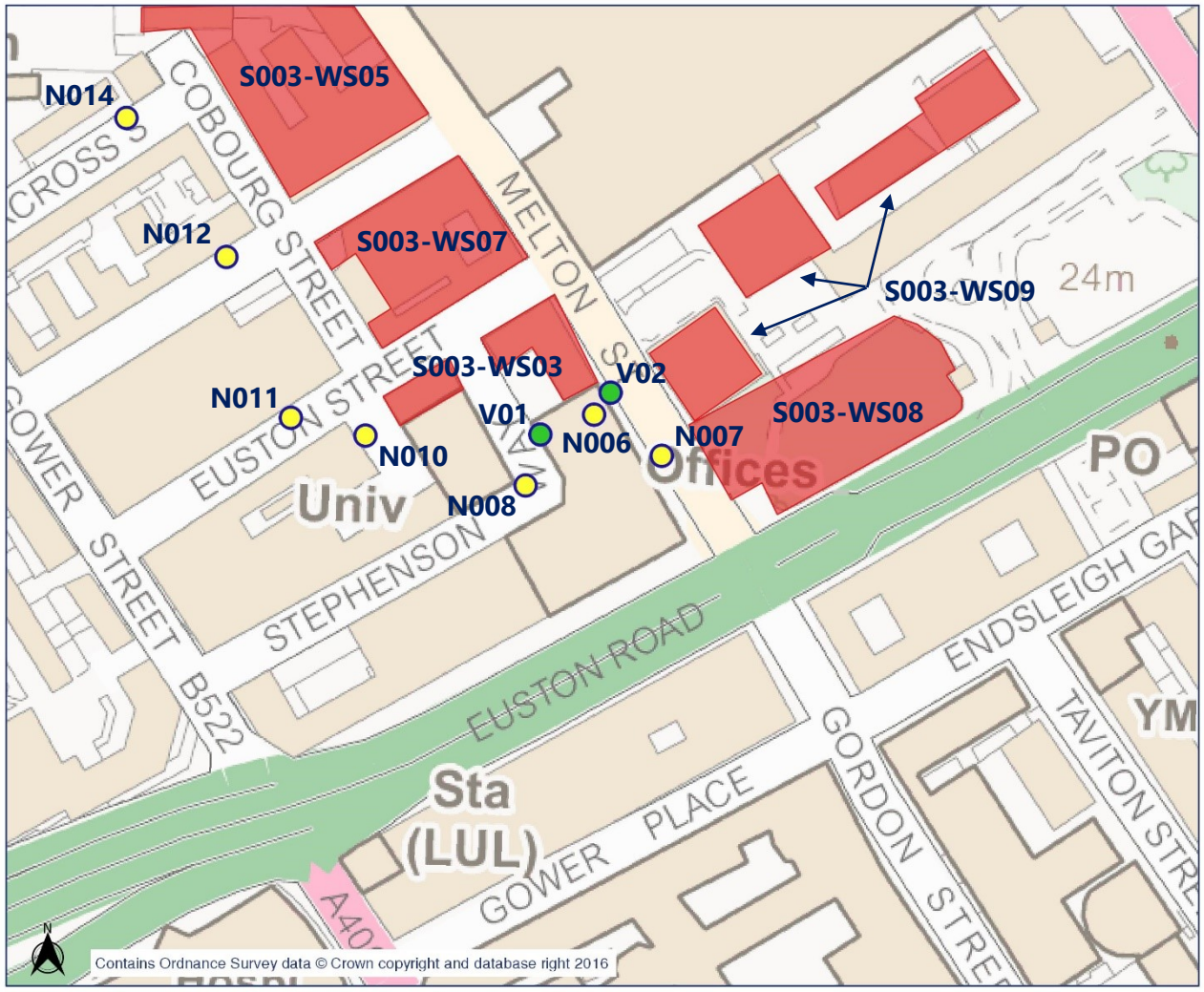


Noise monitoring plan - 4



HS2

Noise monitoring plan - 5

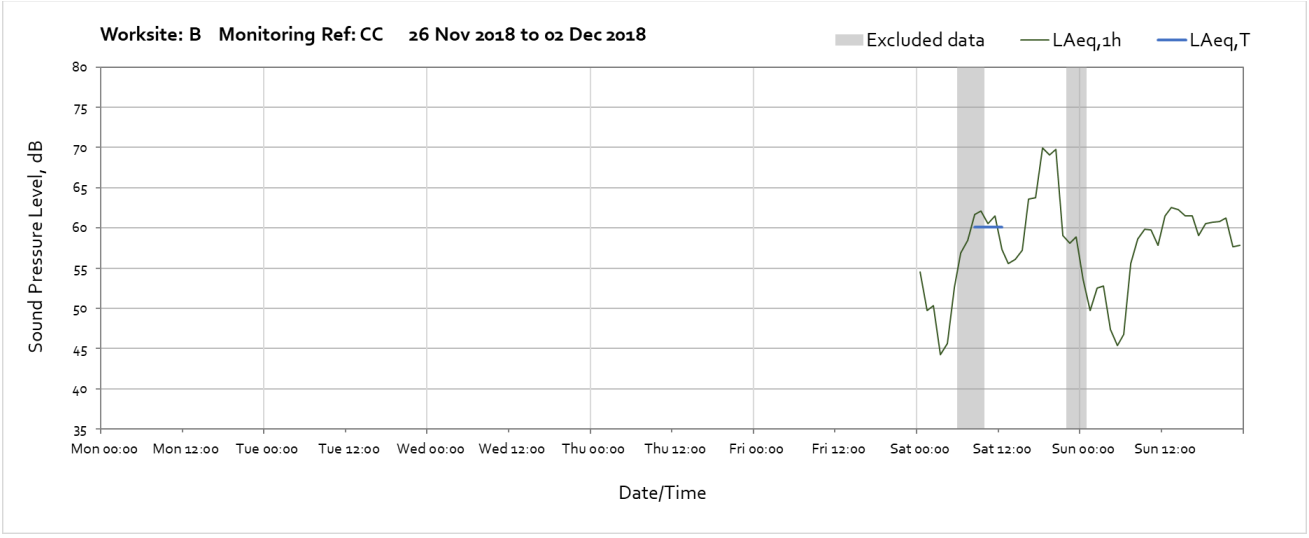


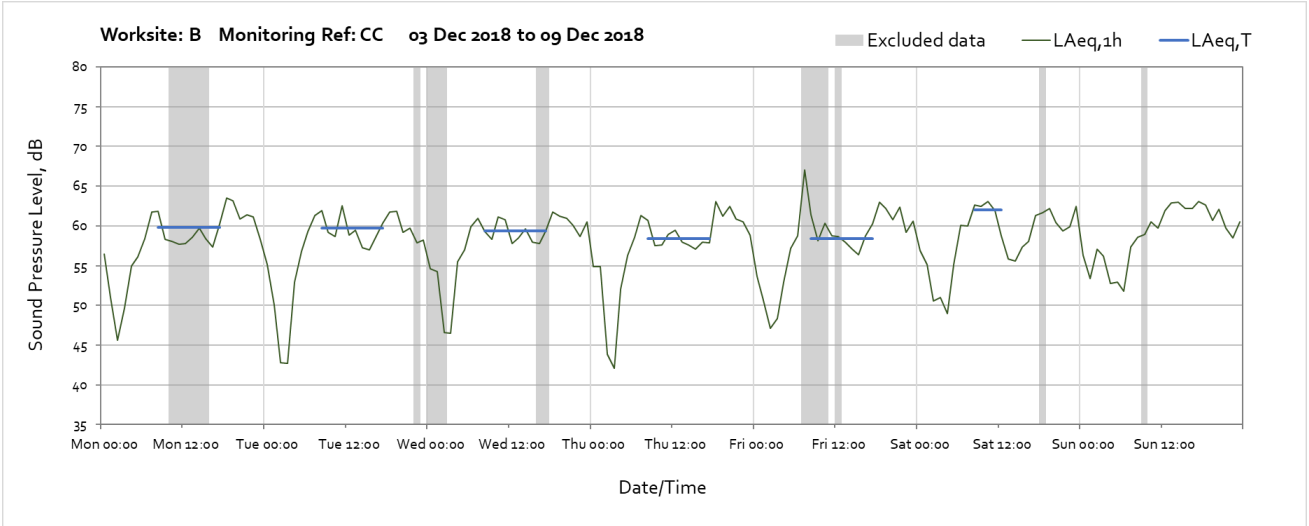
Appendix C Data

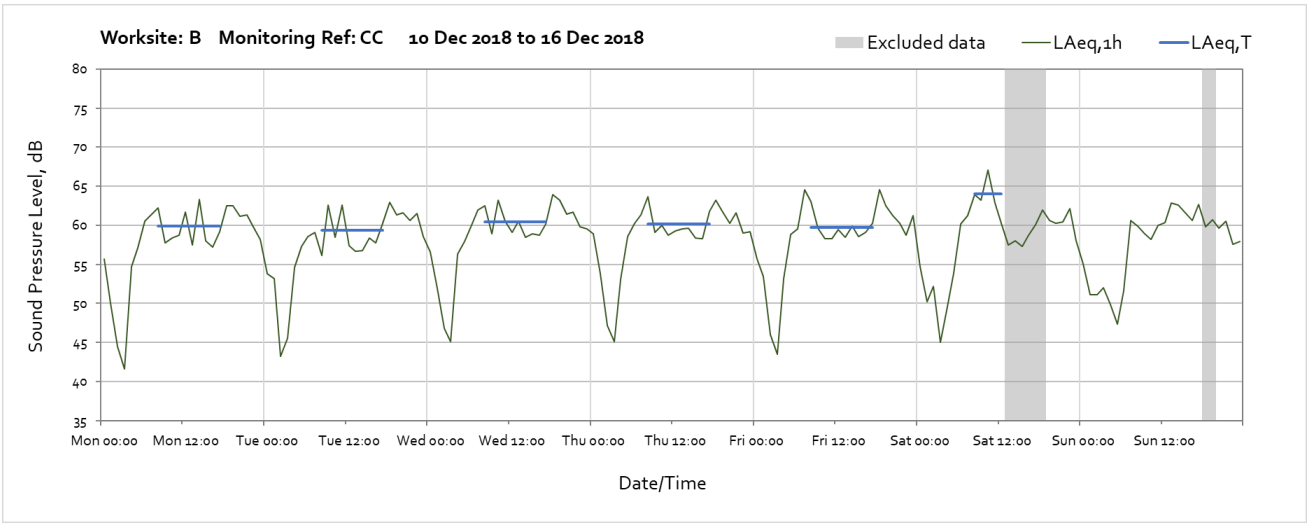
Noise

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. High noise levels measured at some locations on the night of December 31st were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: B – Monitoring Ref: CC



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Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
80
75
70
65
60
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45
40
35
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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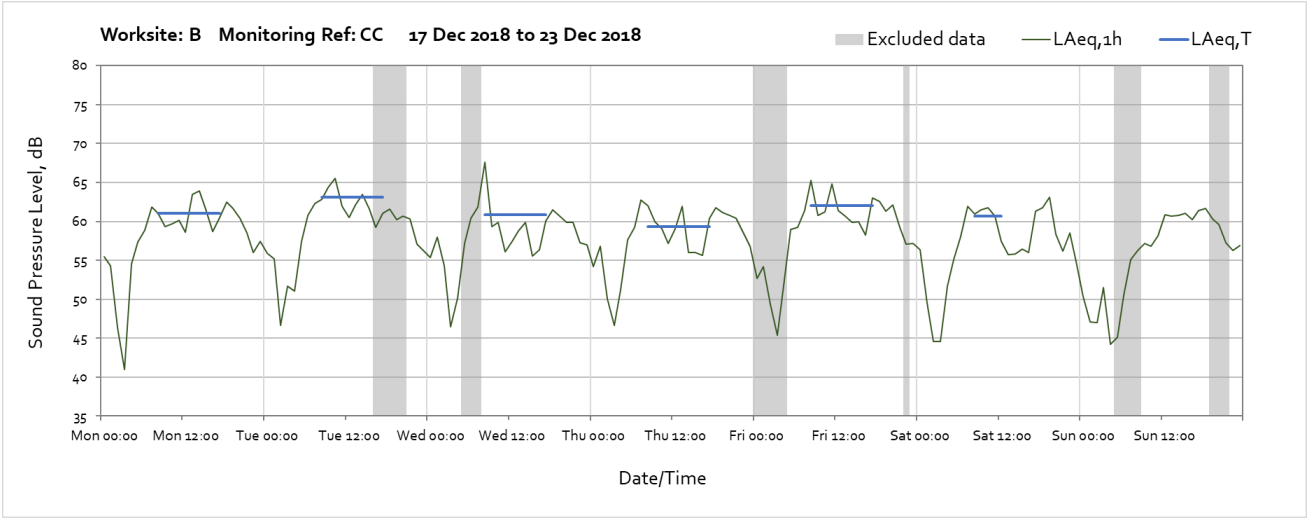
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time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Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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75
70
65
60
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Mon 12:00
Tue 00:00
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Wed 00:00
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Sat 12:00
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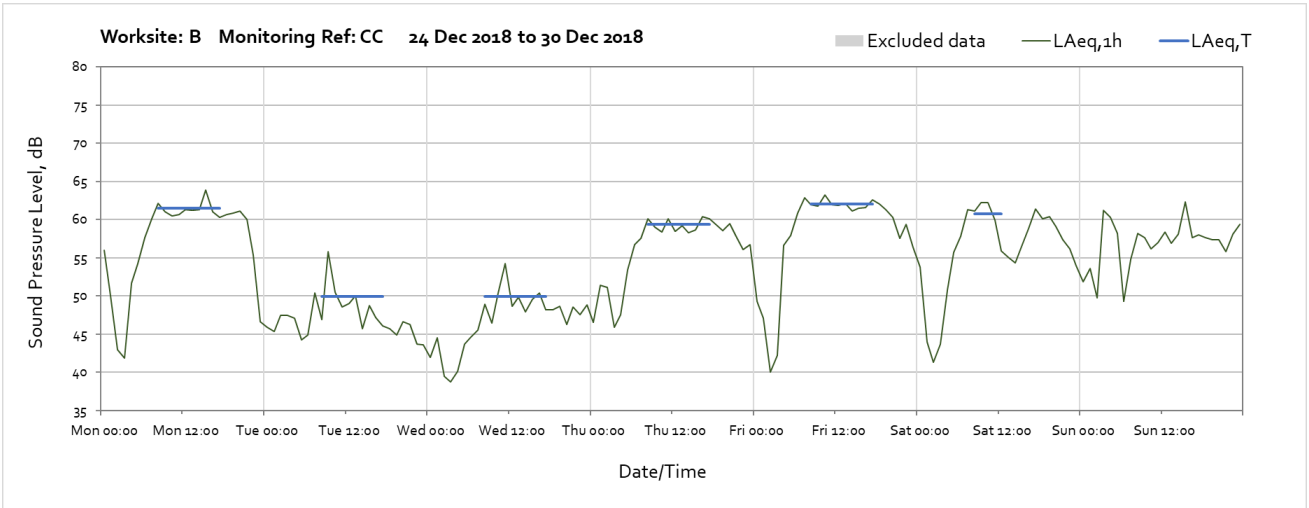
Sun 12:00
Date/Time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Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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75
70
65
60
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Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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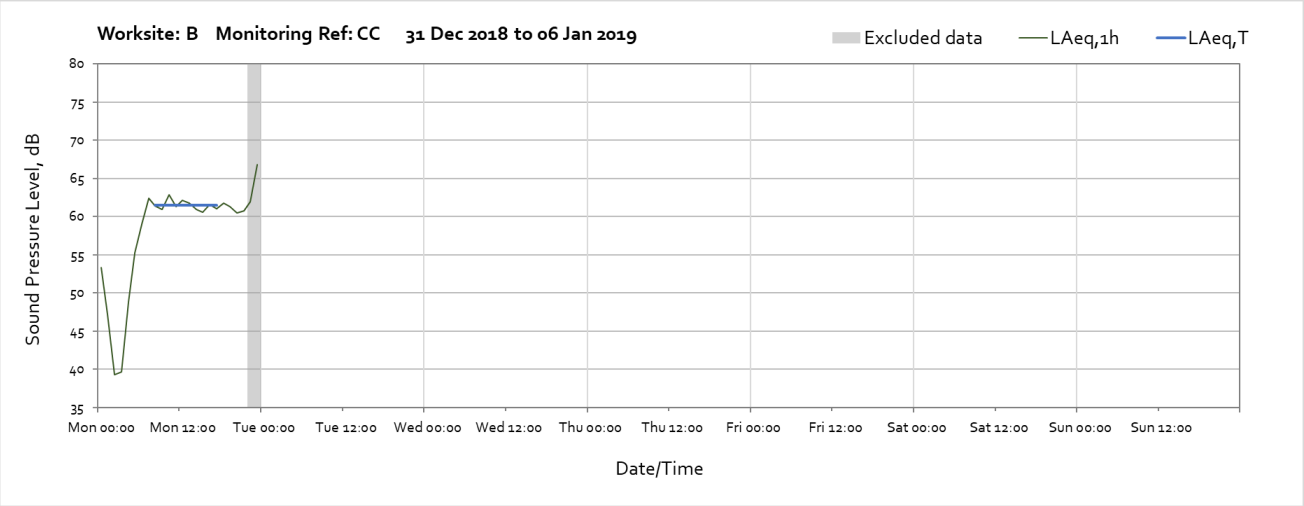
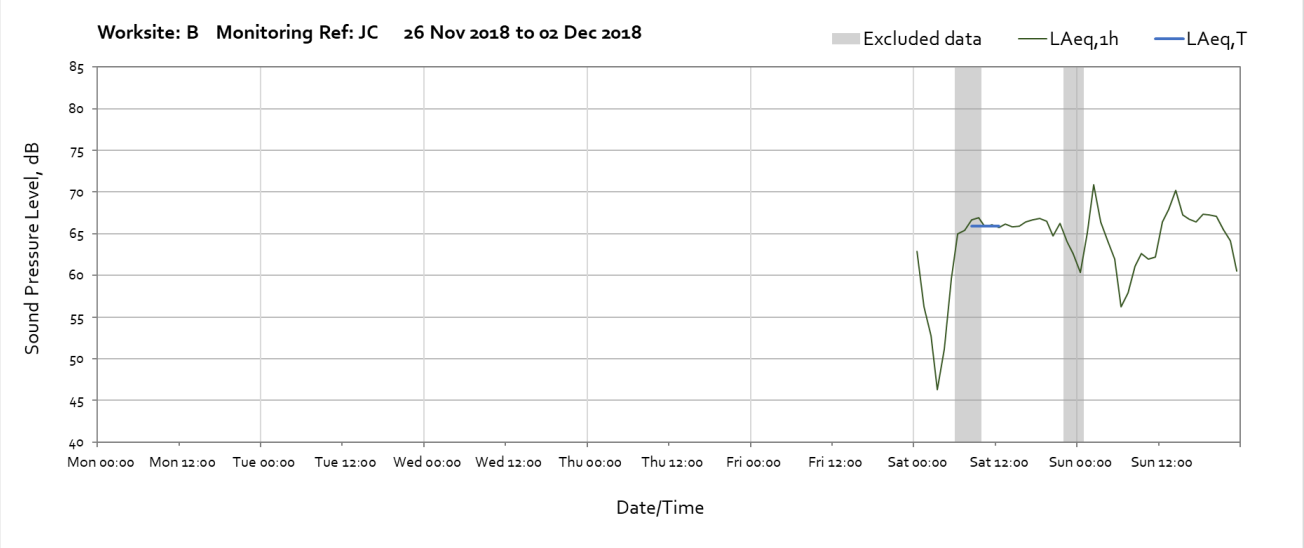
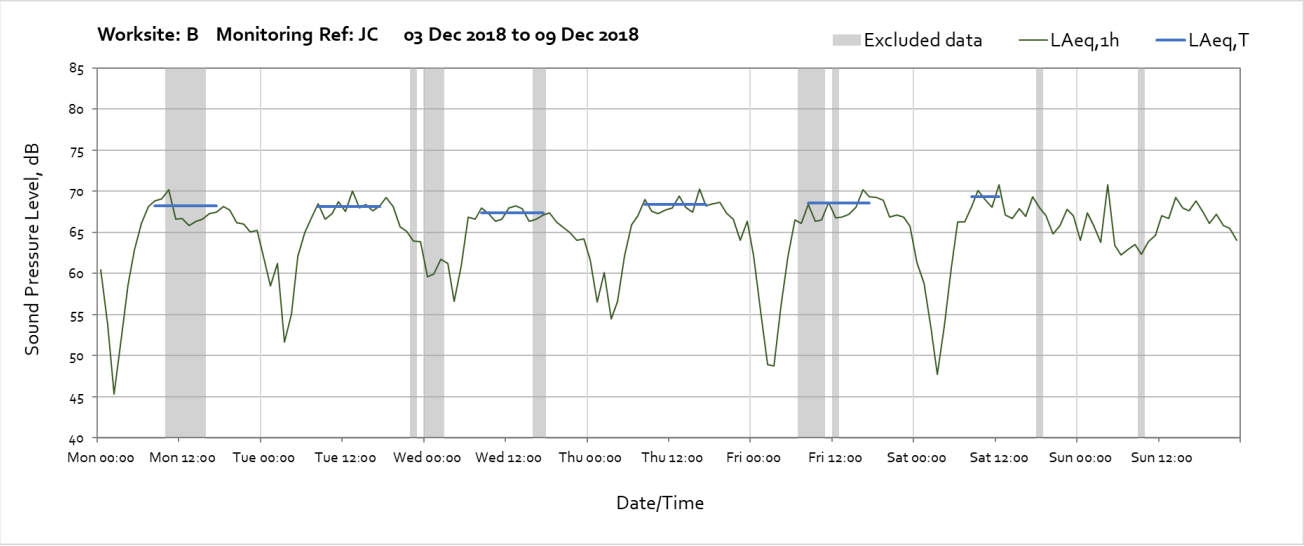
Date/Time

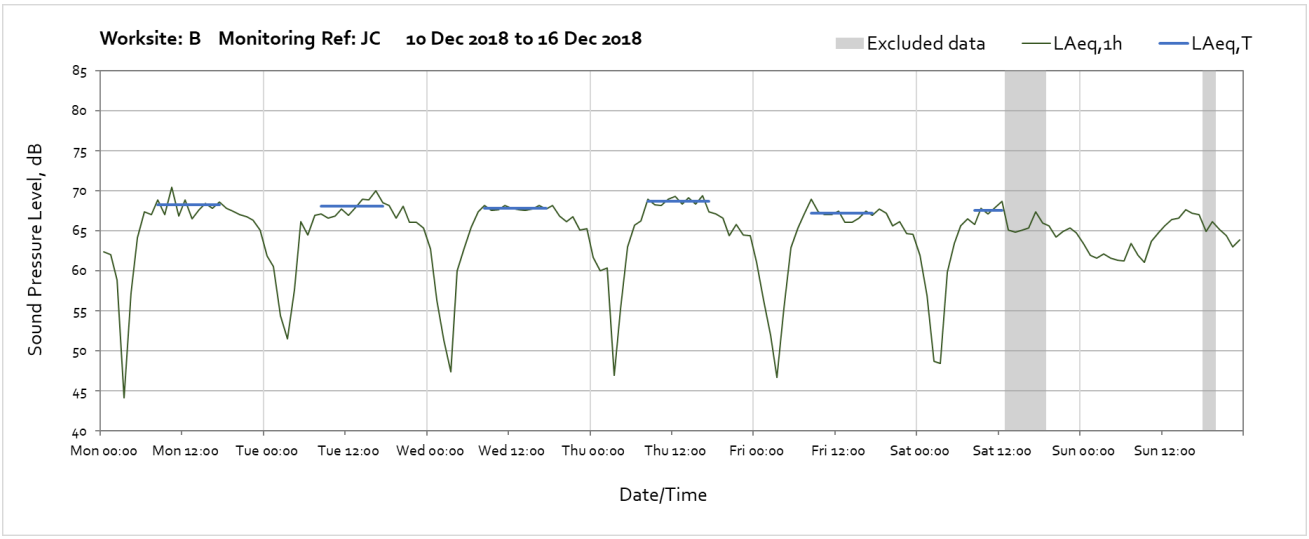


Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: B – Monitoring Ref: JC



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LAeq,T
Sound Pressure Level, dB
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75
70
65
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Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
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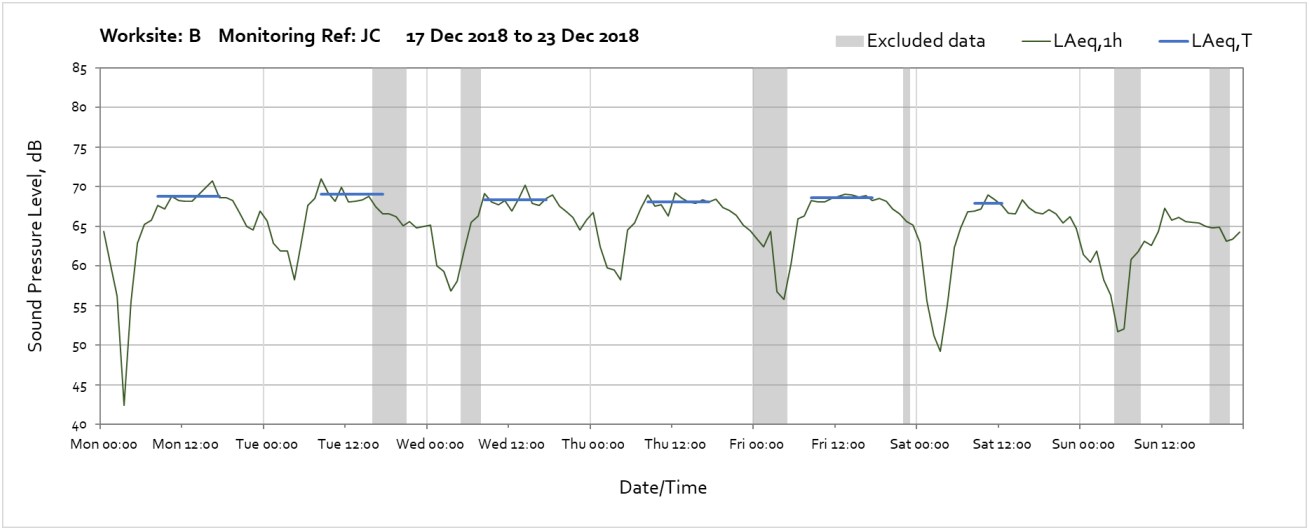
Date/Time


Worksite: B Monitoring Ref: JC 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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80
75
70
65
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Tue 00:00
Tue 12:00
Wed 00:00
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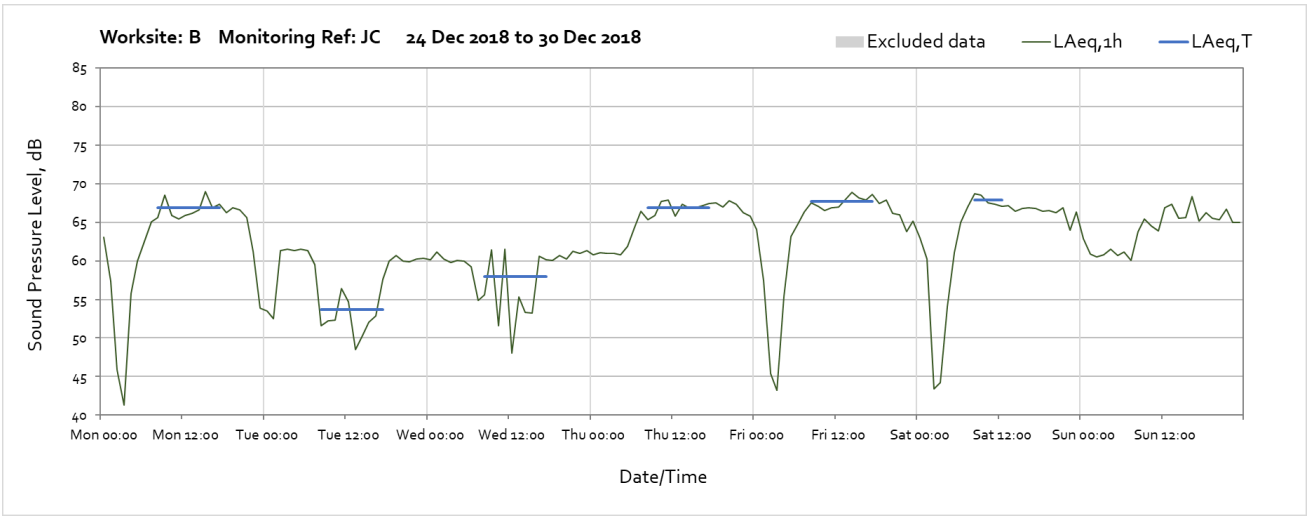
Sun 12:00
Date/Time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Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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80
75
70
65
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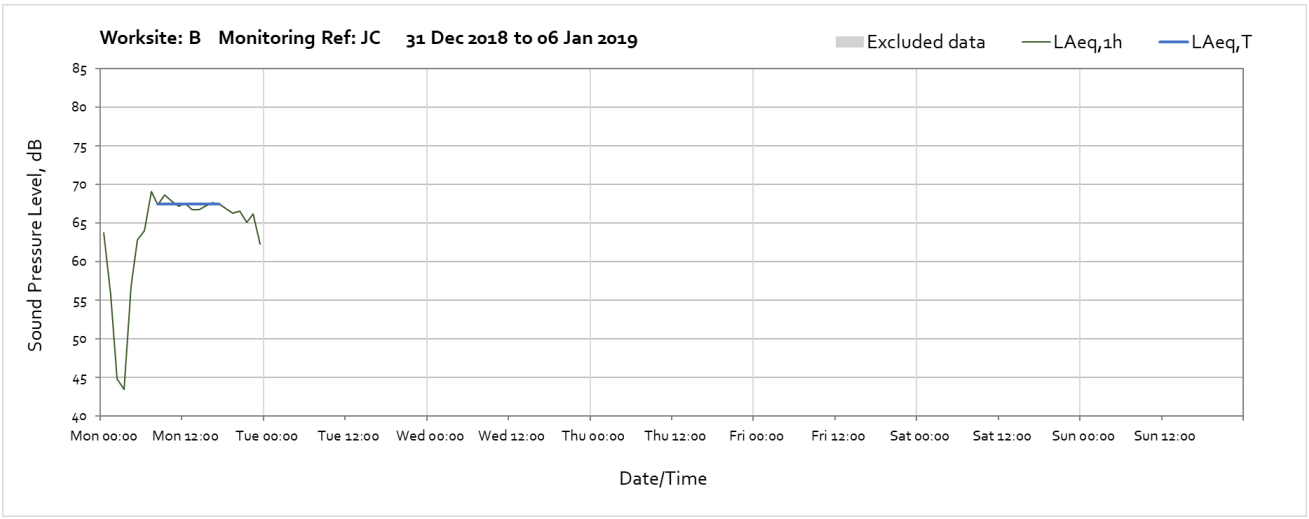
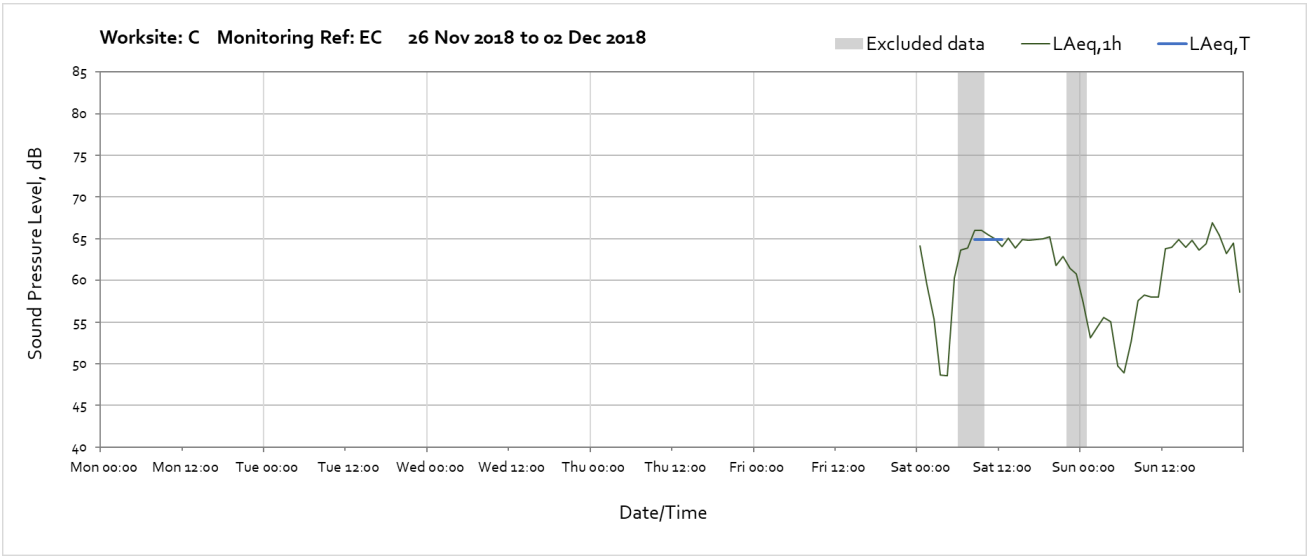
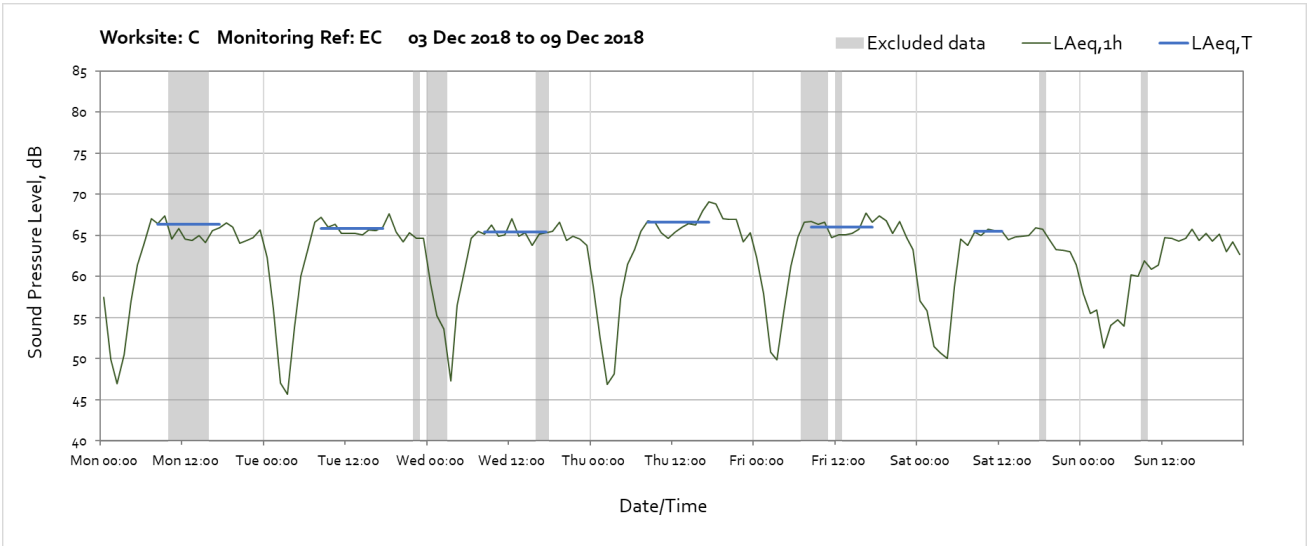
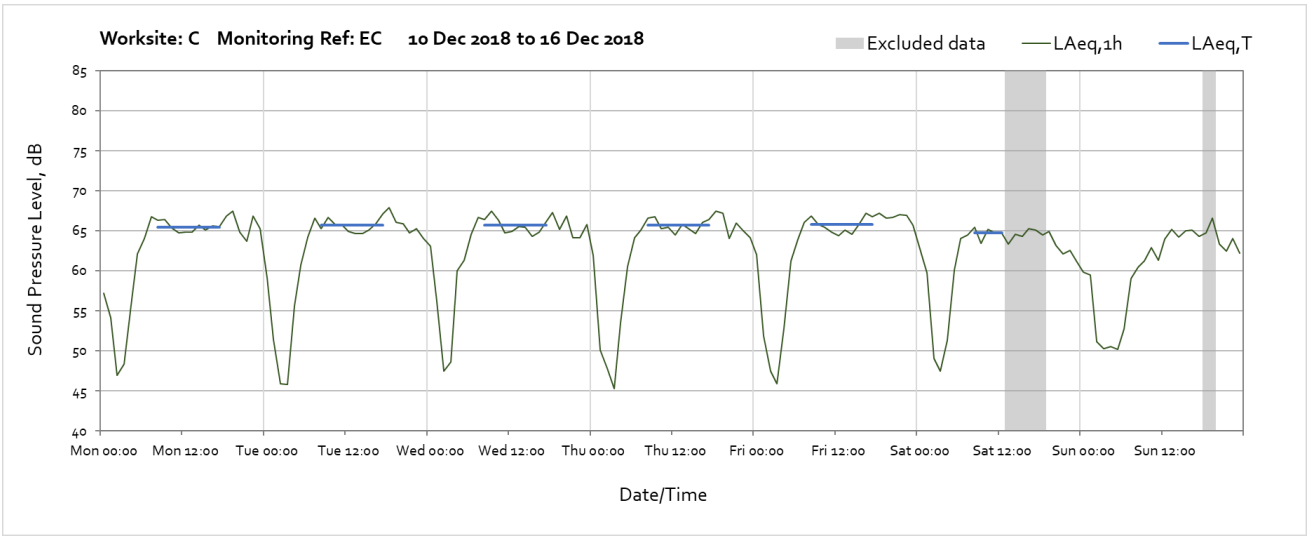


Worksite: C – Monitoring Ref: EC



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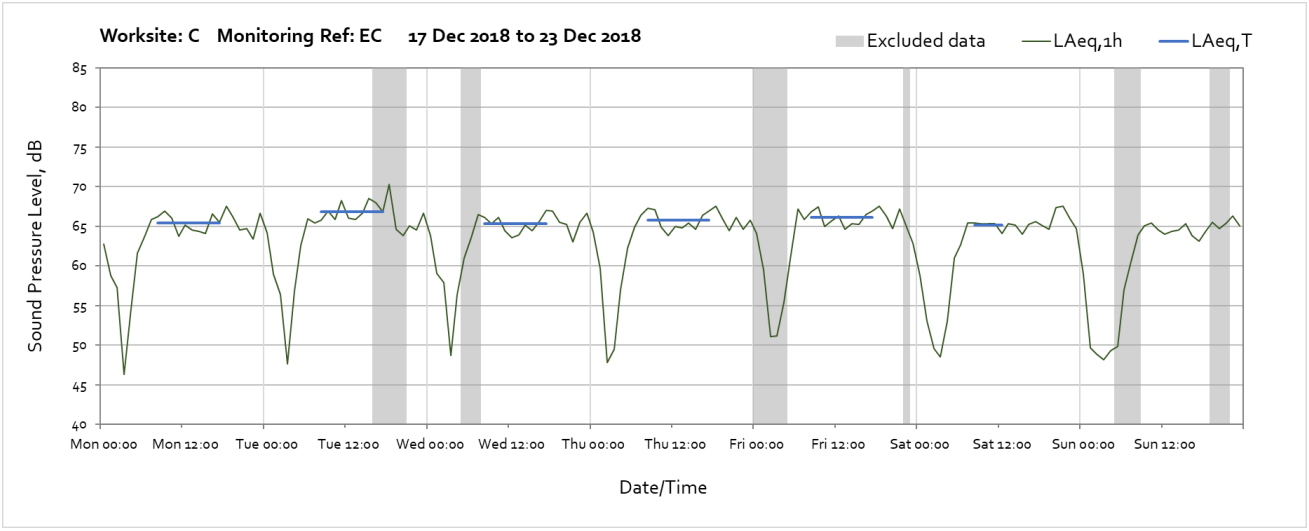
Date/Time


Worksite: C Monitoring Ref: EC 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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80
75
70
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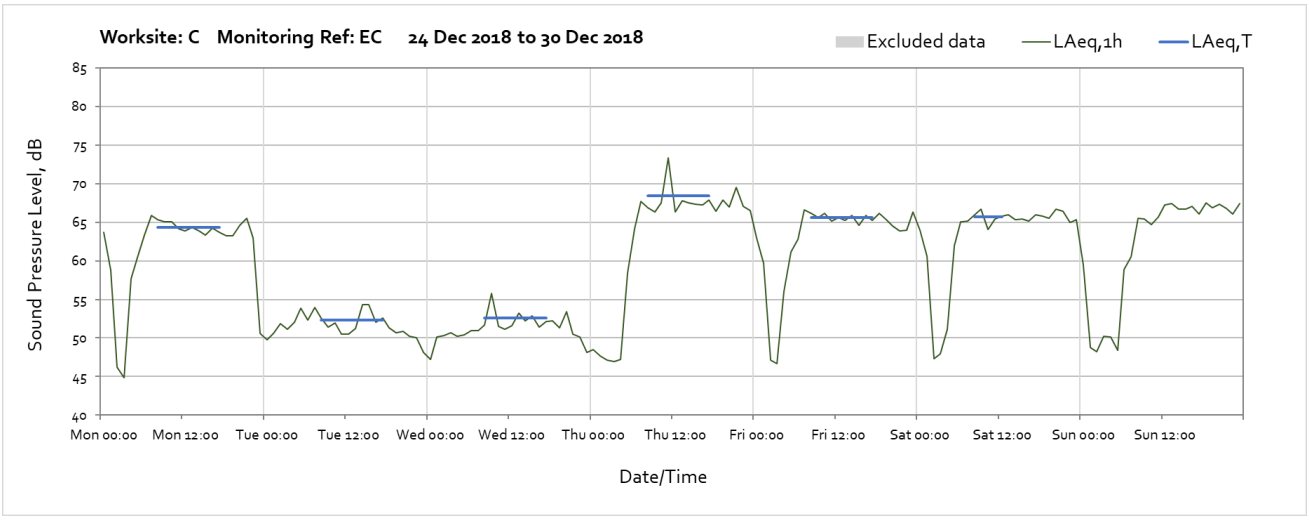
Sun 12:00
Date/Time


Worksite: C Monitoring Ref: EC 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
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Mon 00:00
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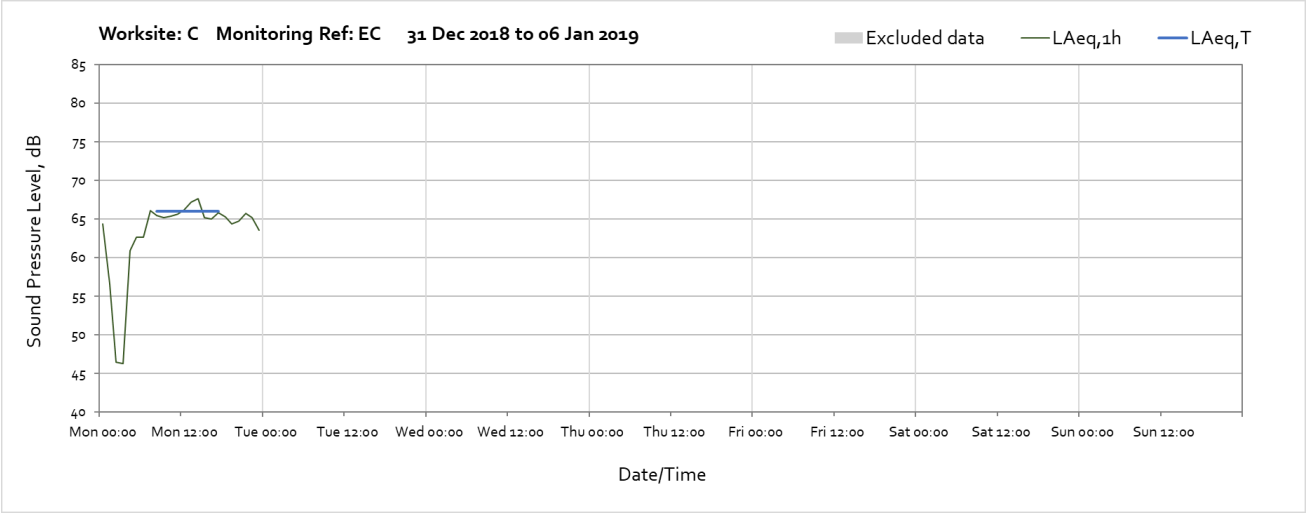
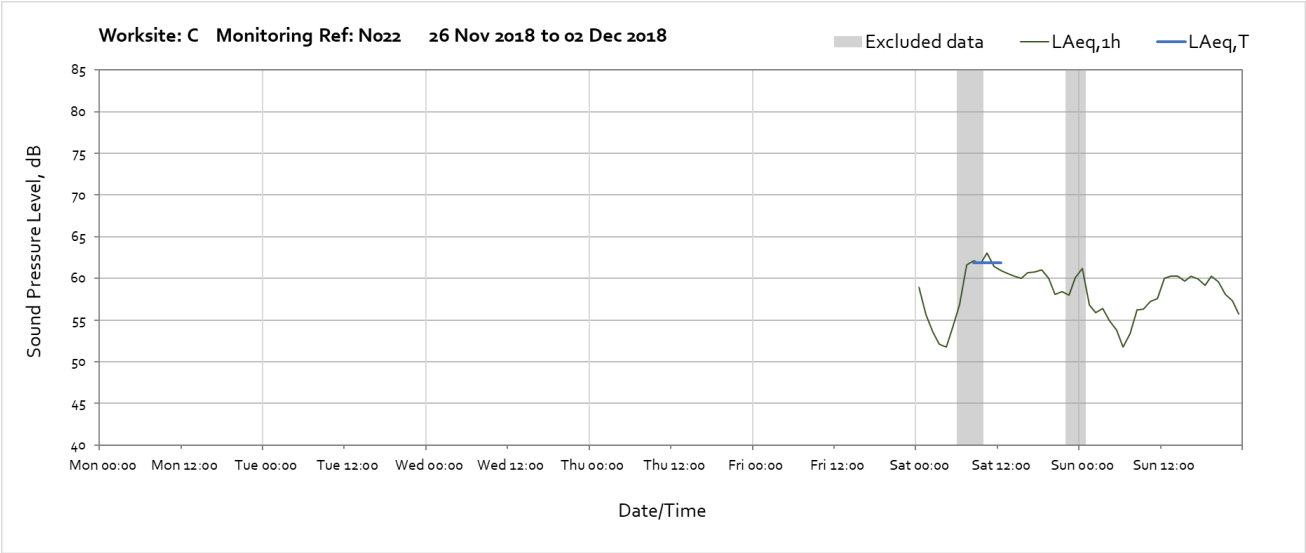
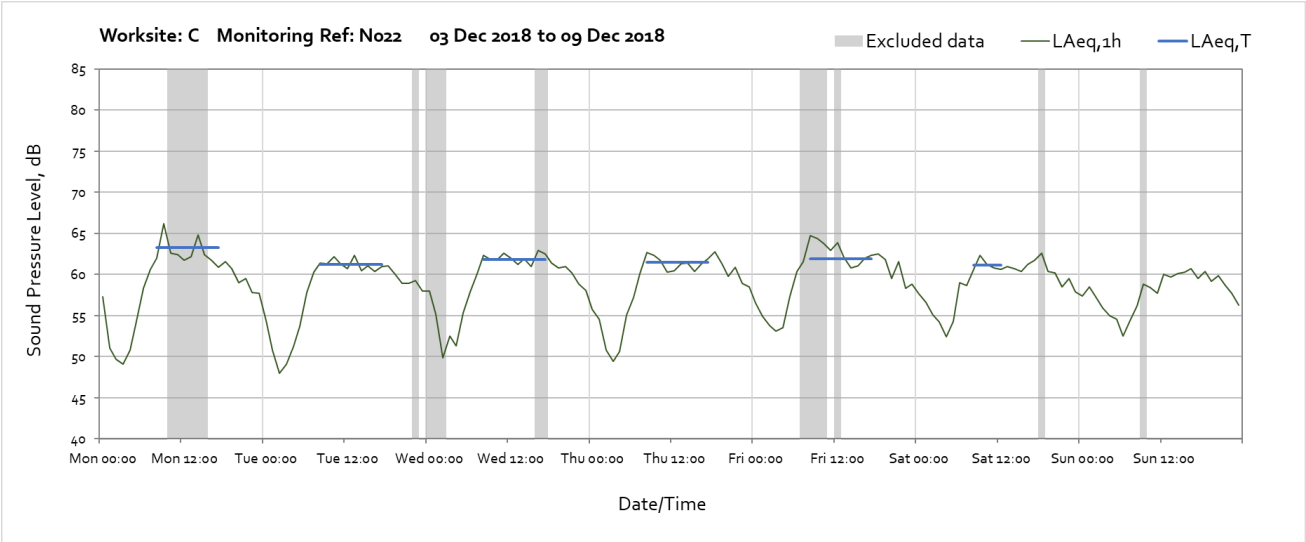
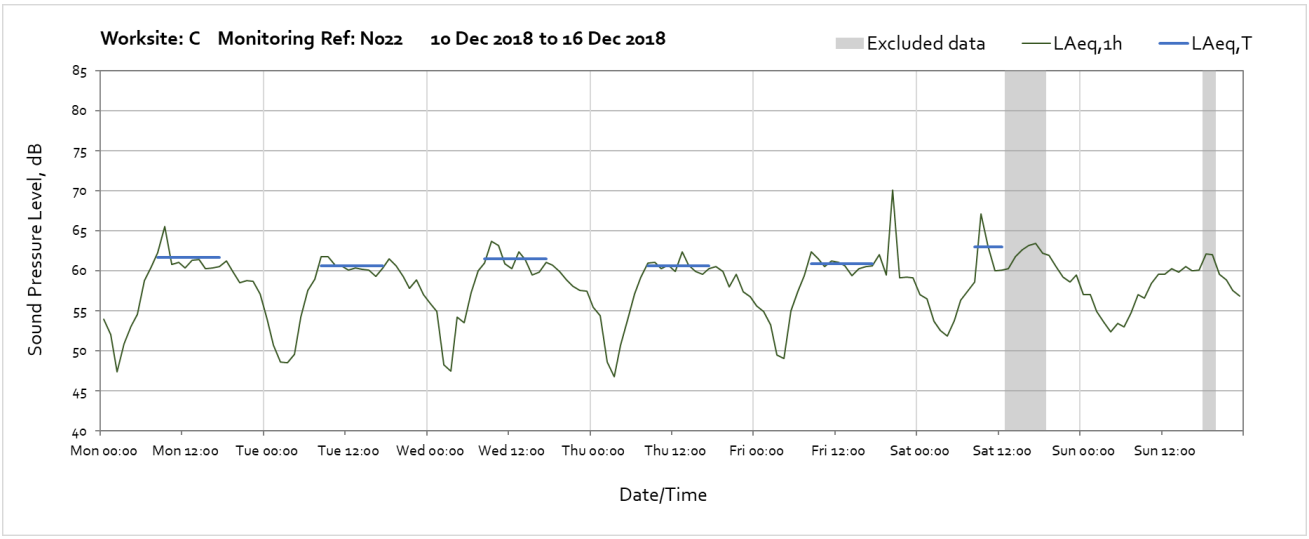
Date/Time



Worksite: C – Monitoring Ref: N022






Worksite: C Monitoring Ref: No22 10 Dec 2018 to 16 Dec 2018
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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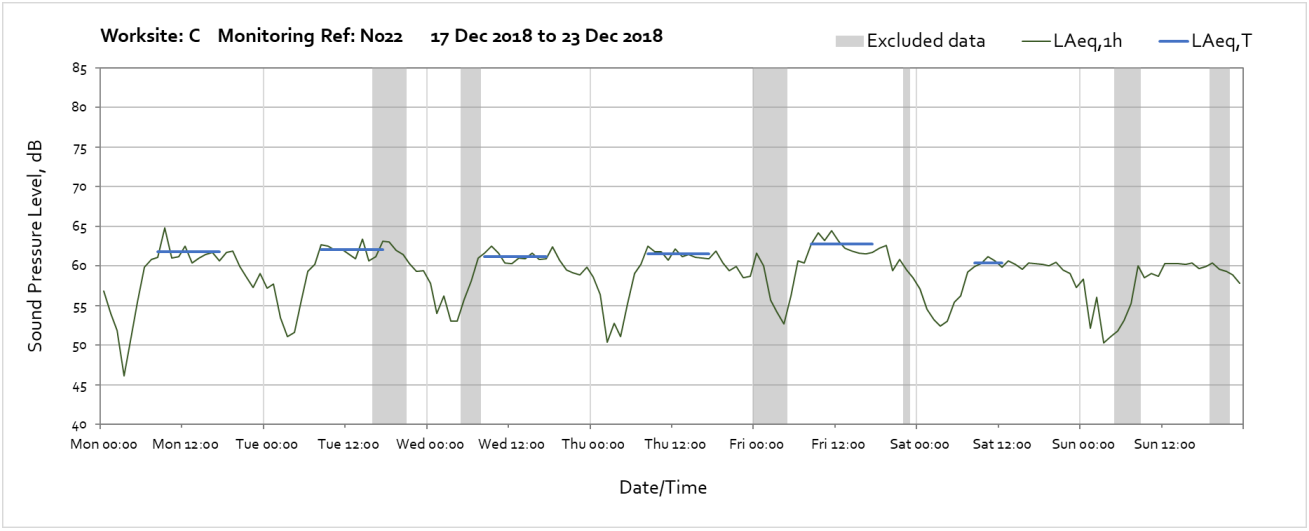
Date/Time


Worksite: C Monitoring Ref: No22 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
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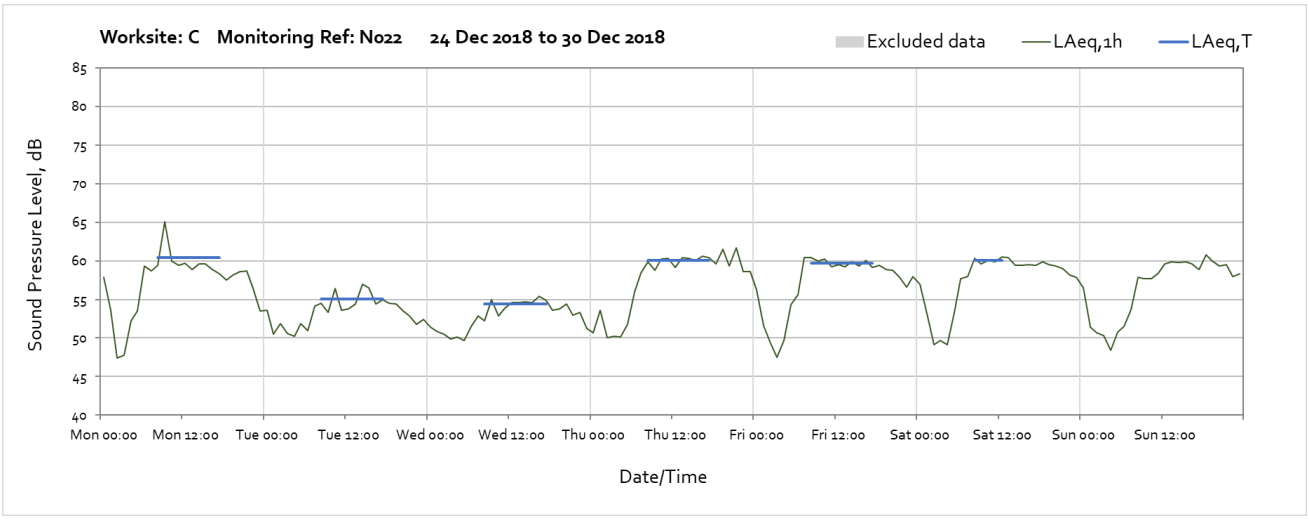
Date/Time


Worksite: C Monitoring Ref: No22 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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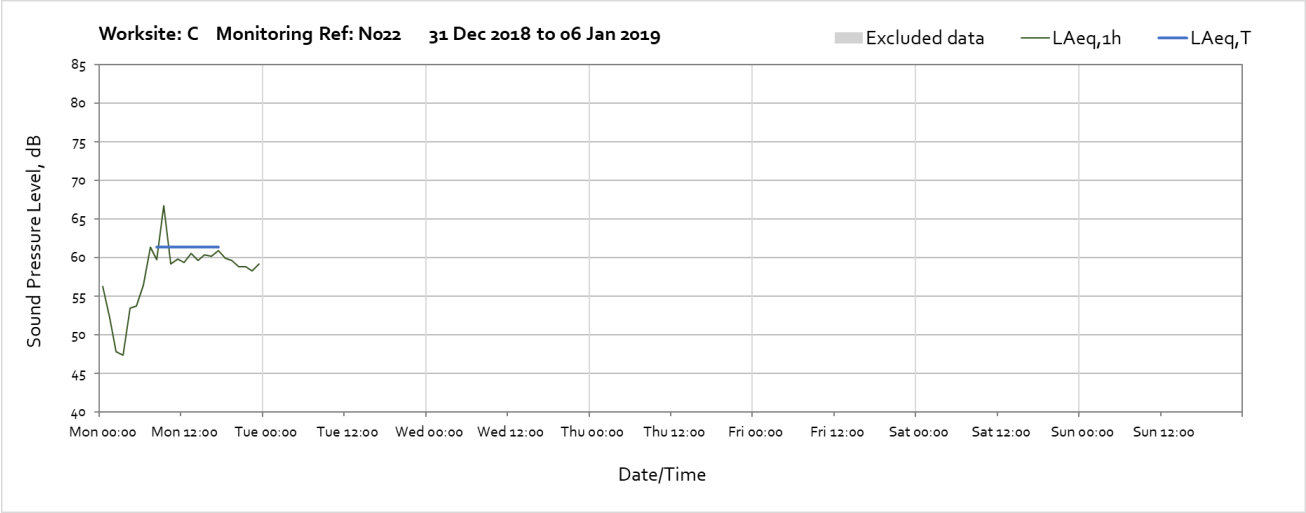
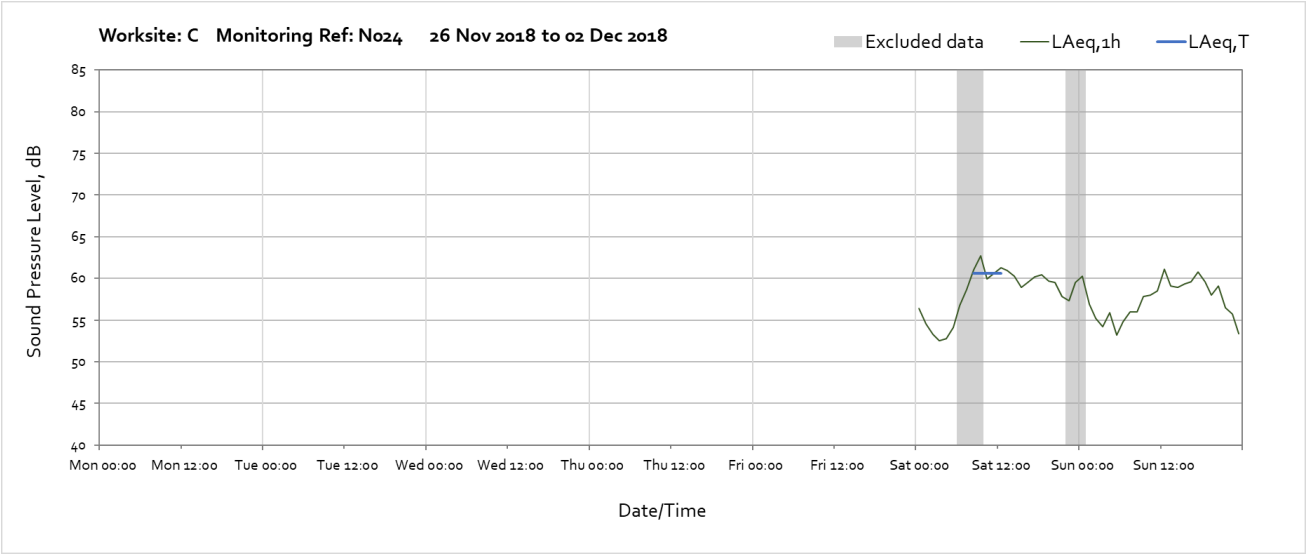
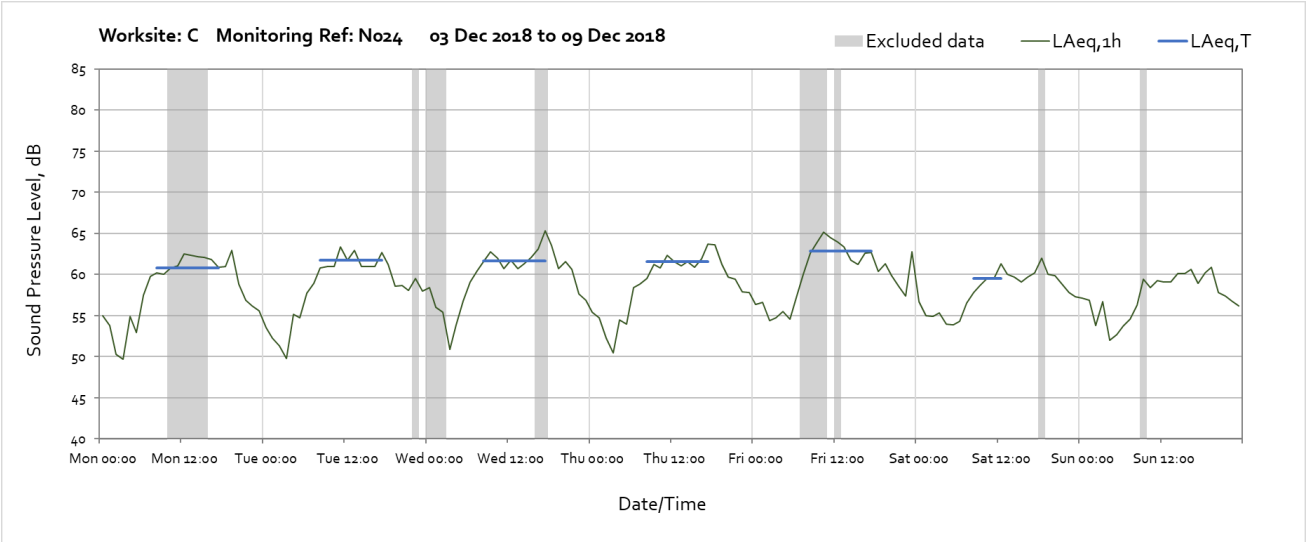
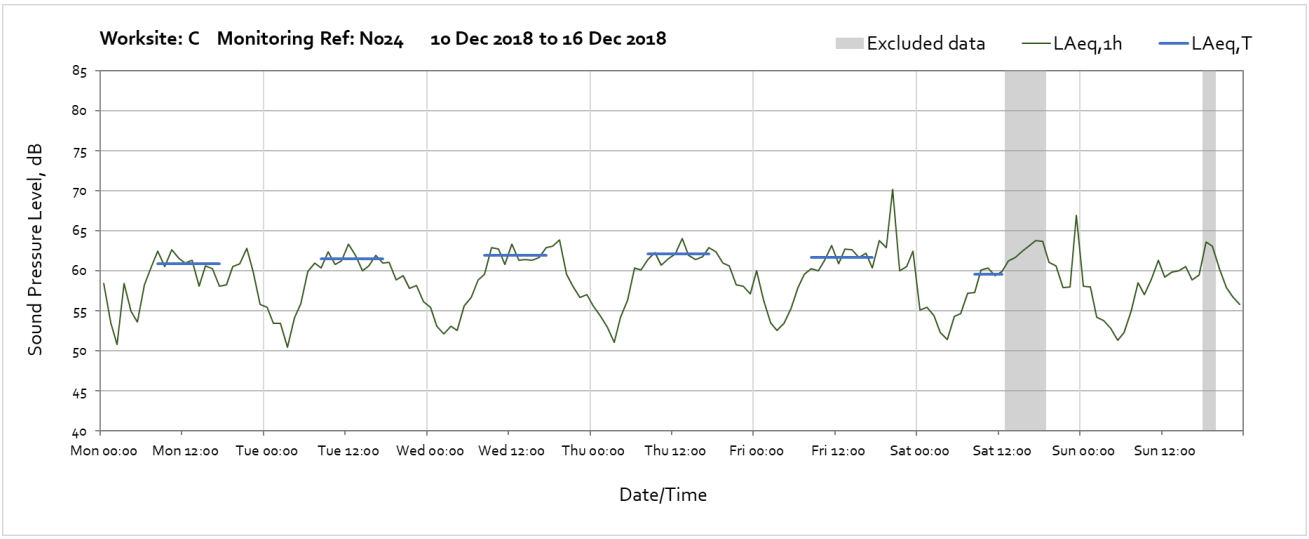
Date/Time



Worksite: C – Monitoring Ref: N024






Worksite: C Monitoring Ref: No24 10 Dec 2018 to 16 Dec 2018
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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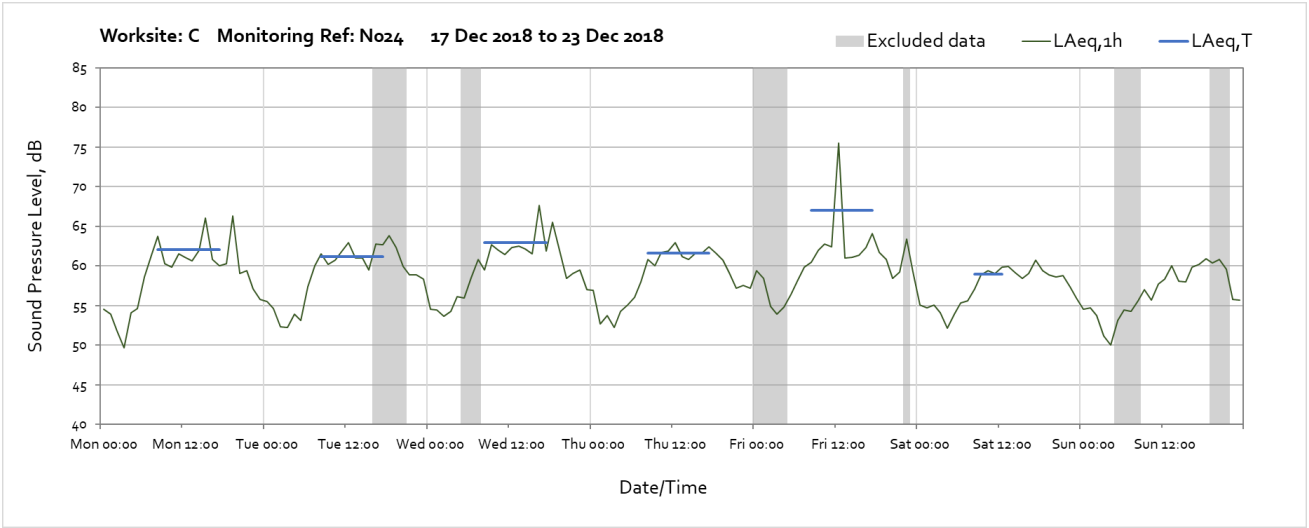
Worksite: C Monitoring Ref: No24 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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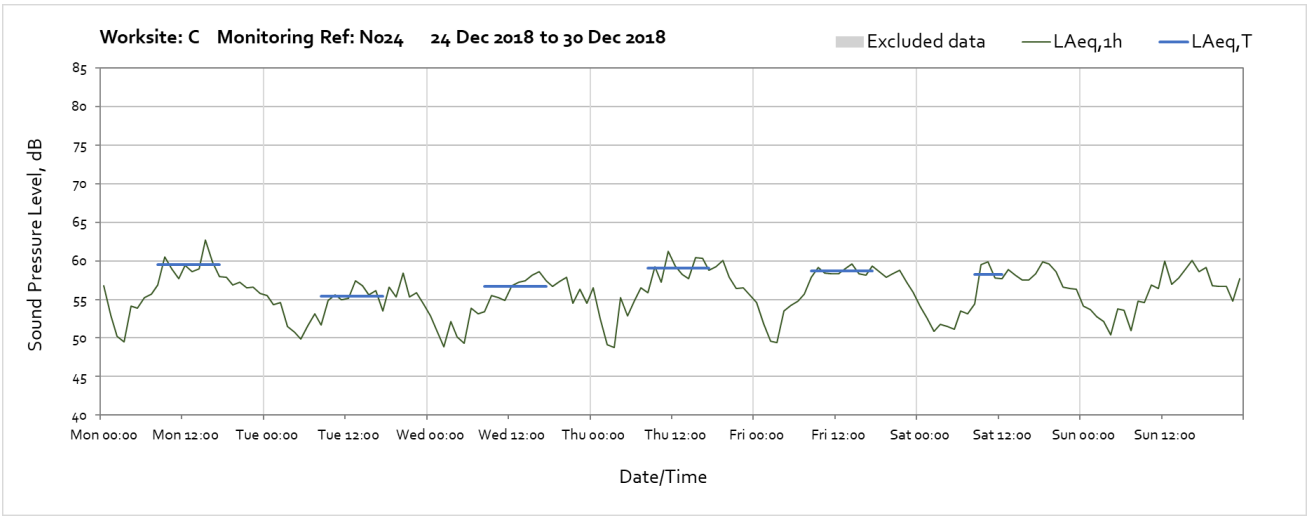
Date/Time


Worksite: C Monitoring Ref: No24 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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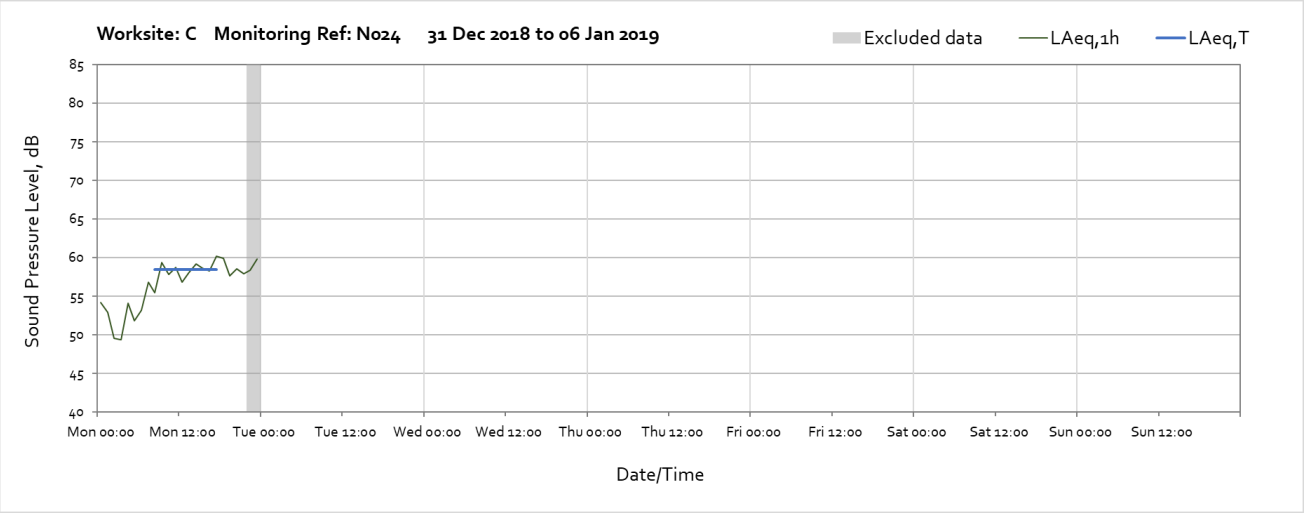
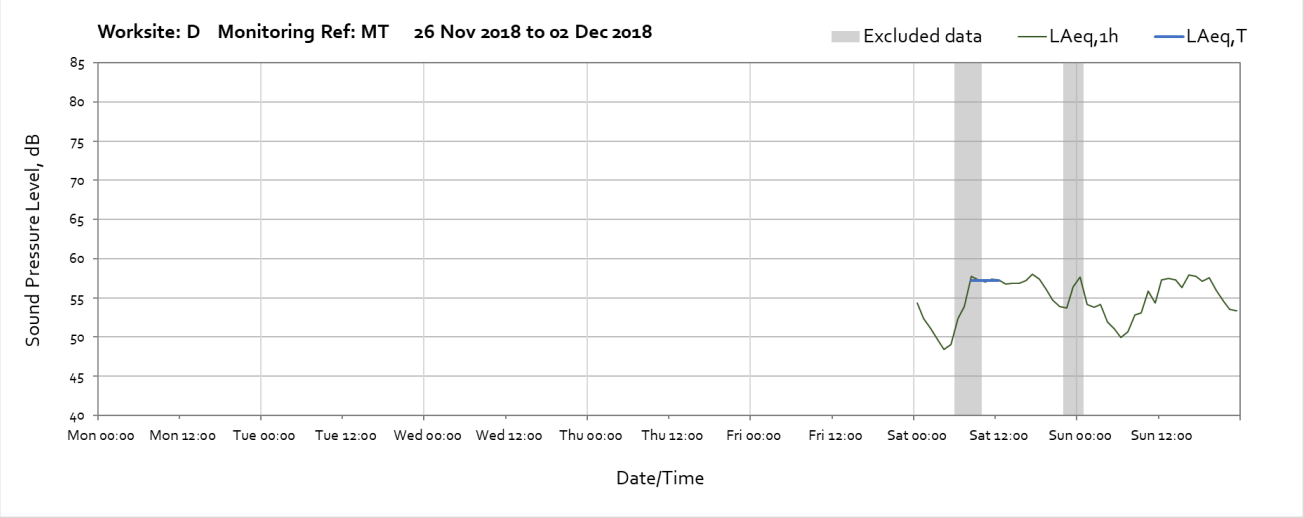
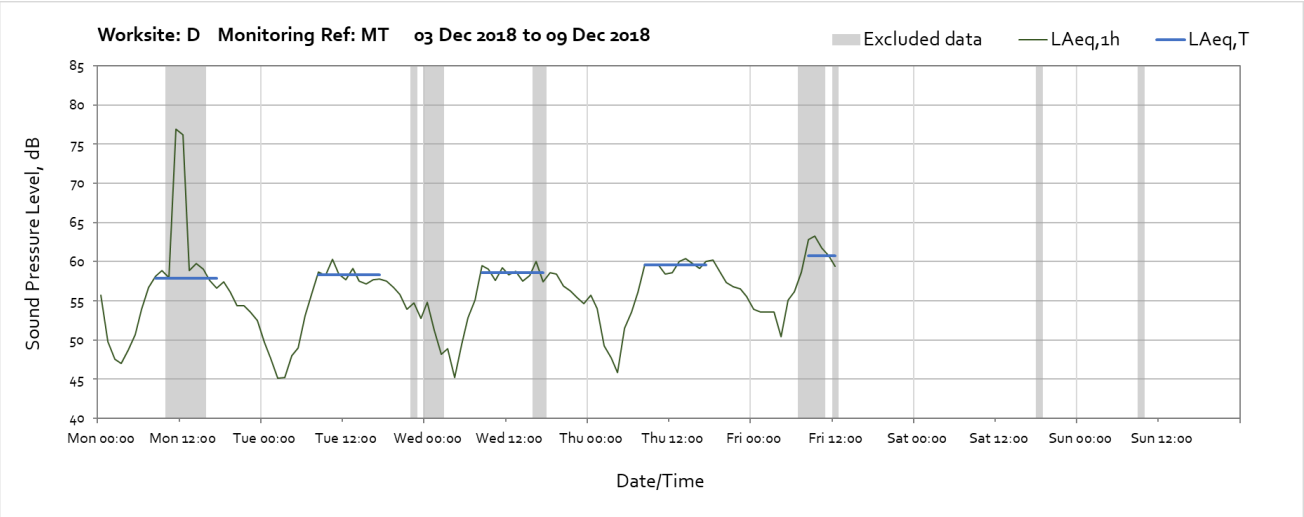


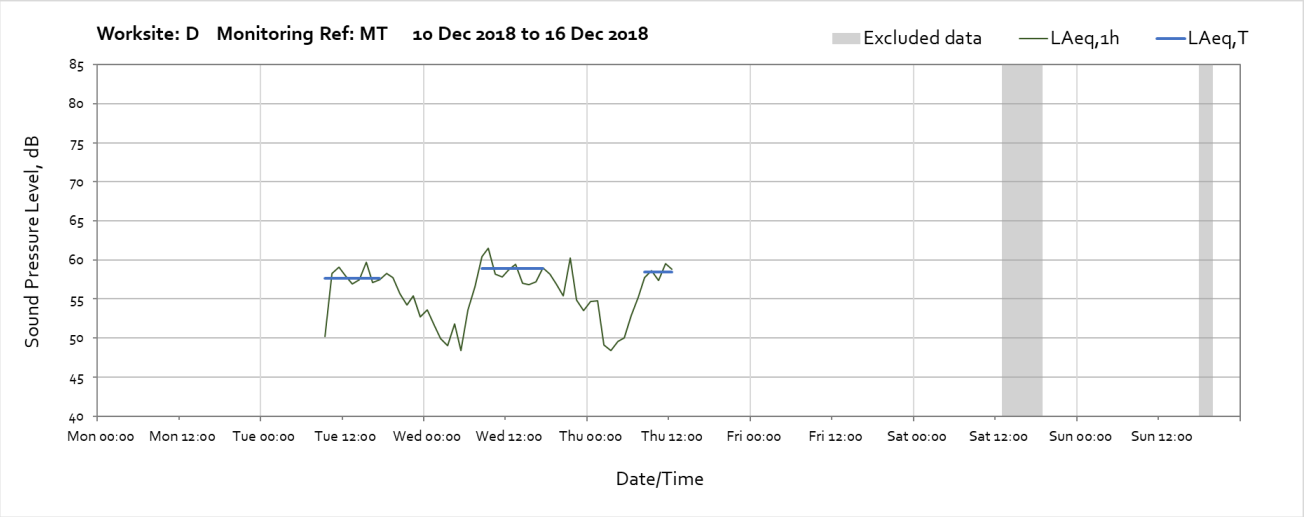
Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: D – Monitoring Ref: MT

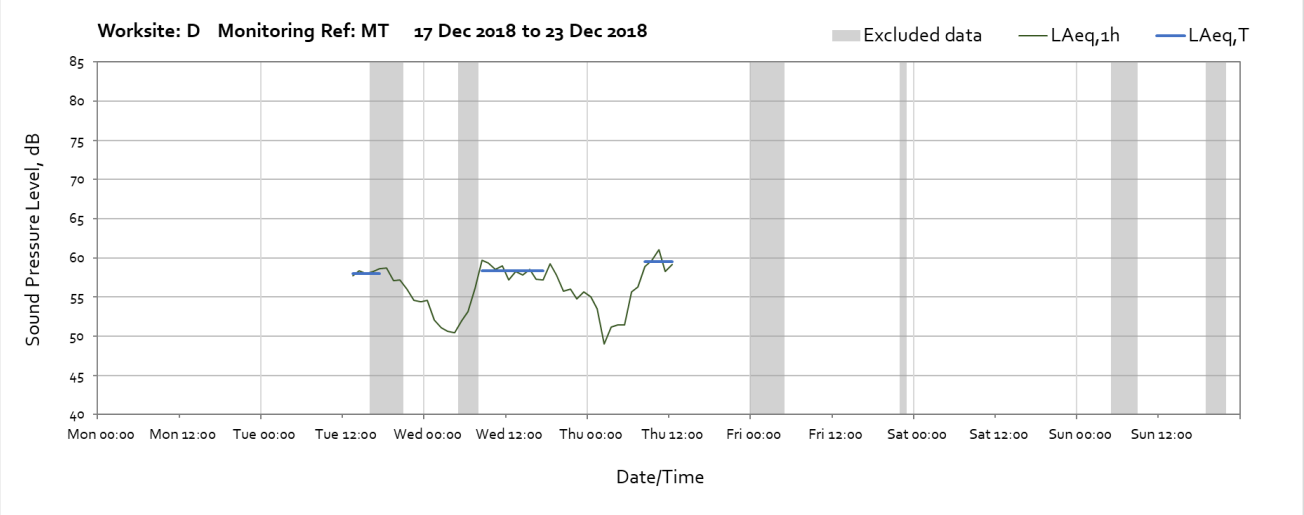




Note – Missing data between 12:00 on Friday 7th and 09:00 on Tuesday 11th due to a loss of power at the noise monitor.

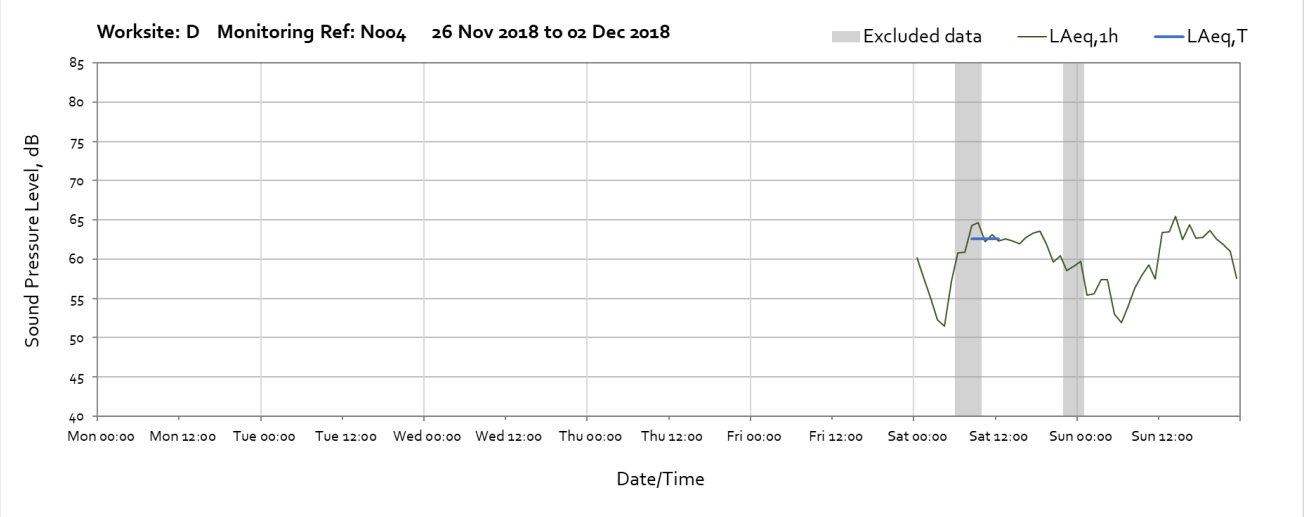


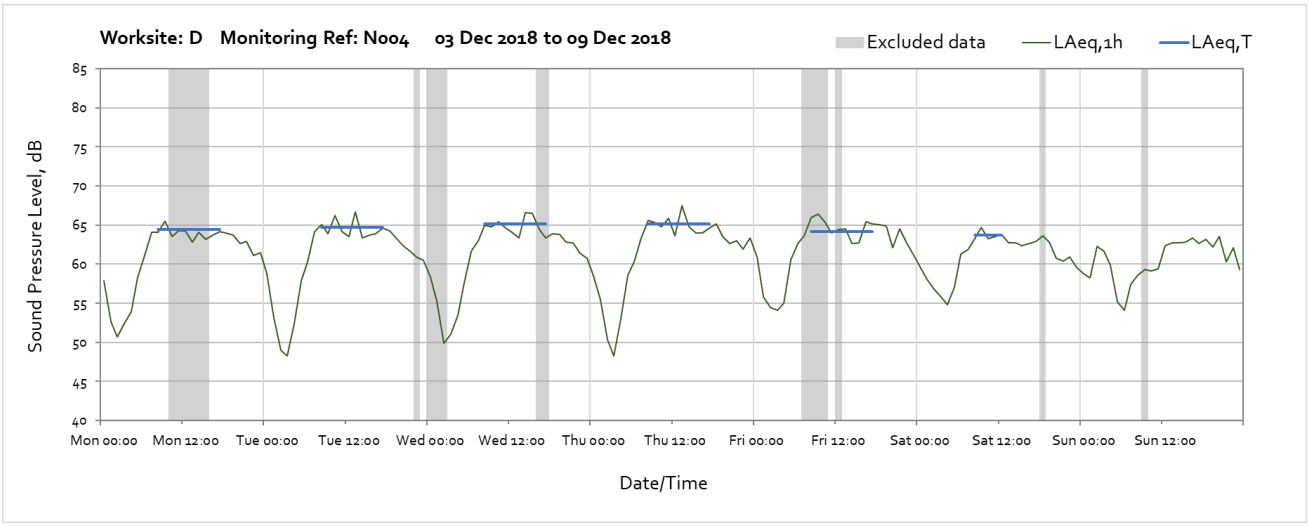
Note – Missing data between 12:00 on Friday 7th and 09:00 on Tuesday 11th and between 12:00 on Thursday 13th and 13:00 on Tuesday 18th due to a loss of power at the noise monitor.



Note – Missing data between 12:00 on Thursday 13th and 13:00 on Tuesday 18th and between 12:00 on Thursday 20th and 24:00 on Monday 31st due to a loss of power at the noise monitor.

Worksite: D – Monitoring Ref: N004




Worksite: D Monitoring Ref: N004 03 Dec 2018 to 09 Dec 2018
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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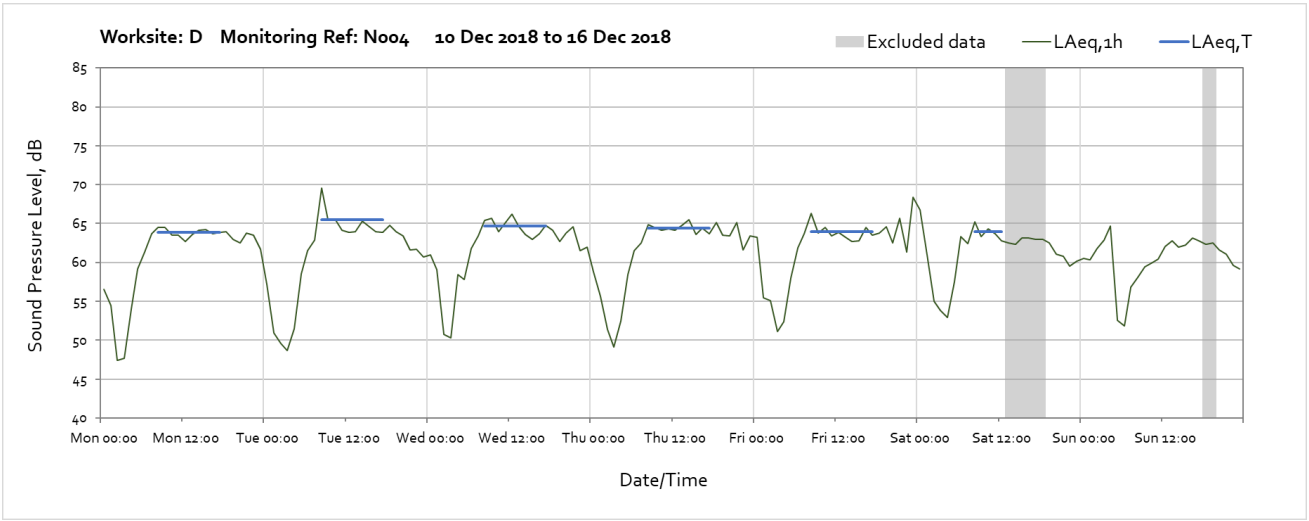
Sun 12:00
Date/Time


Worksite: D Monitoring Ref: N004 10 Dec 2018 to 16 Dec 2018
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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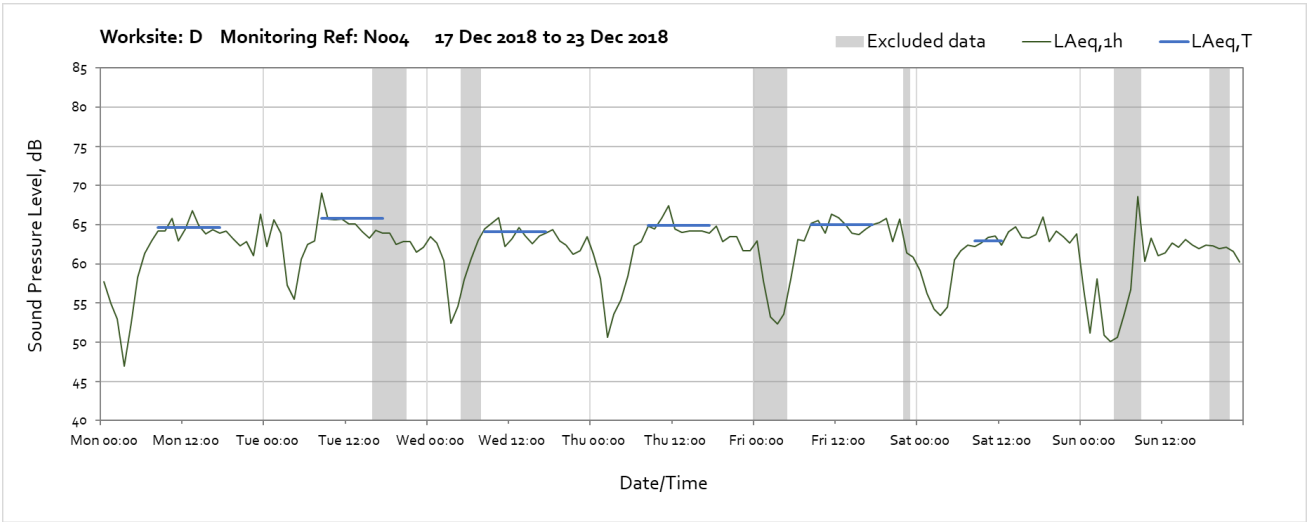
Date/Time


Worksite: D Monitoring Ref: N004 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
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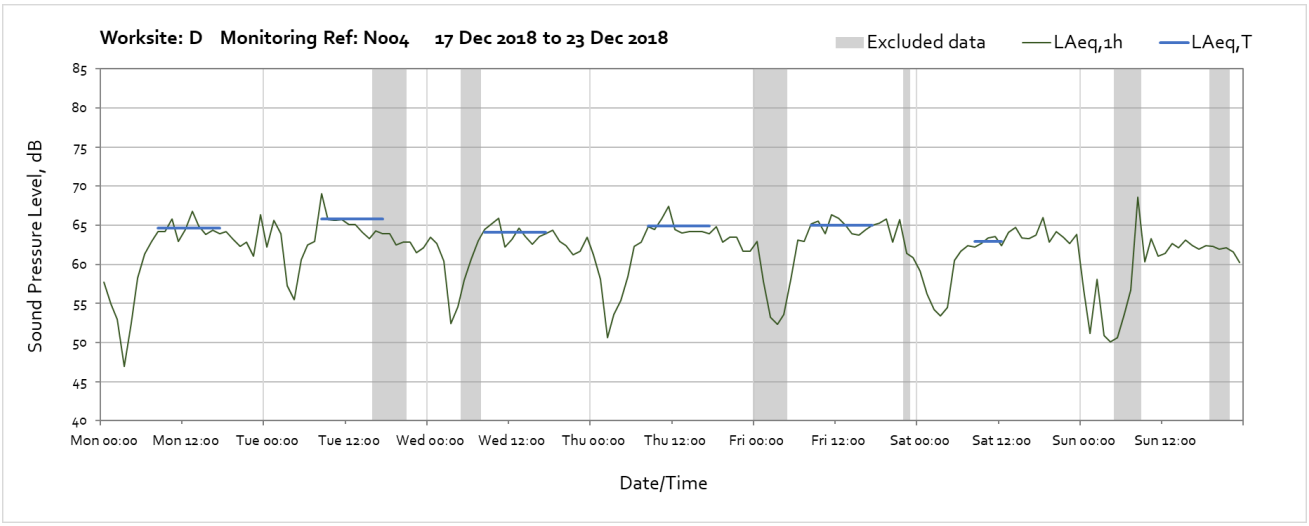
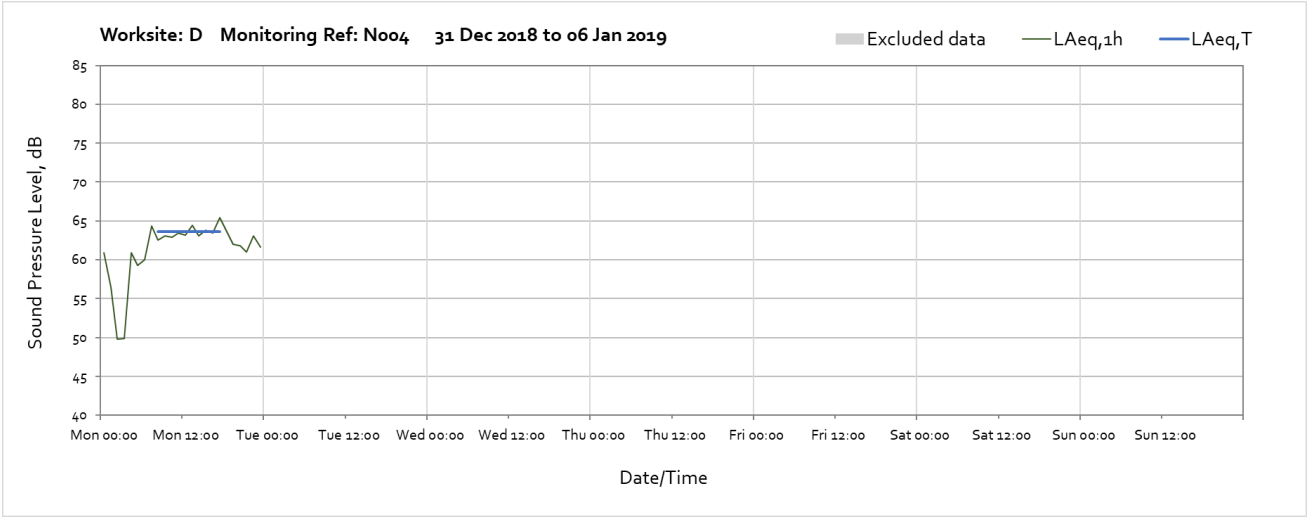
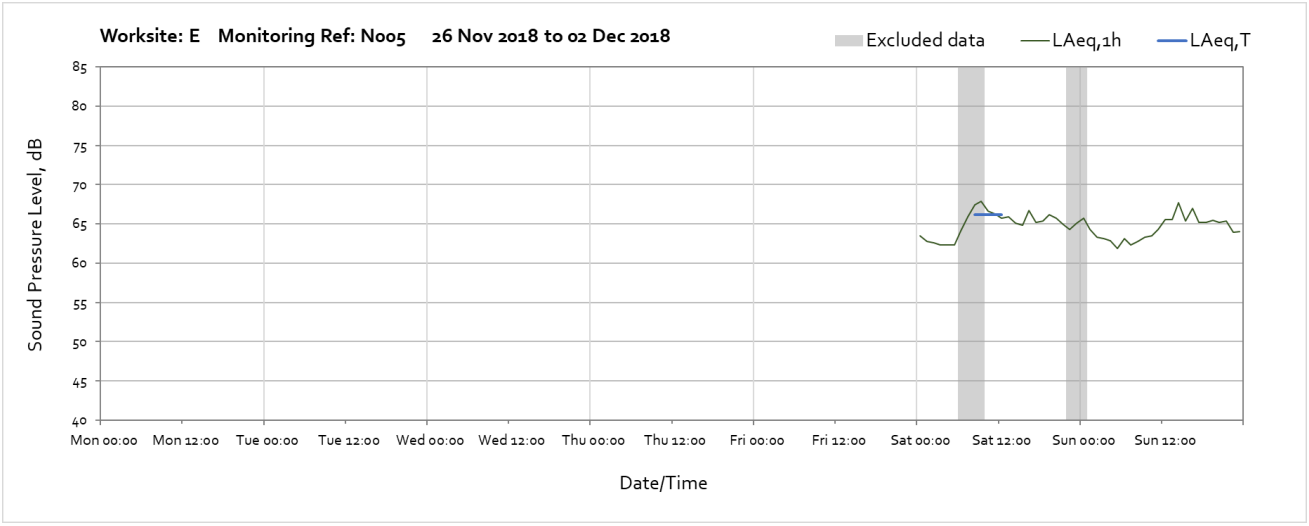
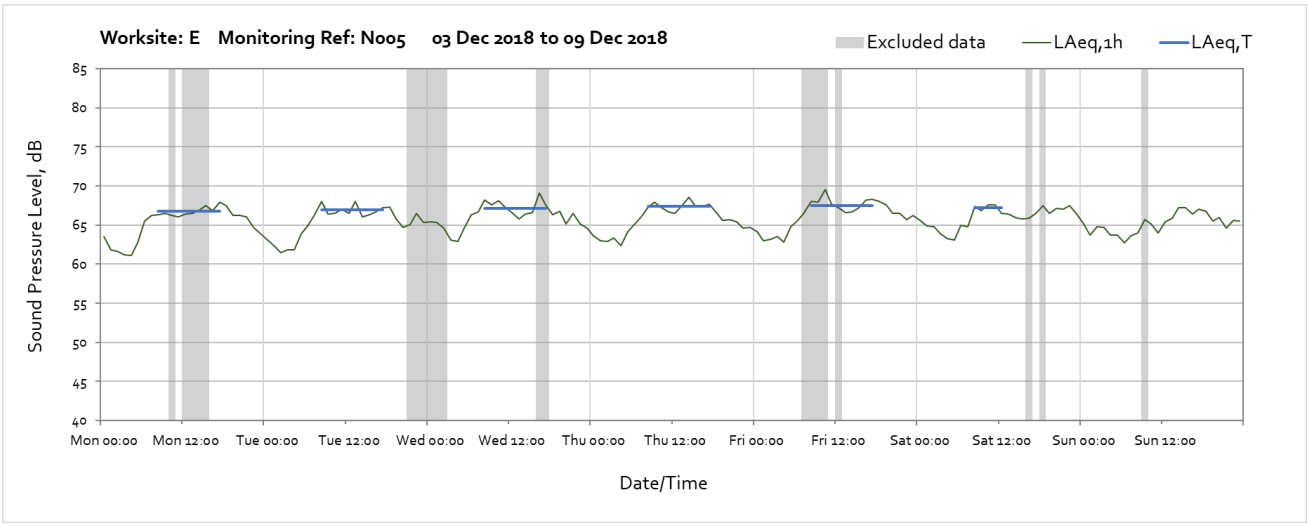
Date/Time





Worksite: E – Monitoring Ref: N005




Worksite: E Monitoring Ref: No05 03 Dec 2018 to 09 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
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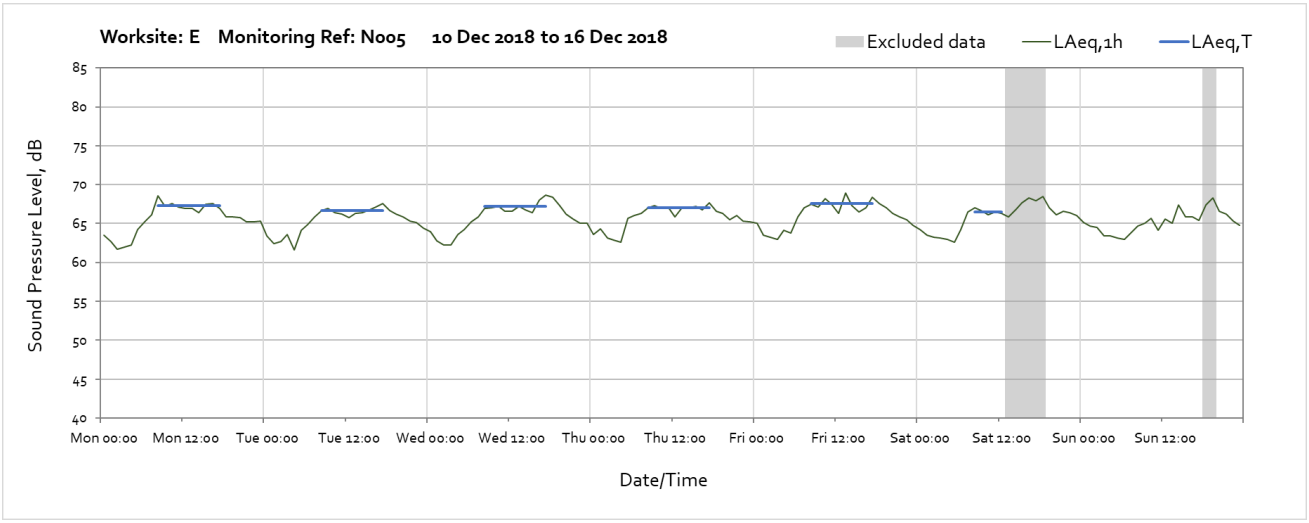
Date/Time


Worksite: E Monitoring Ref: No05 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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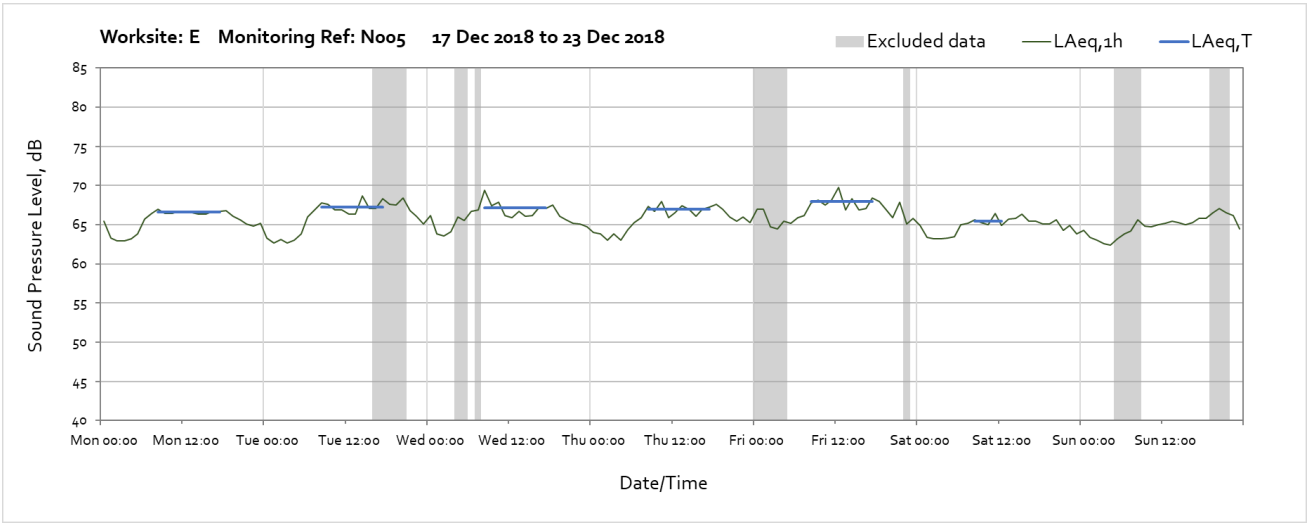
Date/Time


Worksite: E Monitoring Ref: No05 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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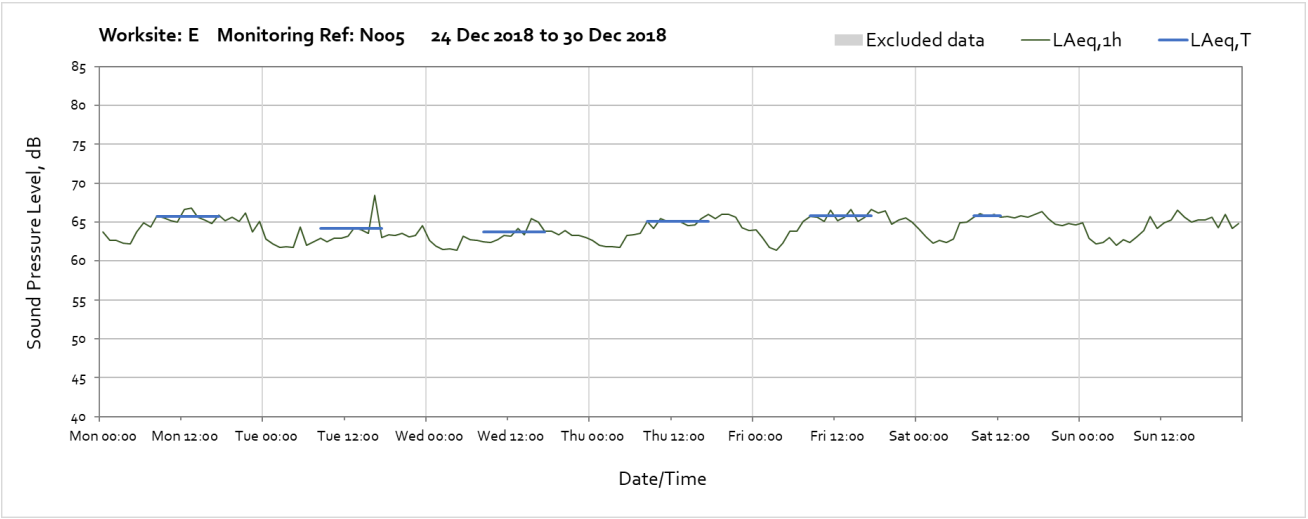
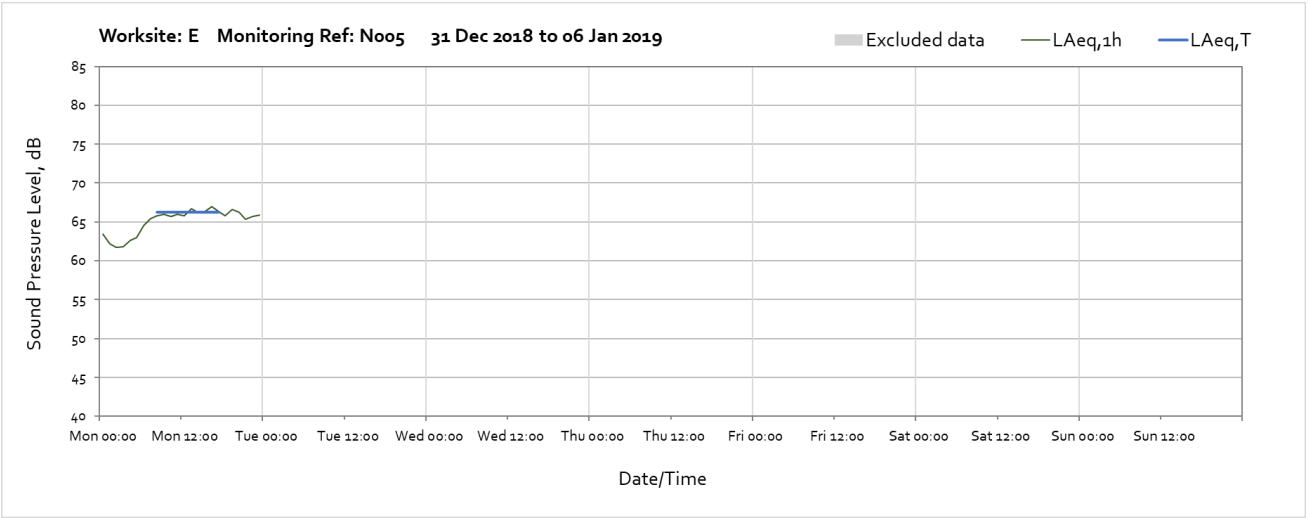
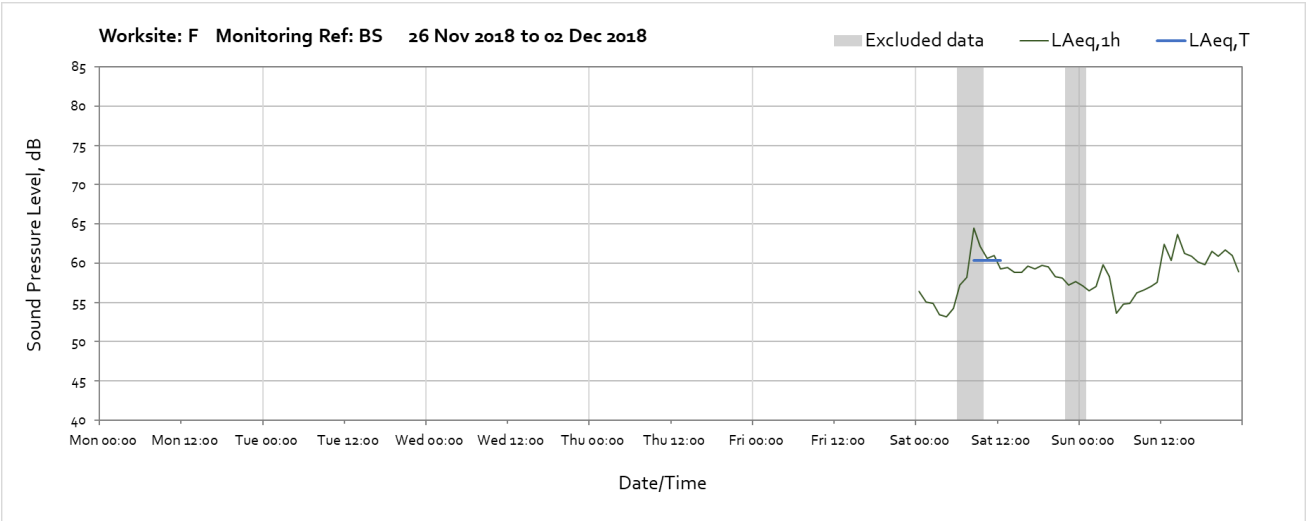
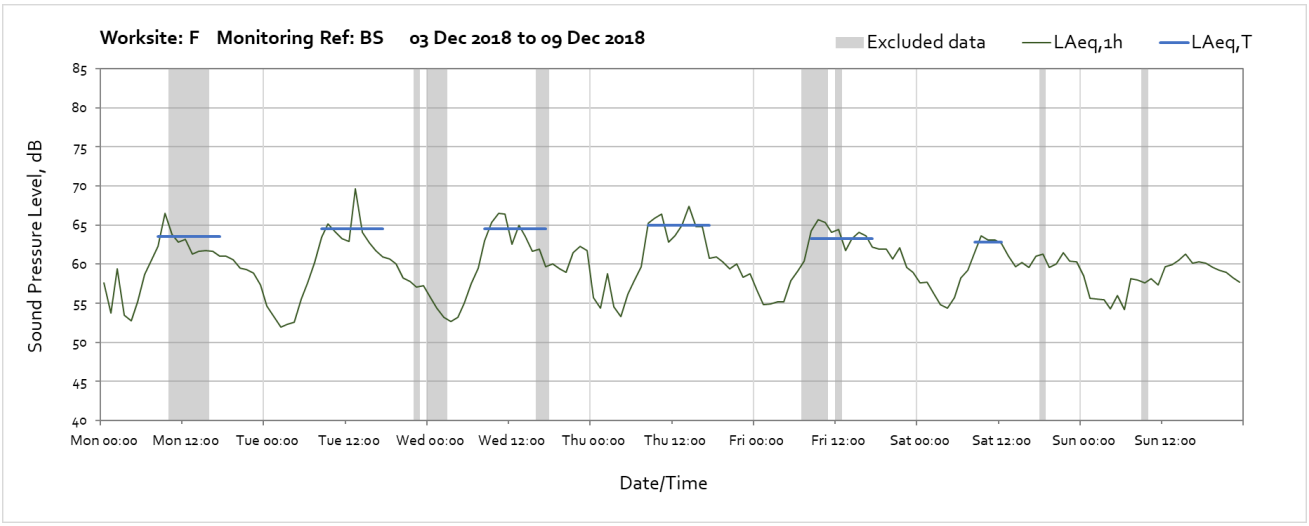
Date/Time





Worksite: F – Monitoring Ref: BS




Worksite: F Monitoring Ref: BS 03 Dec 2018 to 09 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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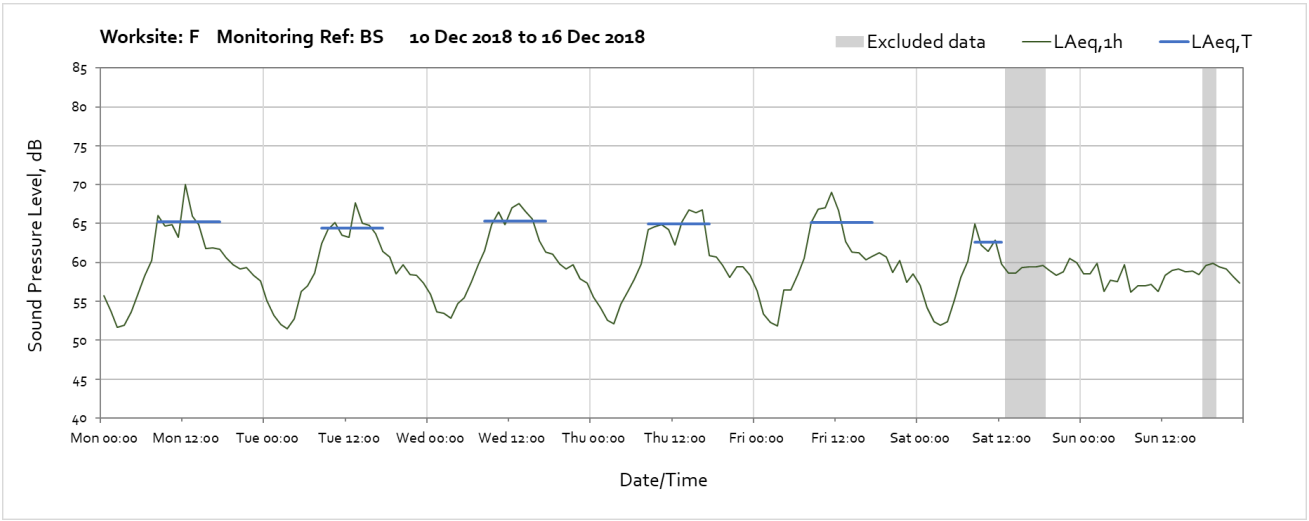
Date/Time


Worksite: F Monitoring Ref: BS 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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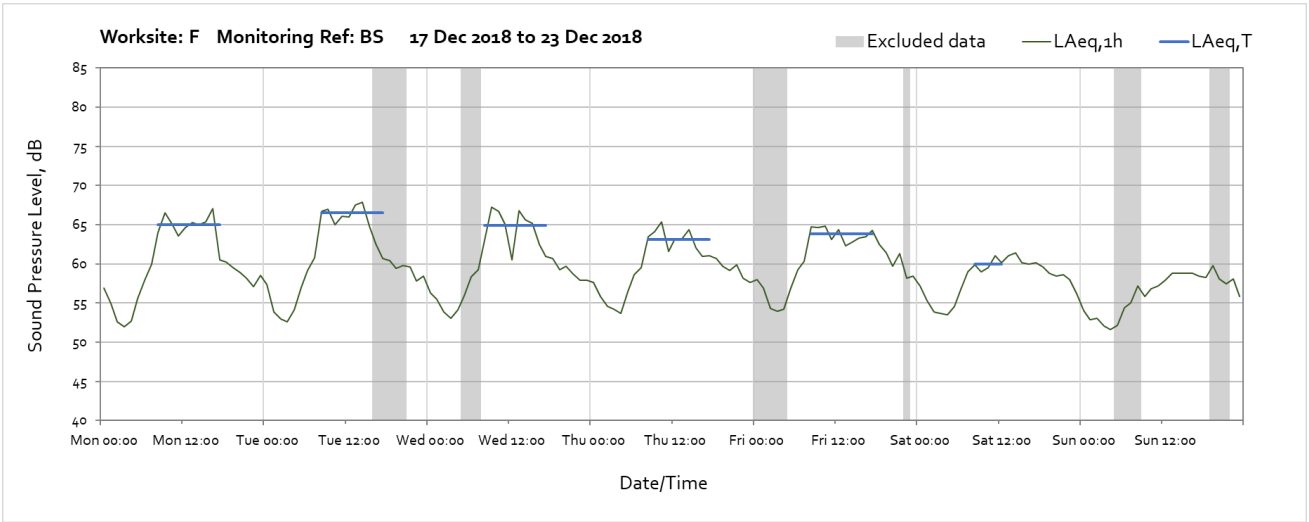
Worksite: F Monitoring Ref: BS 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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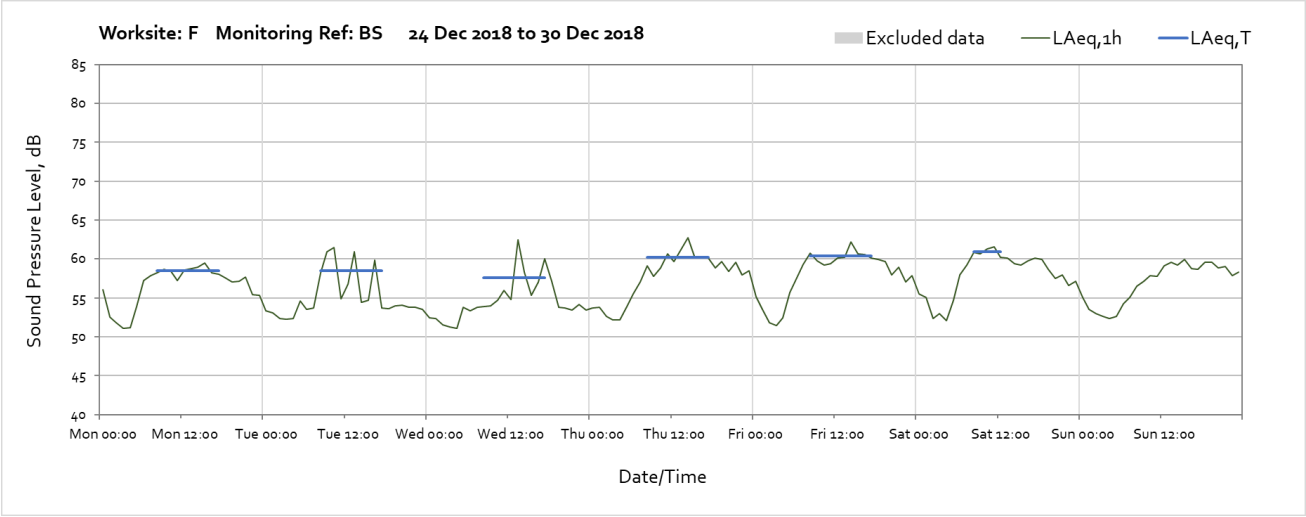
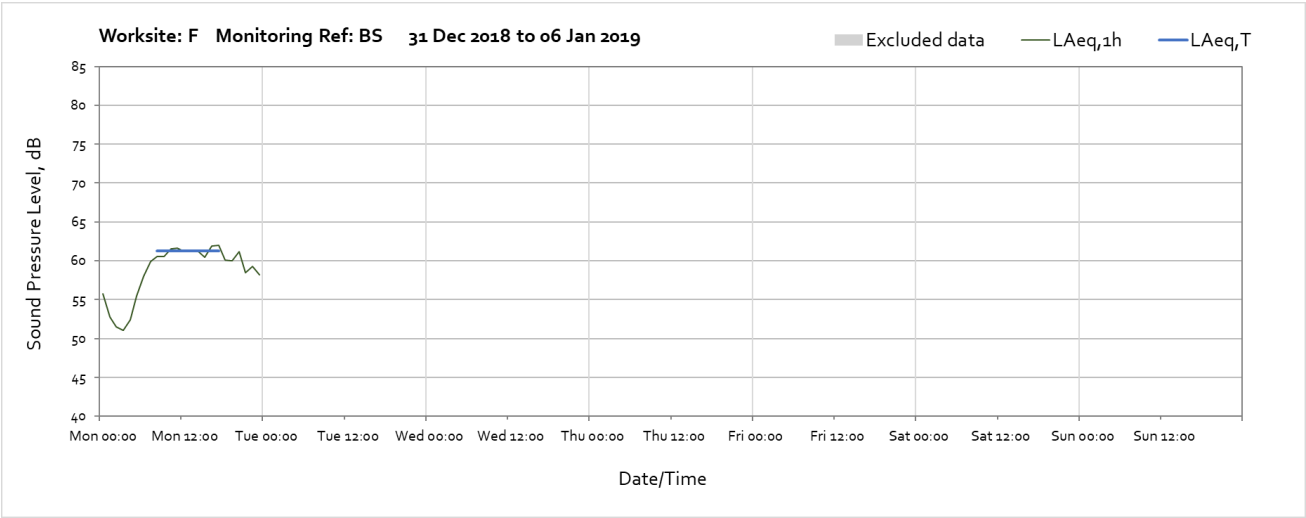
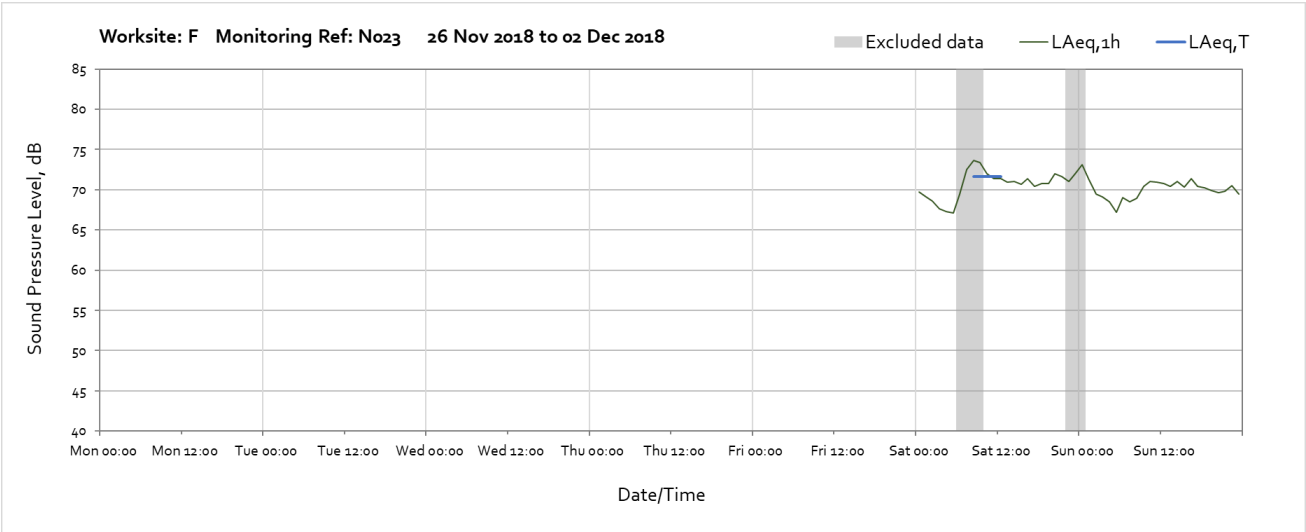
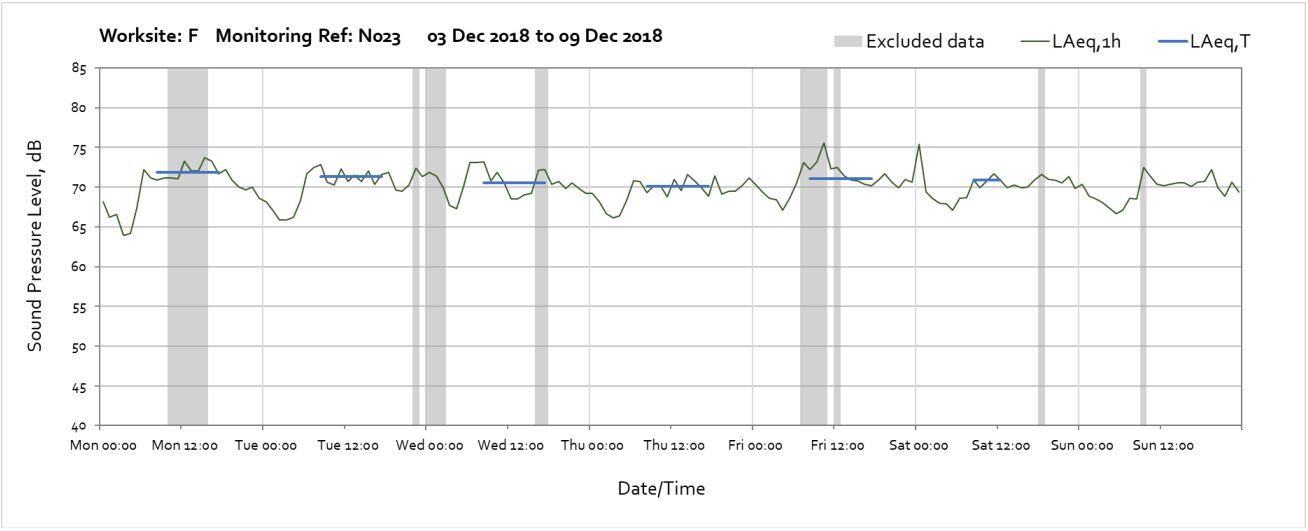




Worksite: F – Monitoring Ref: N023




Worksite: F Monitoring Ref: No23 03 Dec 2018 to 09 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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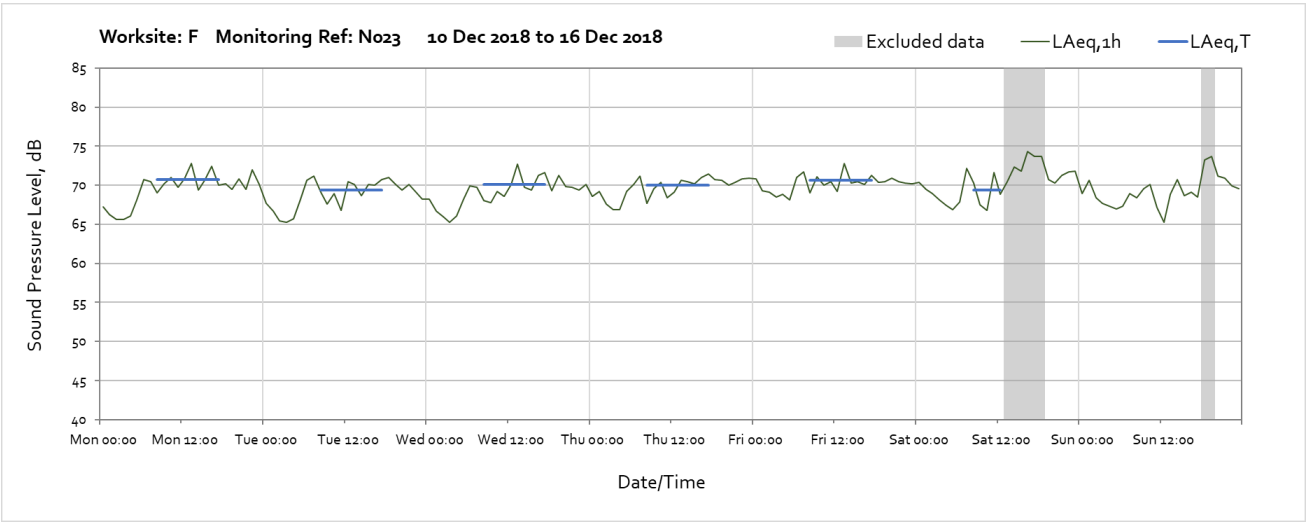
Date/Time


Worksite: F Monitoring Ref: No23 10 Dec 2018 to 16 Dec 2018
Excluded data
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LAeq,T
Sound Pressure Level, dB
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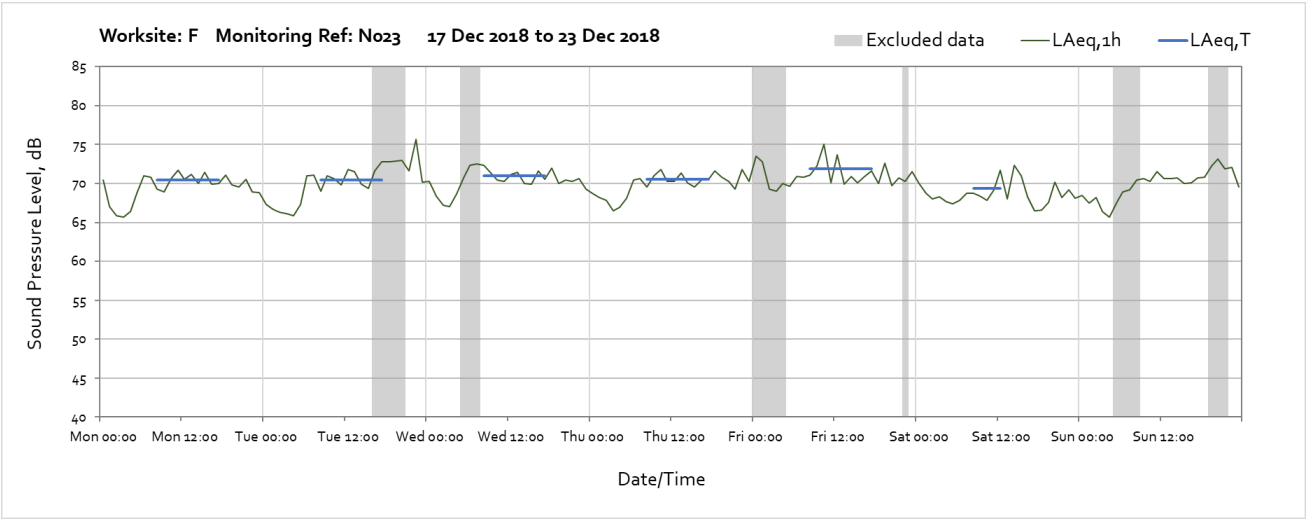
Sun 12:00
Date/Time


Worksite: F Monitoring Ref: No23 17 Dec 2018 to 23 Dec 2018
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
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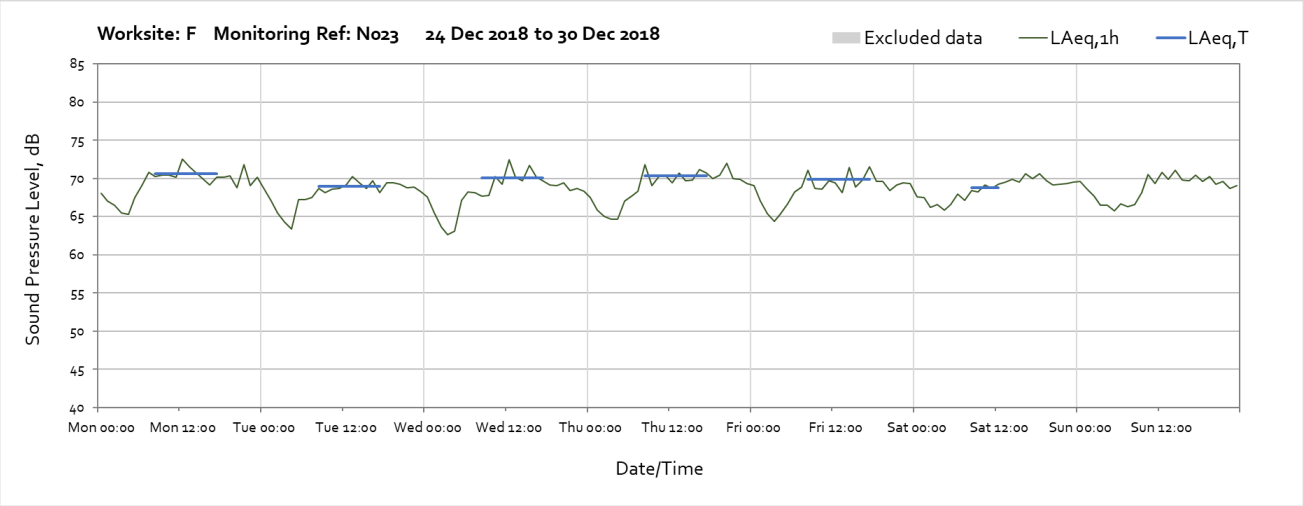
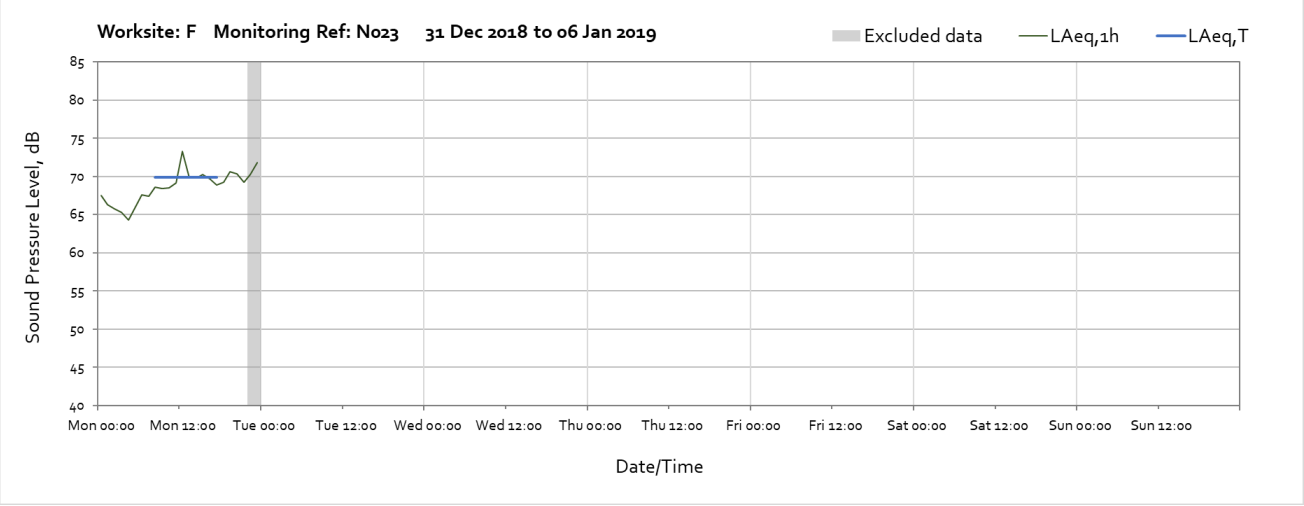
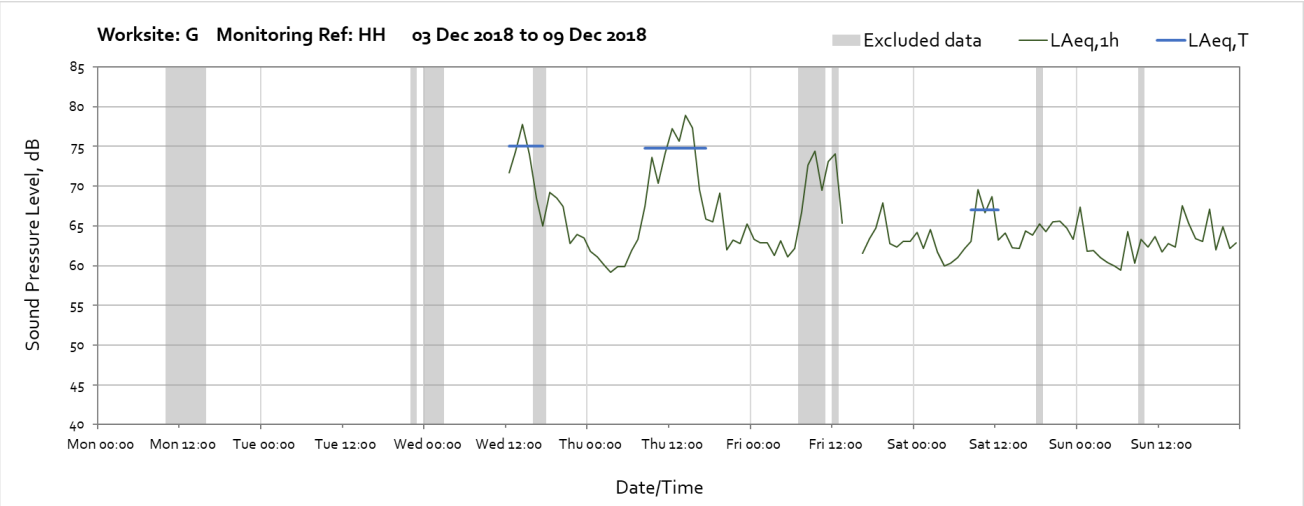
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time



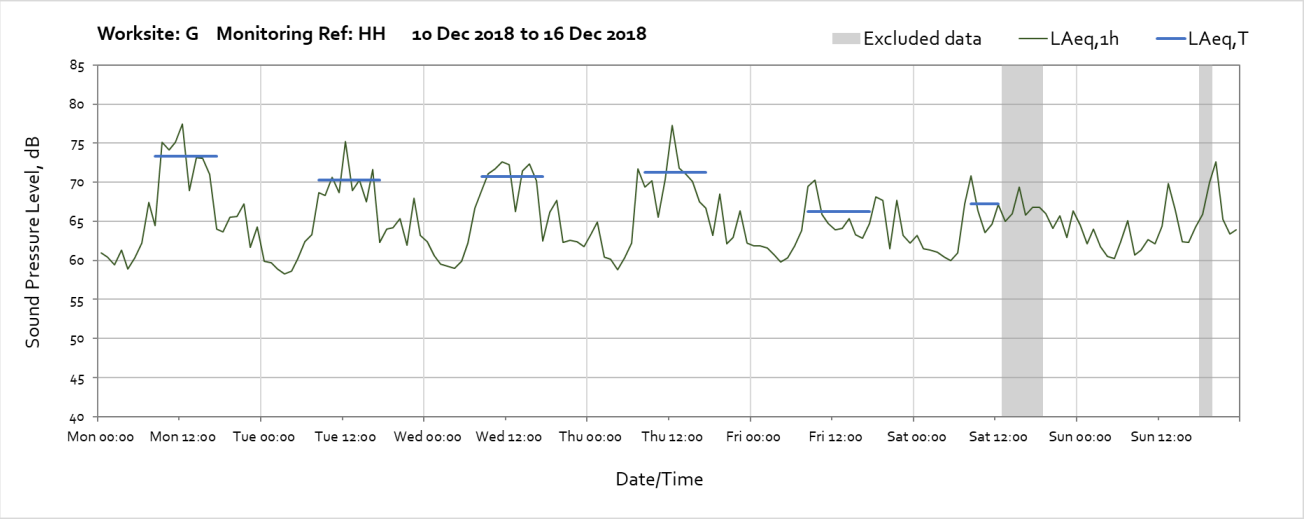


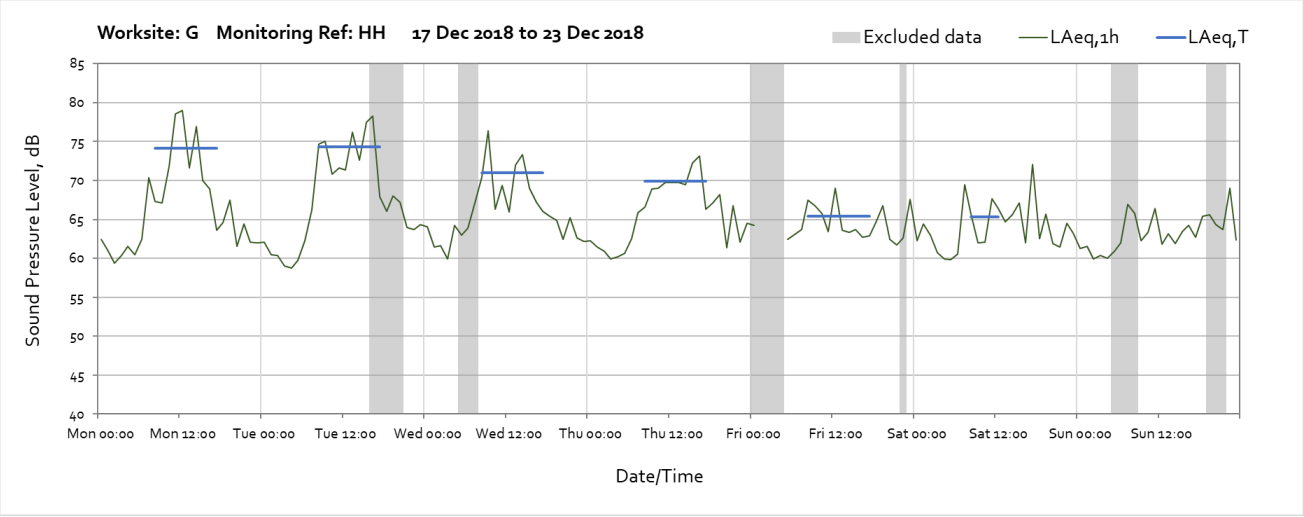
Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: G – Monitoring Ref: HH

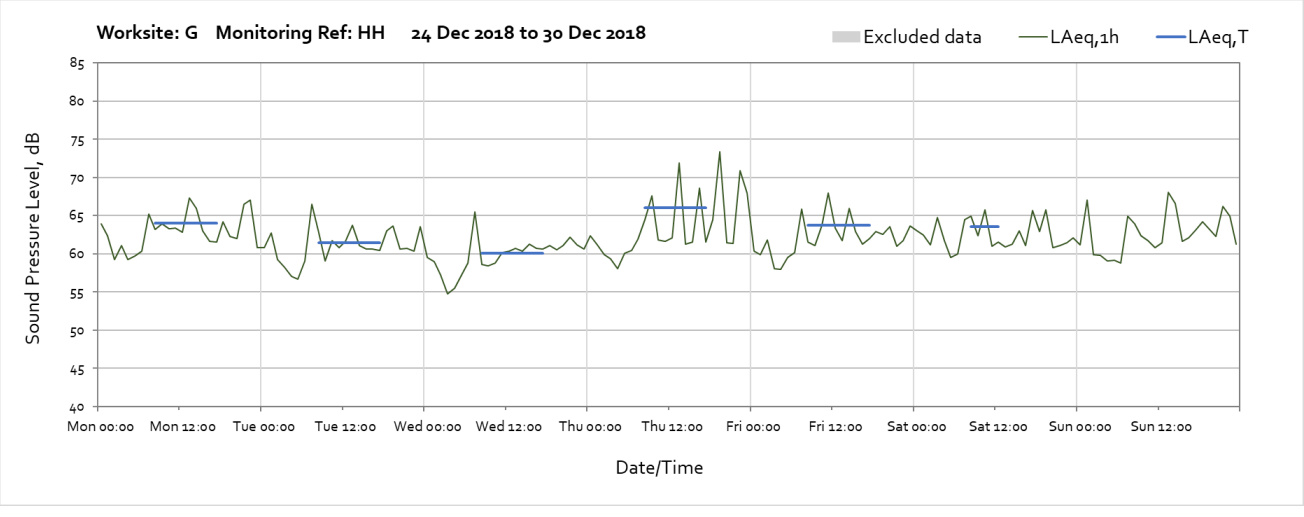


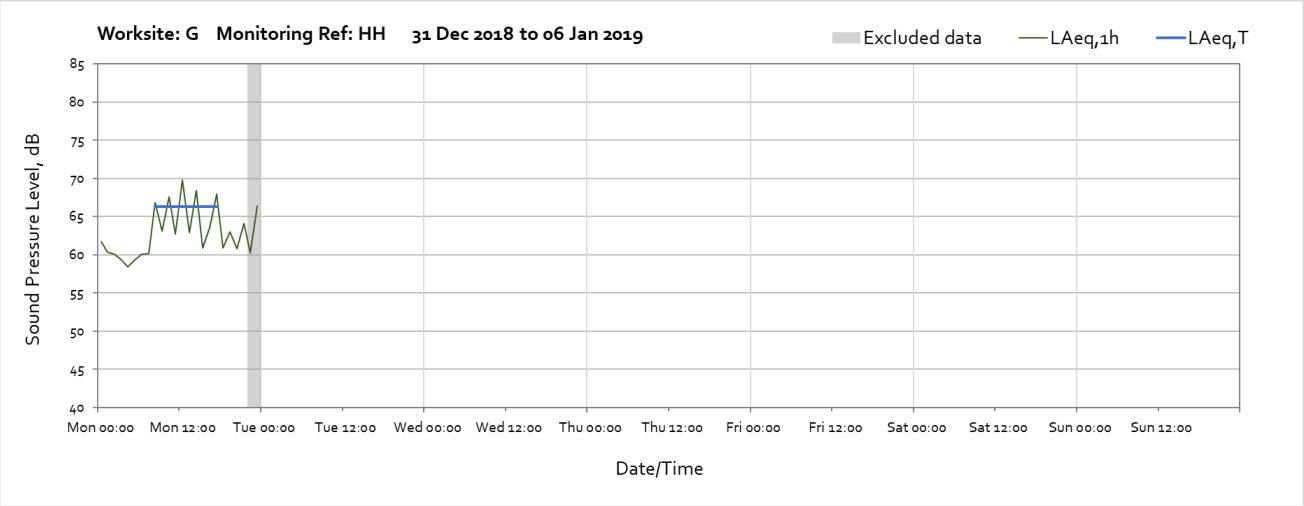
Note – Missing data from beginning of month until 12:00 on Wednesday 5th and between 13:00 and 16:00 on Friday 7th due to a loss of power at the noise monitor.





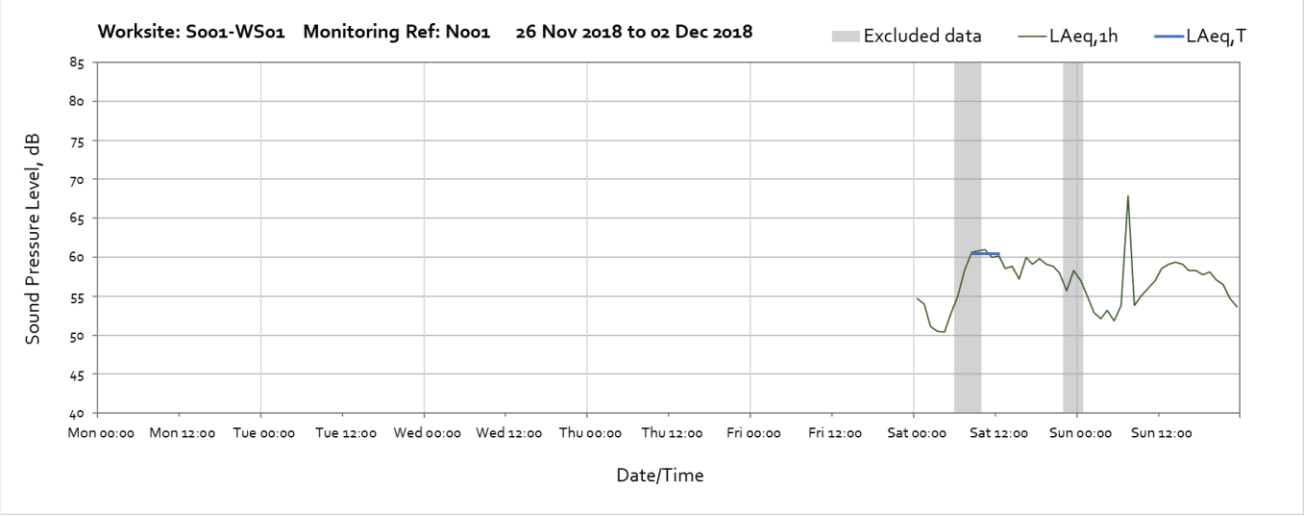
Note – Missing data between 00:00 and 05:00 on Friday 21st due to a loss of power at the noise monitor.

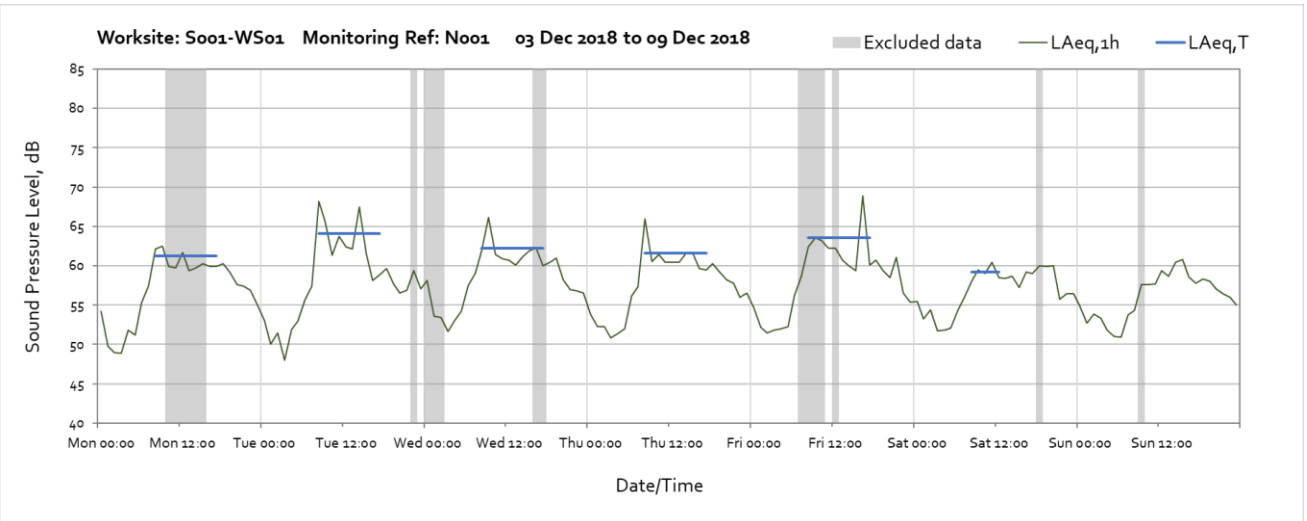


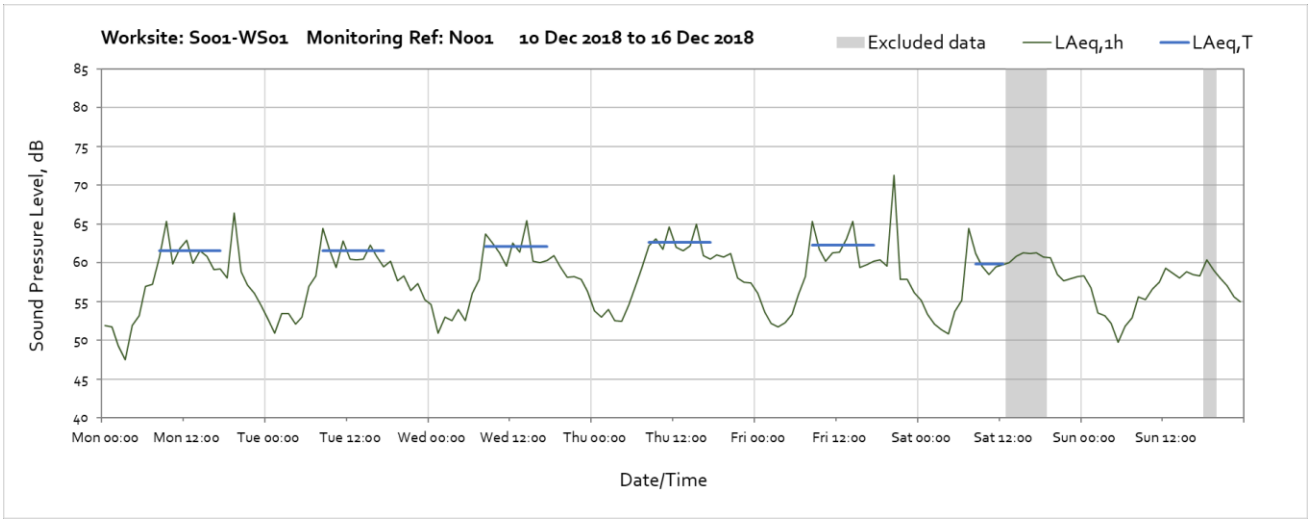


Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: S001-WS01 – Monitoring Ref: N001






Worksite: S001-WS01 Monitoring Ref: N001 10 Dec 2018 to 16 Dec 2018
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
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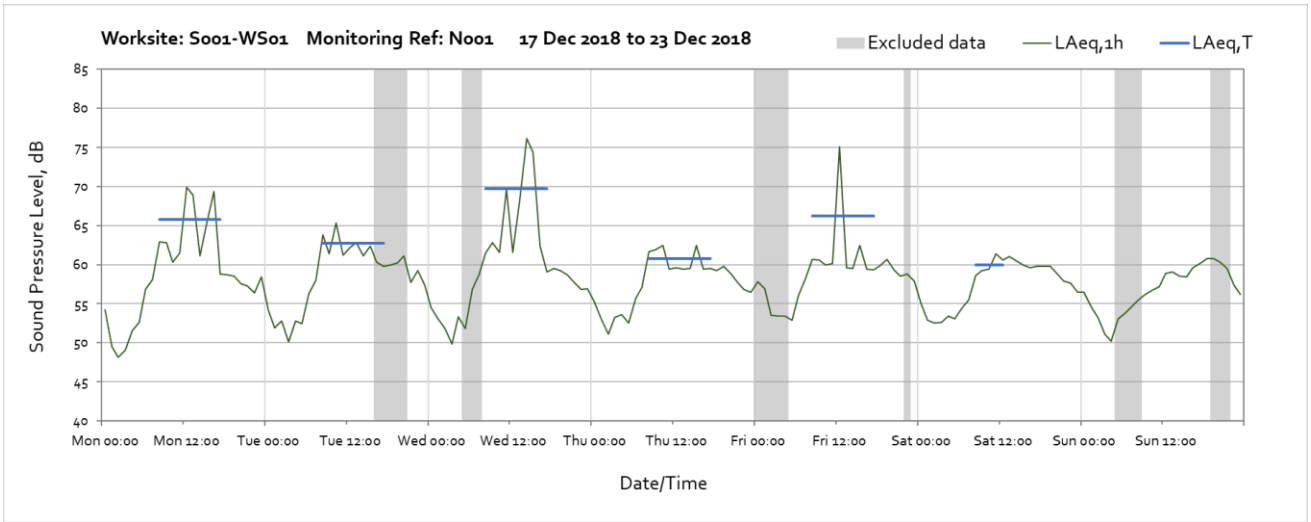
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: S001-WS01 Monitoring Ref: N001 17 Dec 2018 to 23 Dec 2018
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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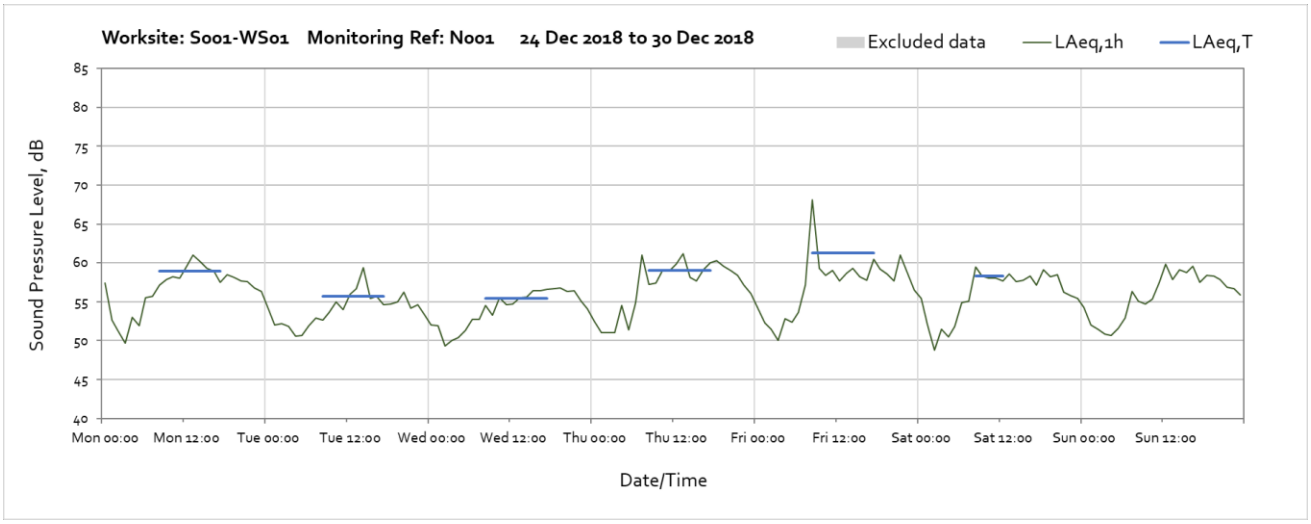
Sun 12:00
Date/Time


Worksite: S001-WS01 Monitoring Ref: N001 24 Dec 2018 to 30 Dec 2018
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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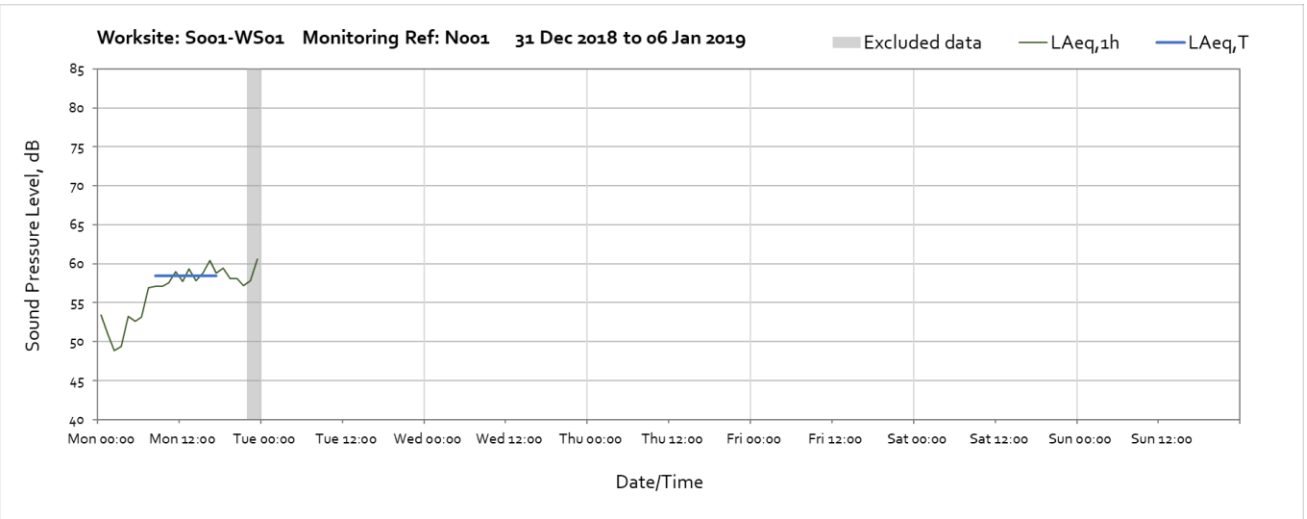
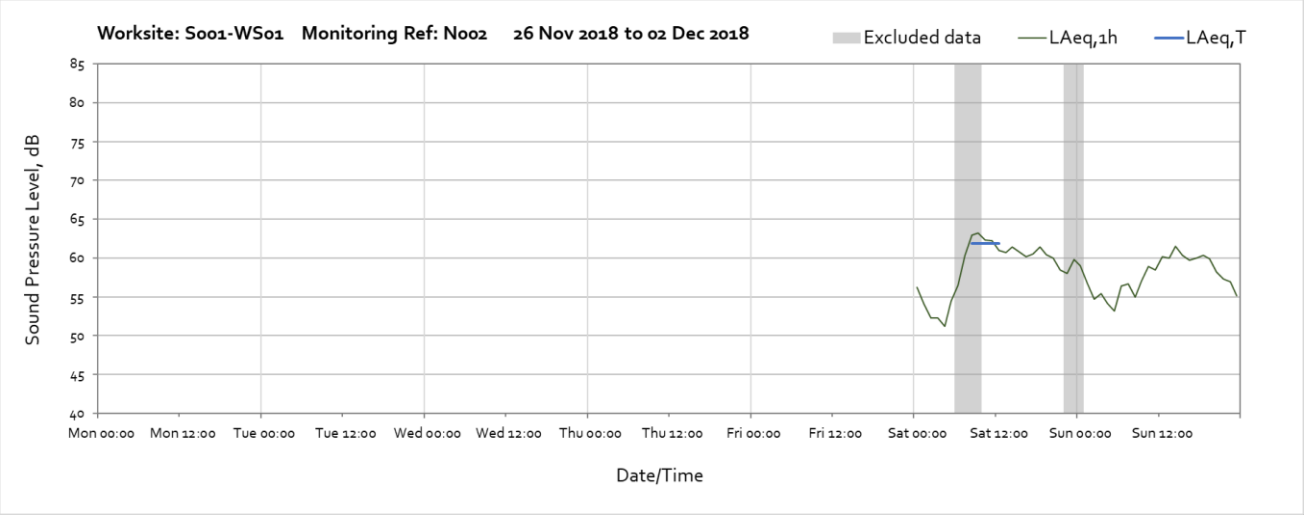
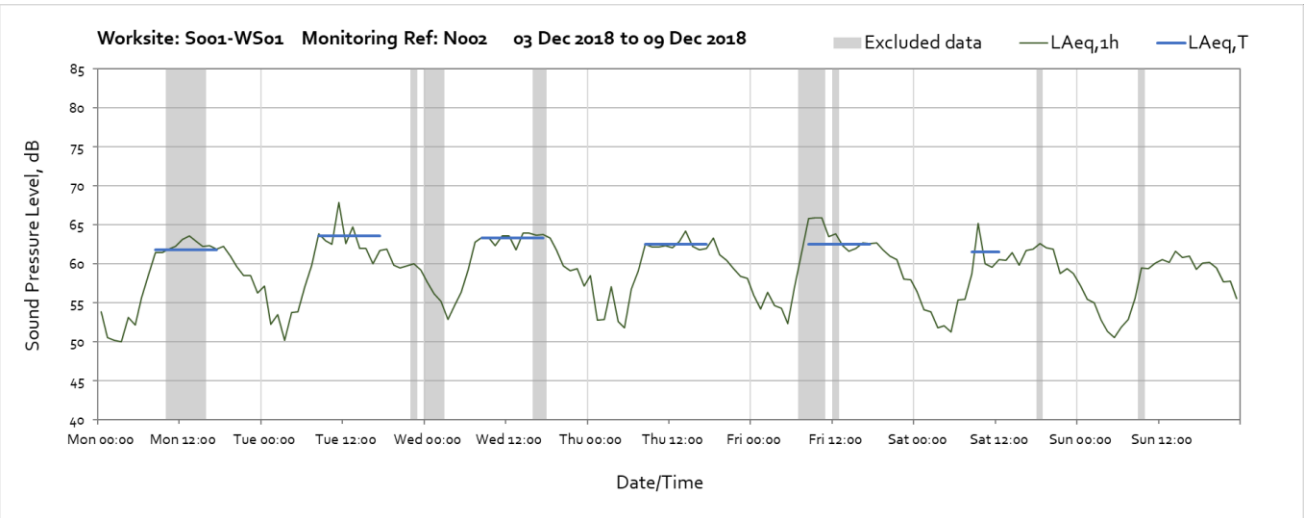
Date/Time

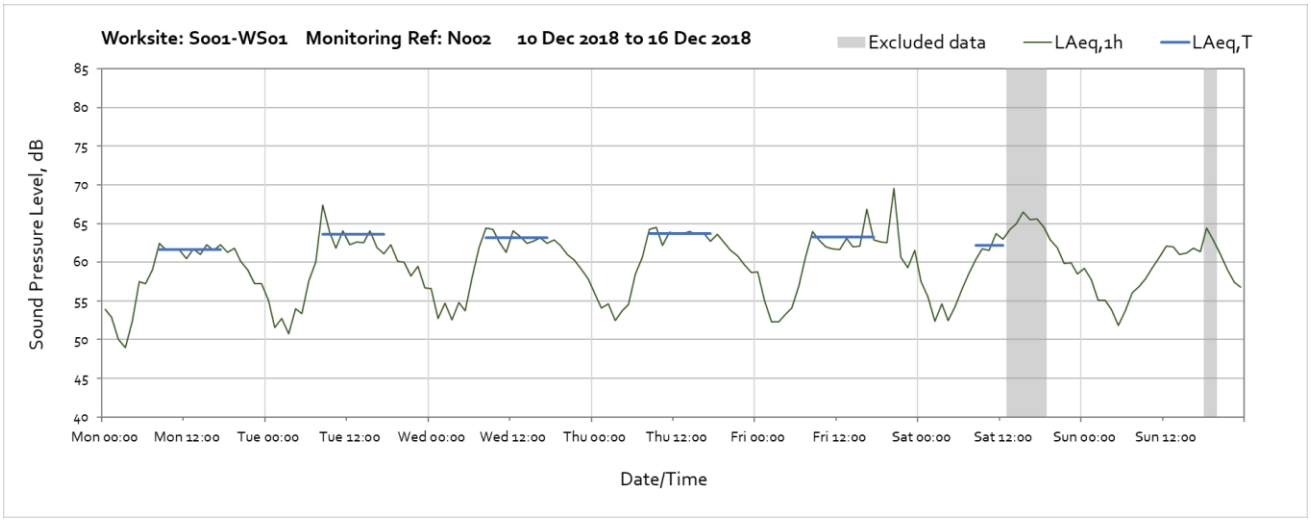


Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: S001-WS01 – Monitoring Ref: N002






Worksite: S001-WS01 Monitoring Ref: N002 10 Dec 2018 to 16 Dec 2018
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 00:00
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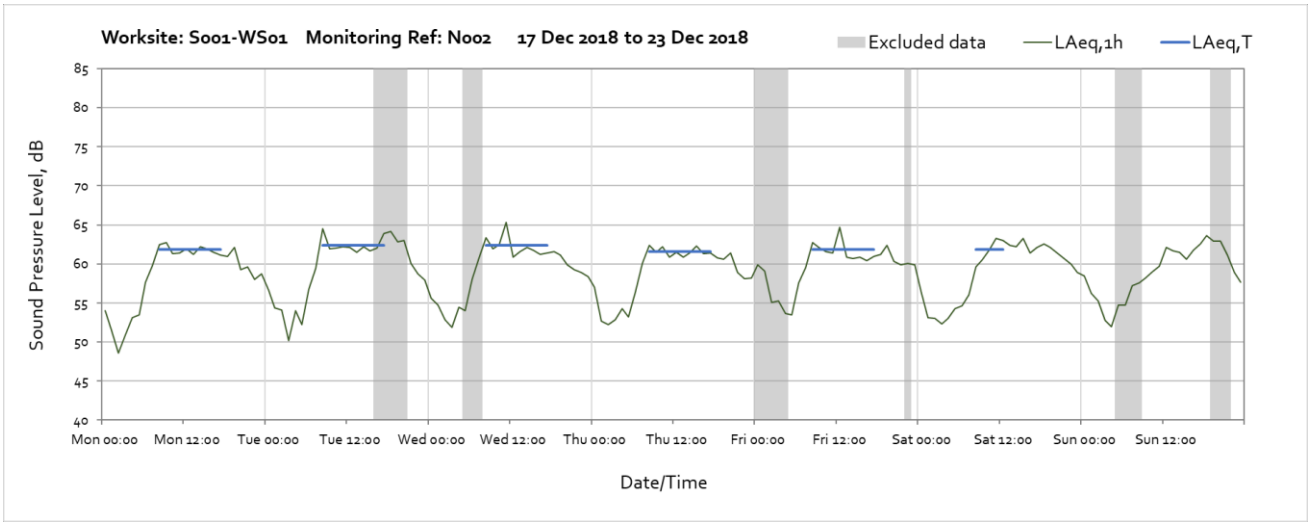
Date/Time


Worksite: S001-WS01 Monitoring Ref: N002 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
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45
40
Mon 00:00
Mon 12:00
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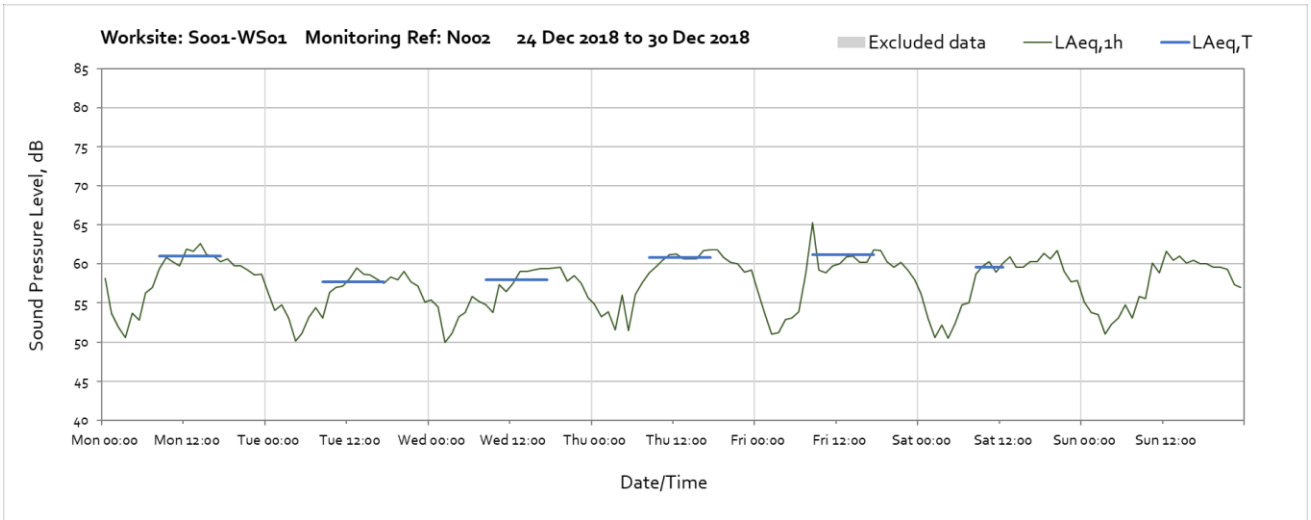
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: S001-WS01 Monitoring Ref: N002 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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65
60
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45
40
Mon 00:00
Mon 12:00
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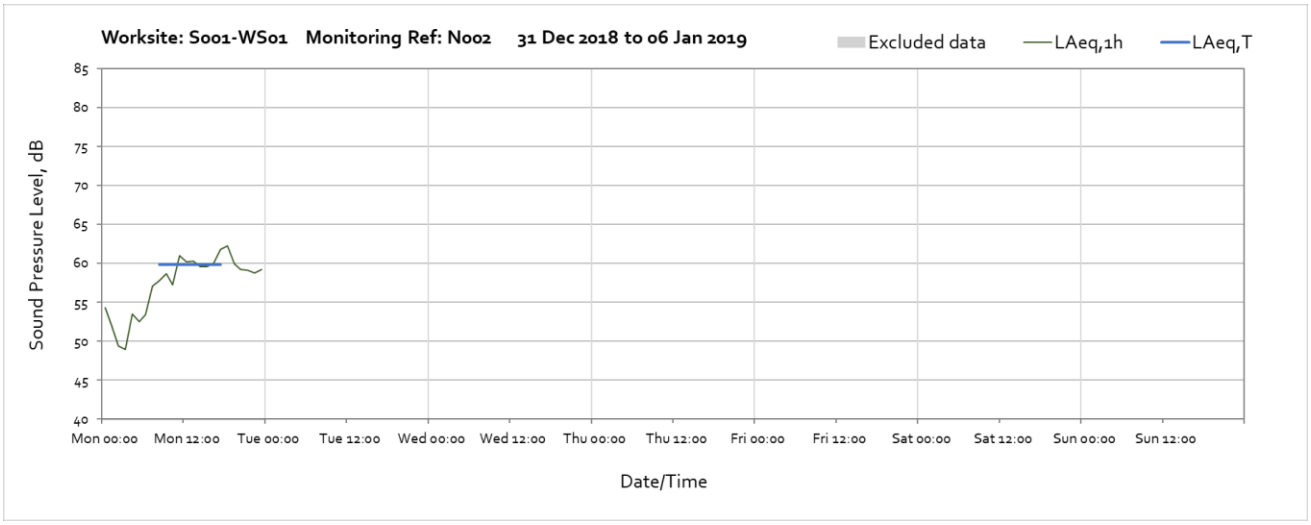
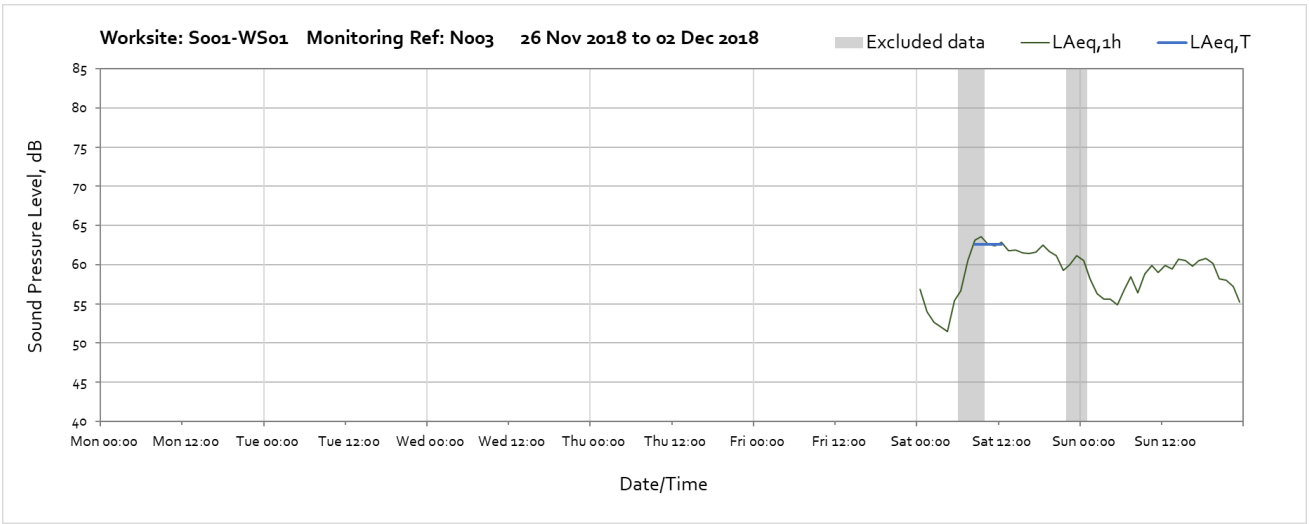
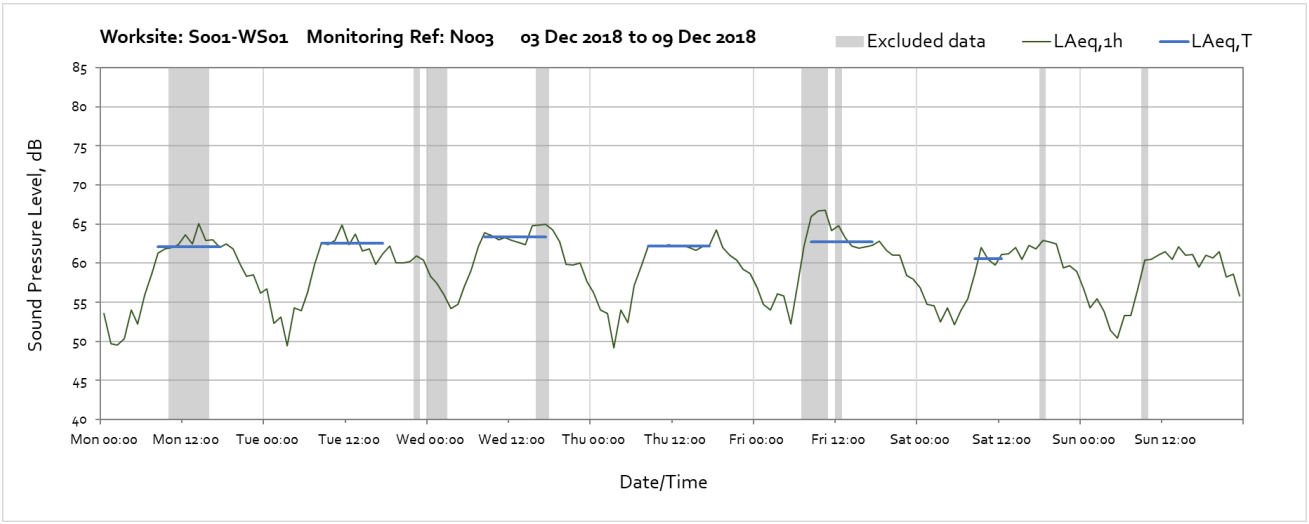
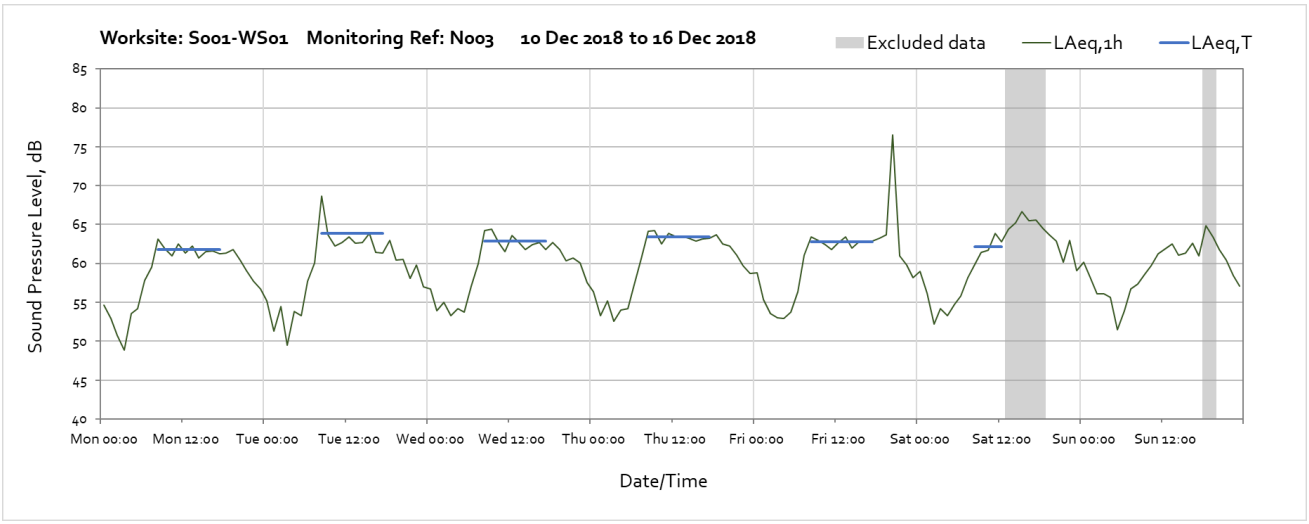
Sun 12:00
Date/Time



Worksite: S001-WS01 – Monitoring Ref: N003






Worksite: S001-WS01 Monitoring Ref: N003 10 Dec 2018 to 16 Dec 2018
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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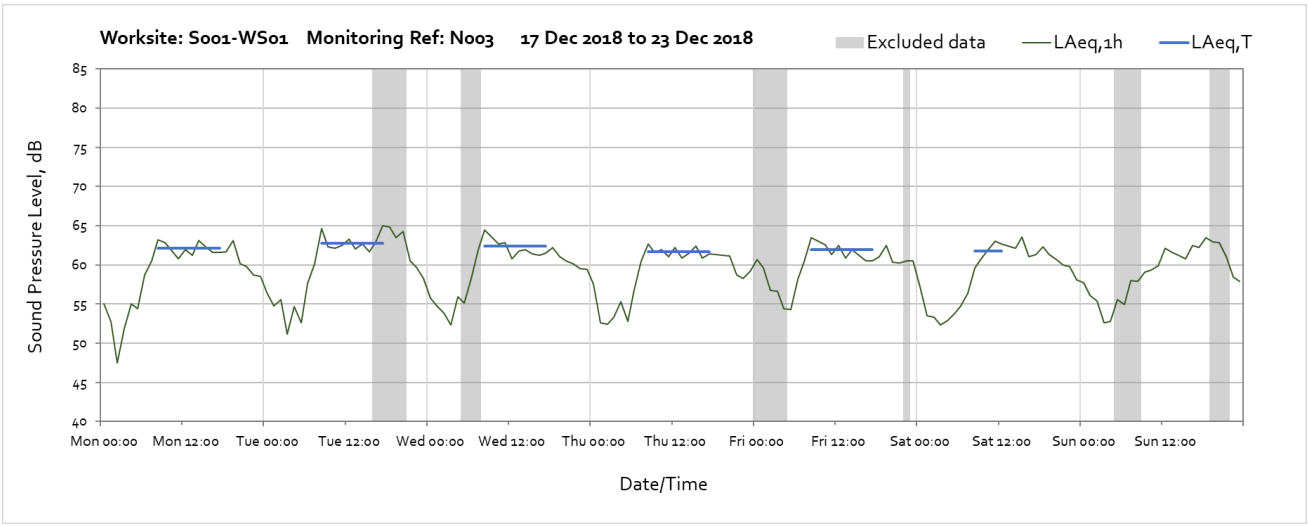
Sun 12:00
Date/Time


Worksite: S001-WS01 Monitoring Ref: N003 17 Dec 2018 to 23 Dec 2018
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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Tue 12:00
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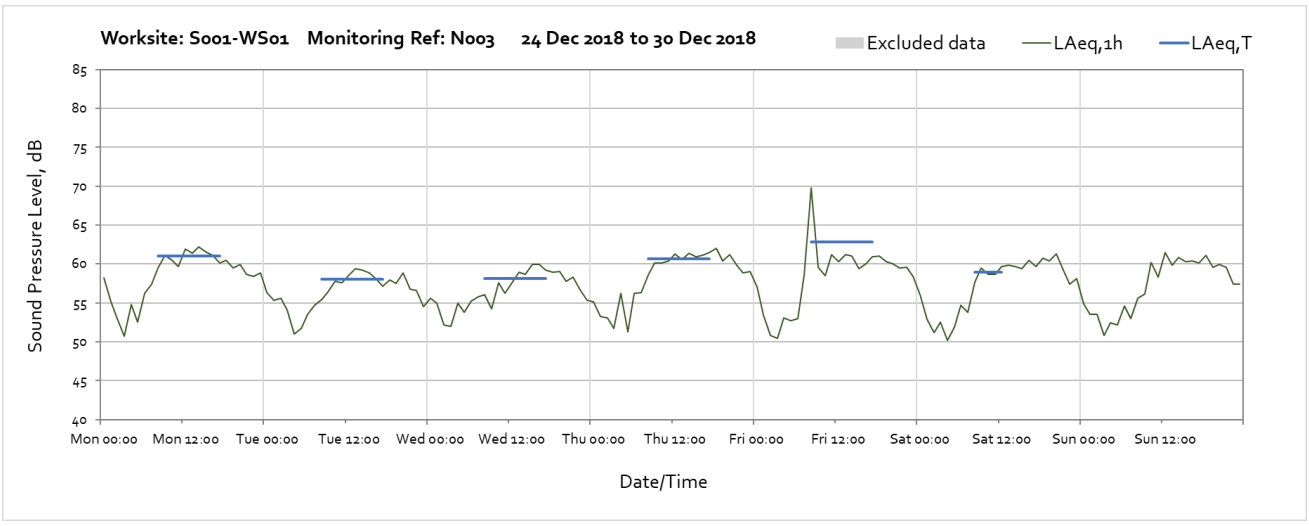
Sun 12:00
Date/Time


Worksite: S001-WS01 Monitoring Ref: N003 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
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40
Mon 00:00
Mon 12:00
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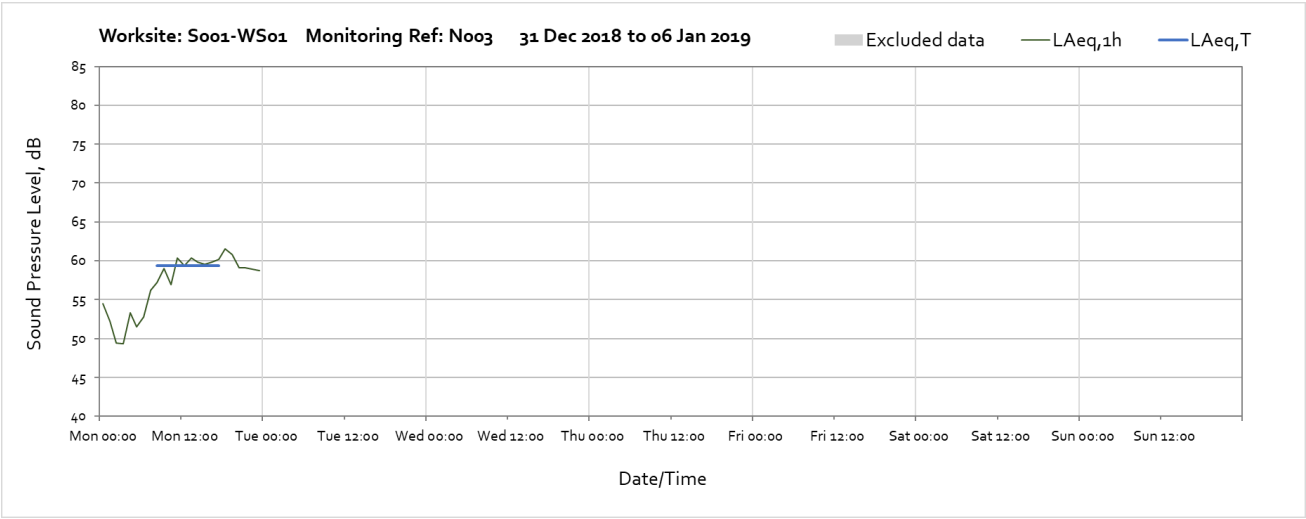
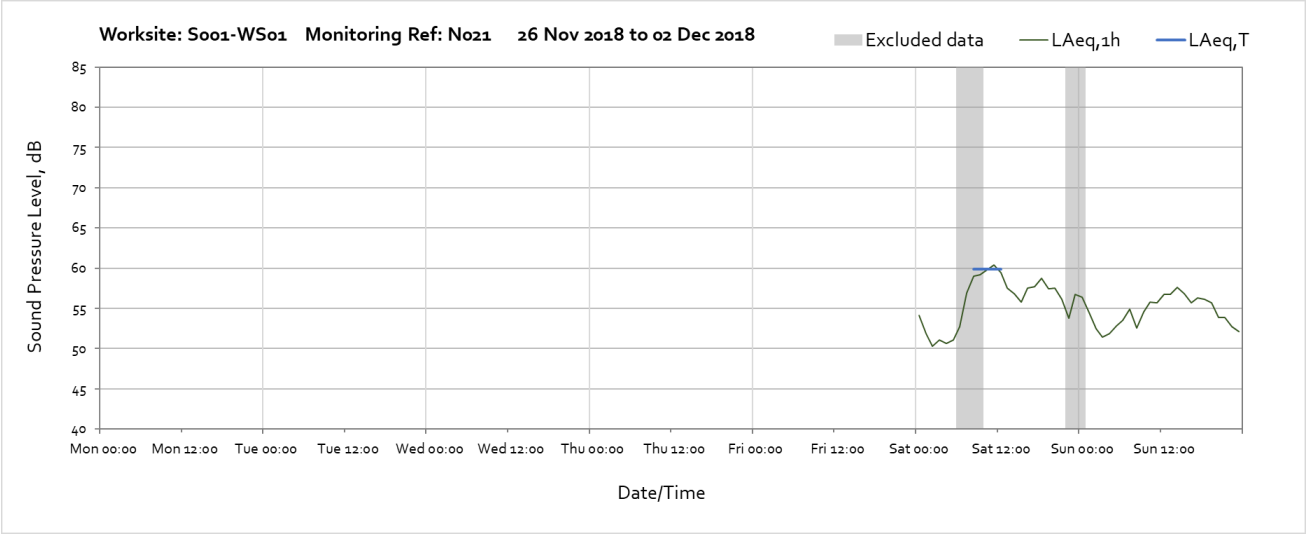
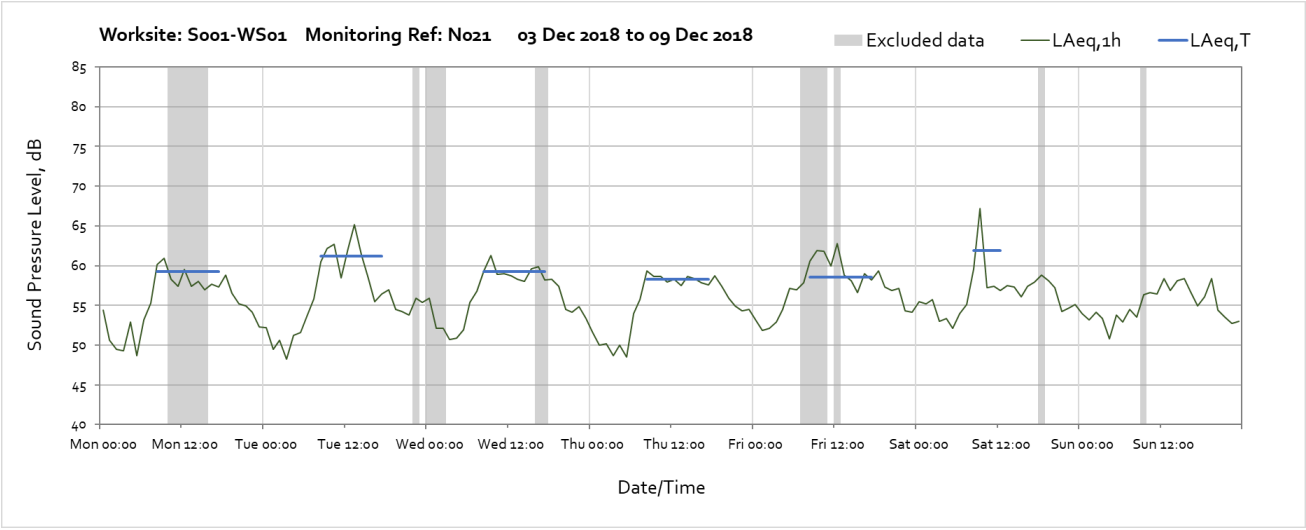
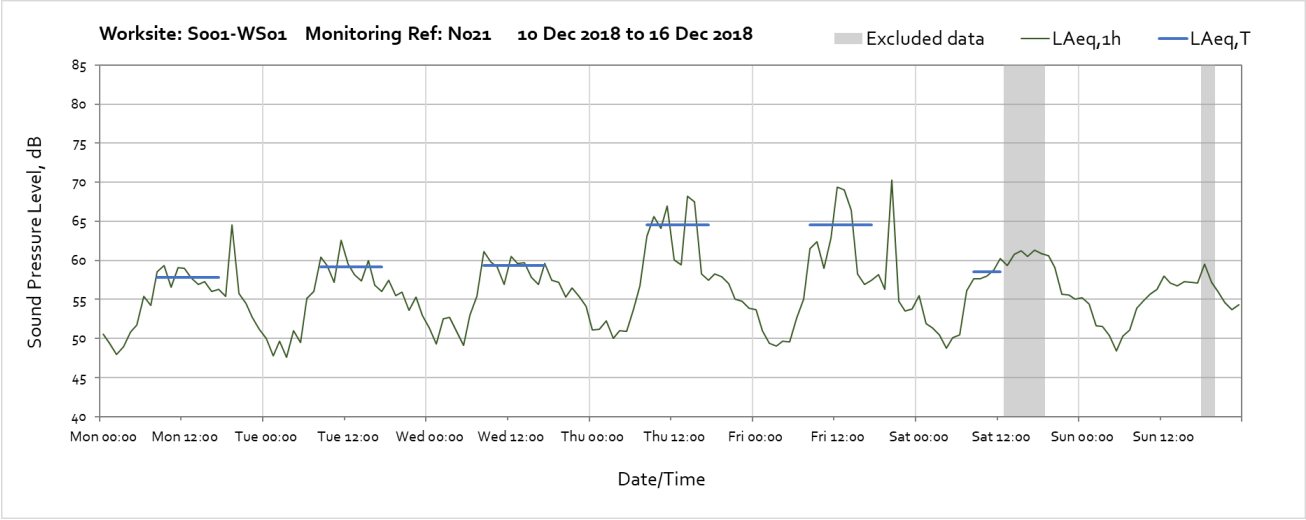
Sun 12:00
Date/Time



Worksite: S001-WS01 – Monitoring Ref: N021






Worksite: S001-WS01 Monitoring Ref: N021 10 Dec 2018 to 16 Dec 2018
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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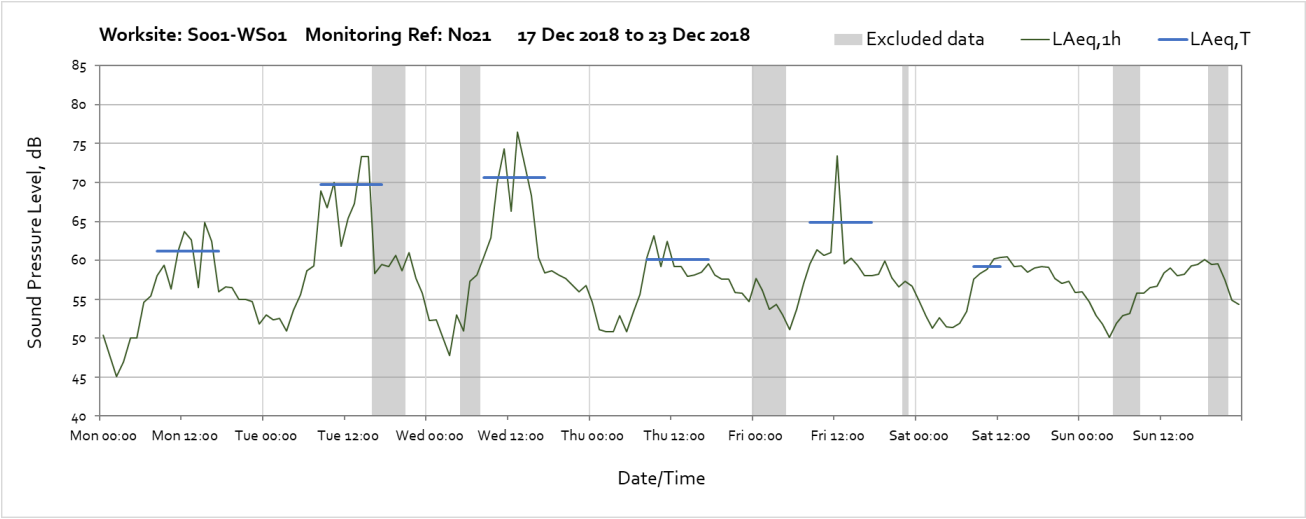
Sun 00:00
Sun 12:00
Date/Time


Worksite: S001-WS01 Monitoring Ref: N021 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
60
55
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45
40
Mon 00:00
Mon 12:00
Tue 00:00
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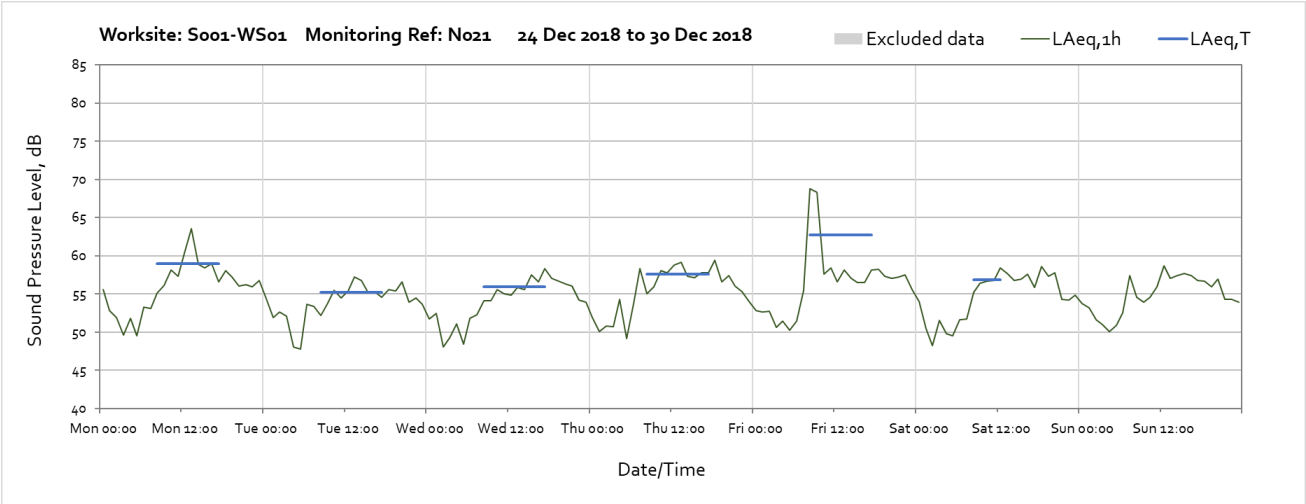
Sun 12:00
Date/Time


Worksite: S001-WS01 Monitoring Ref: N021 24 Dec 2018 to 30 Dec 2018
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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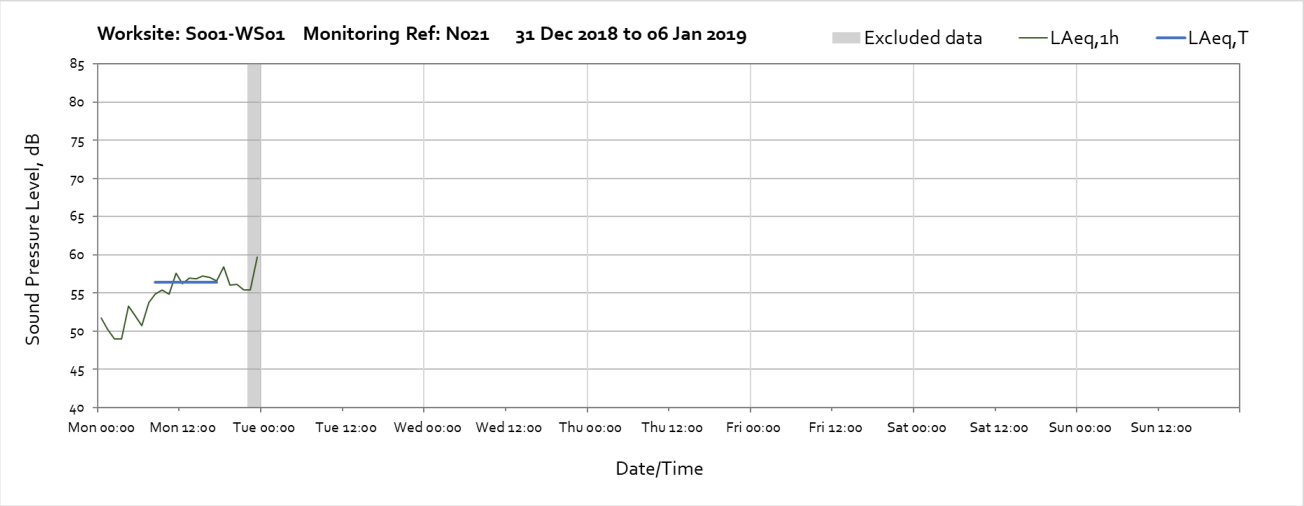
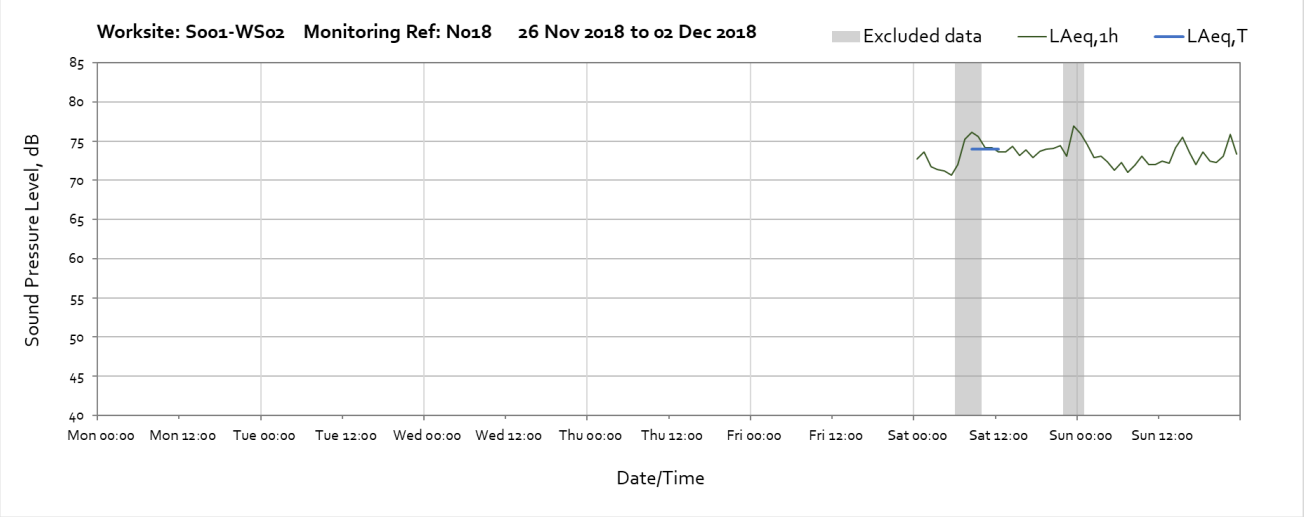
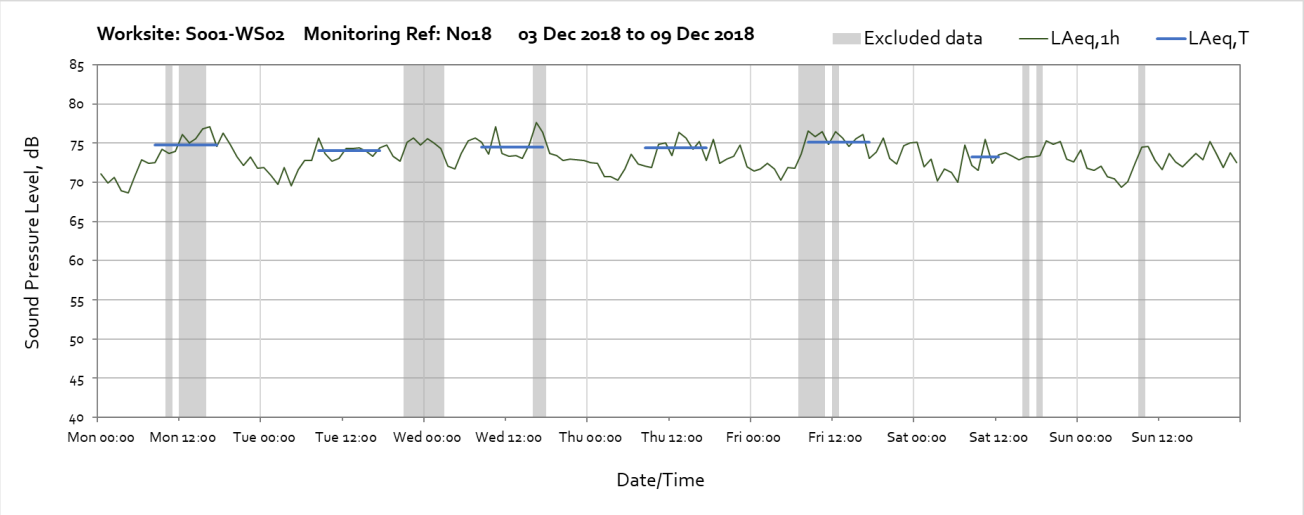
Sun 12:00
Date/Time

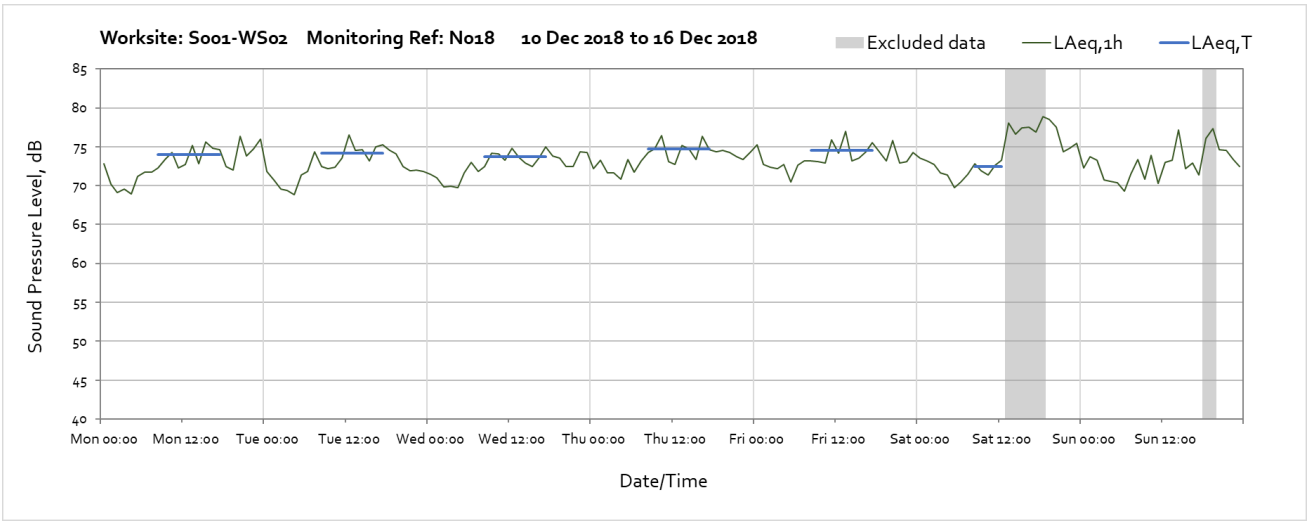


Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: S001-WS02 – Monitoring Ref: N018






Worksite: S001-WS02 Monitoring Ref: N018 10 Dec 2018 to 16 Dec 2018
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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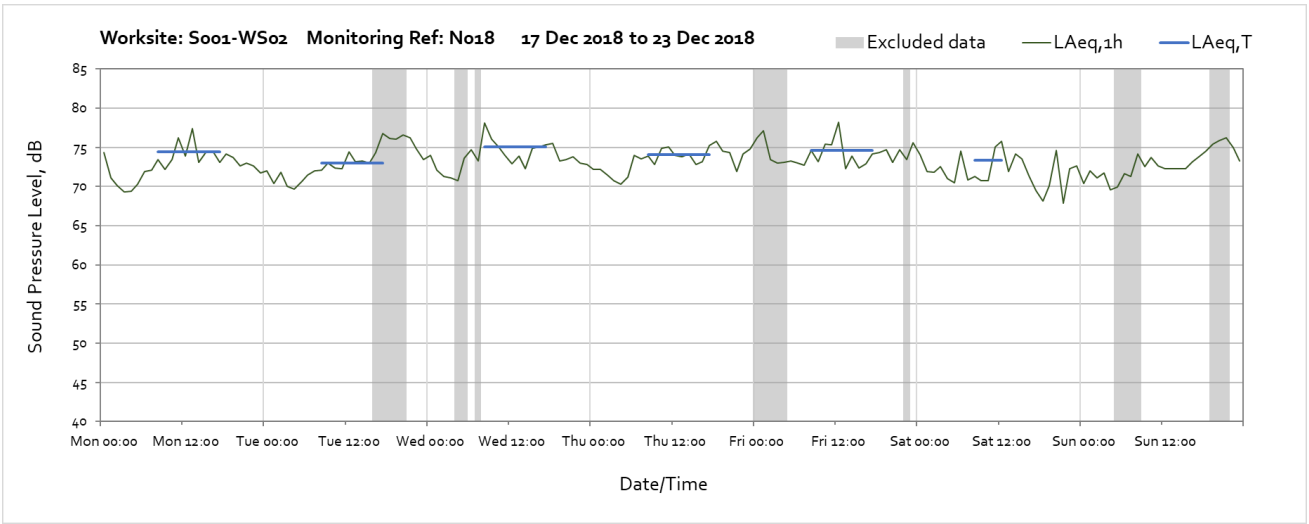
Date/Time


Worksite: S001-WS02 Monitoring Ref: N018 17 Dec 2018 to 23 Dec 2018
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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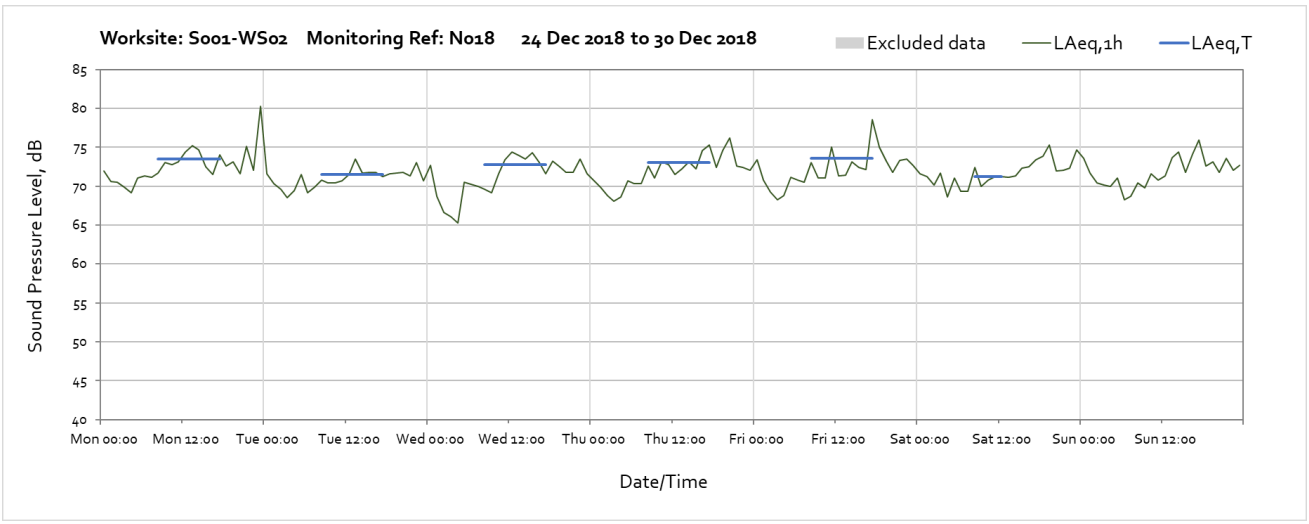
Sun 00:00
Sun 12:00
Date/Time


Worksite: S001-WS02 Monitoring Ref: N018 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
65
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Mon 00:00
Mon 12:00
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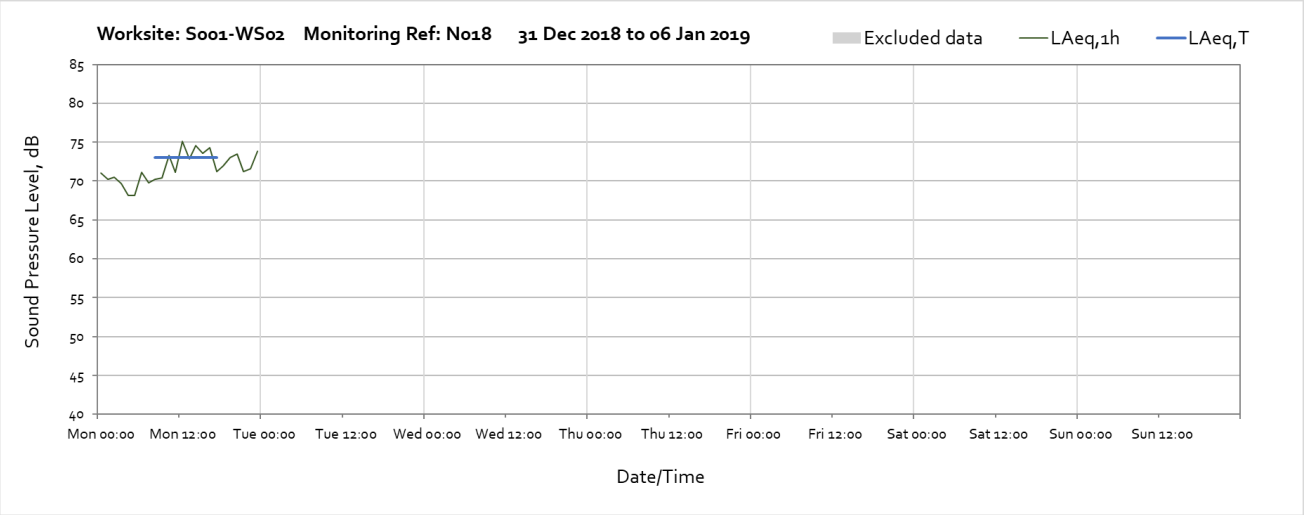
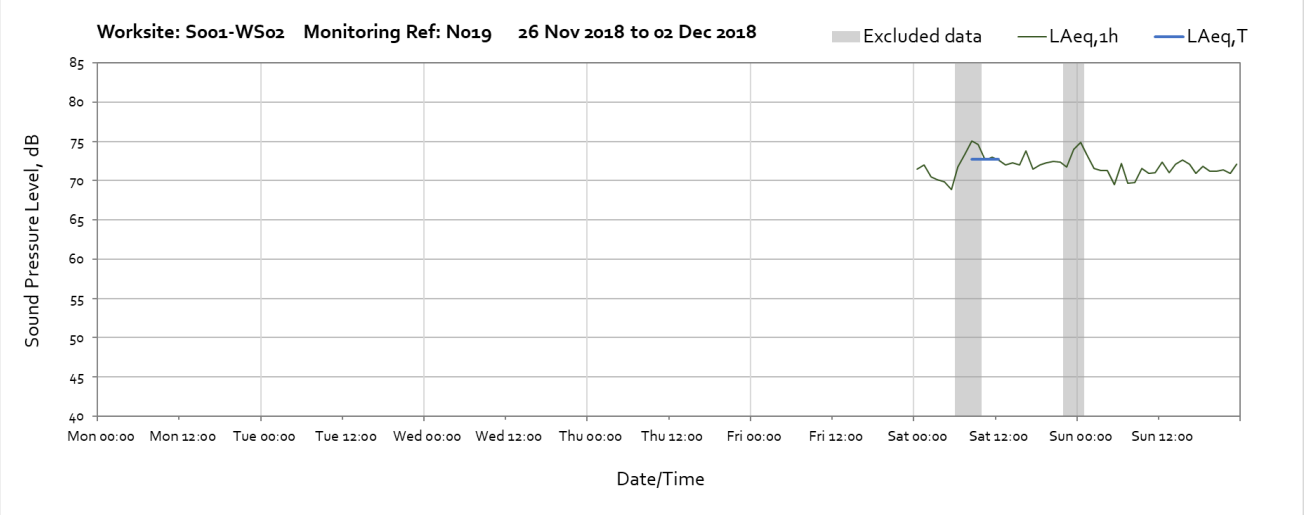
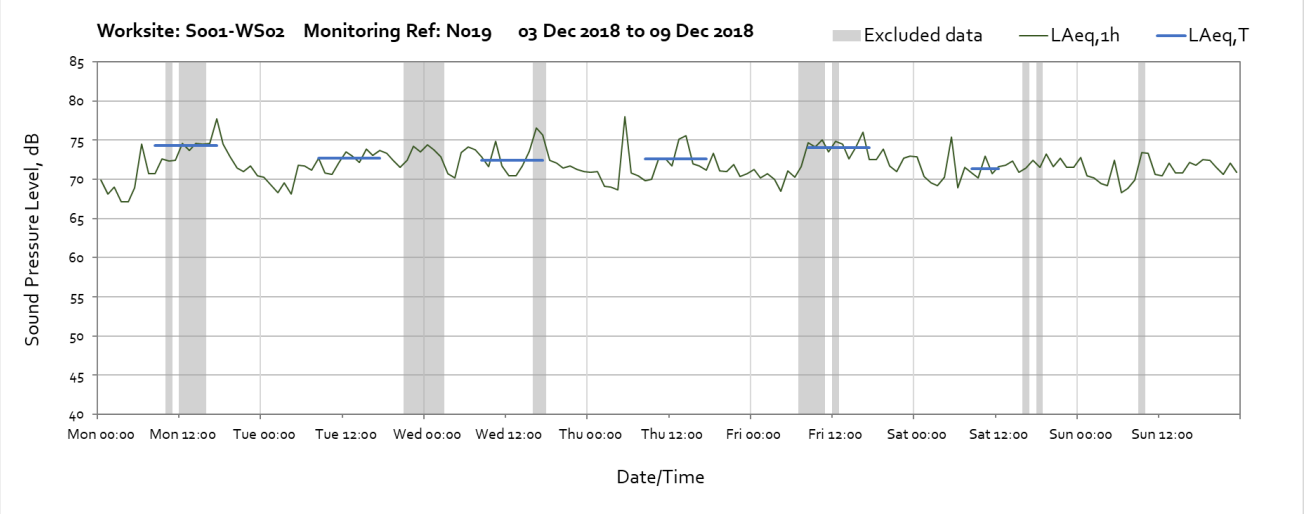
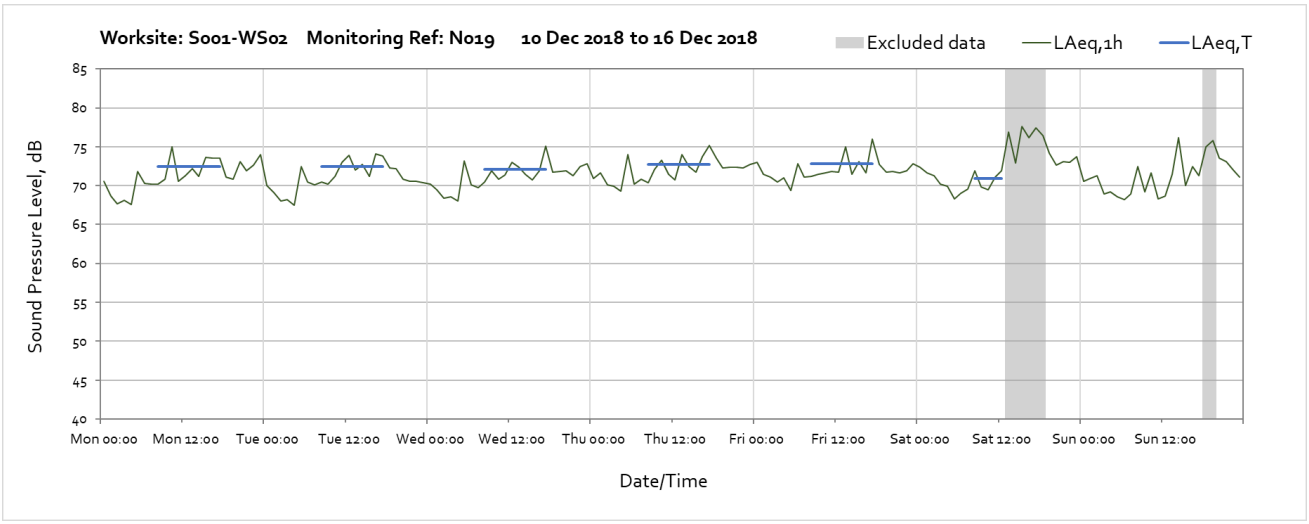
Sun 12:00
Date/Time



Worksite: S001-WS02 – Monitoring Ref: N019






Worksite: S001-WS02 Monitoring Ref: N019 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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55
50
45
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Mon 00:00
Mon 12:00
Tue 00:00
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Sat 00:00
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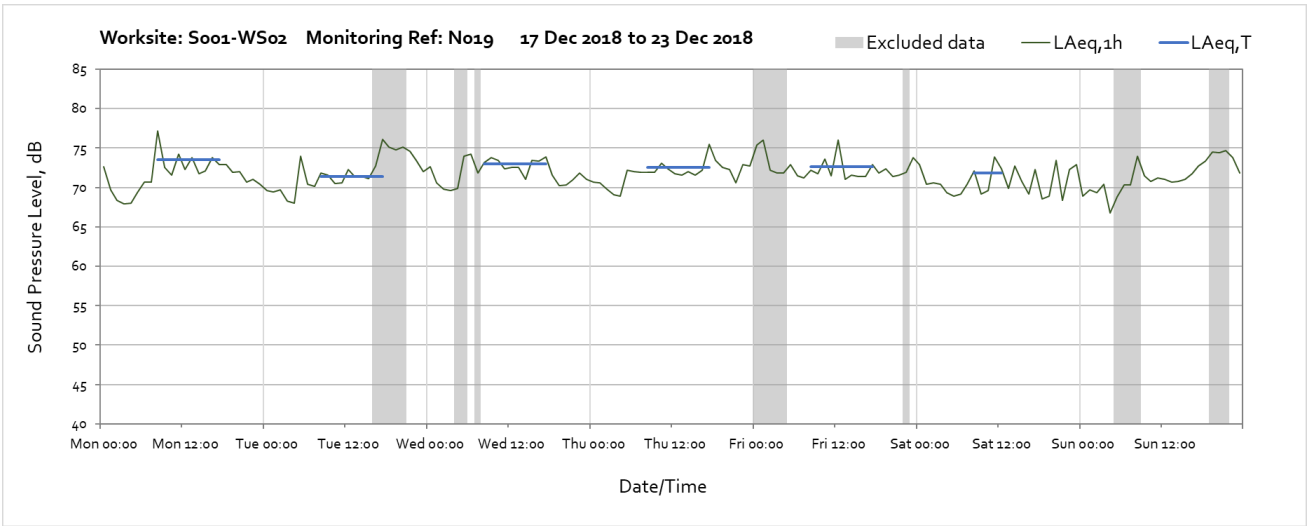
Sun 00:00
Sun 12:00
Date/Time


Worksite: S001-WS02 Monitoring Ref: N019 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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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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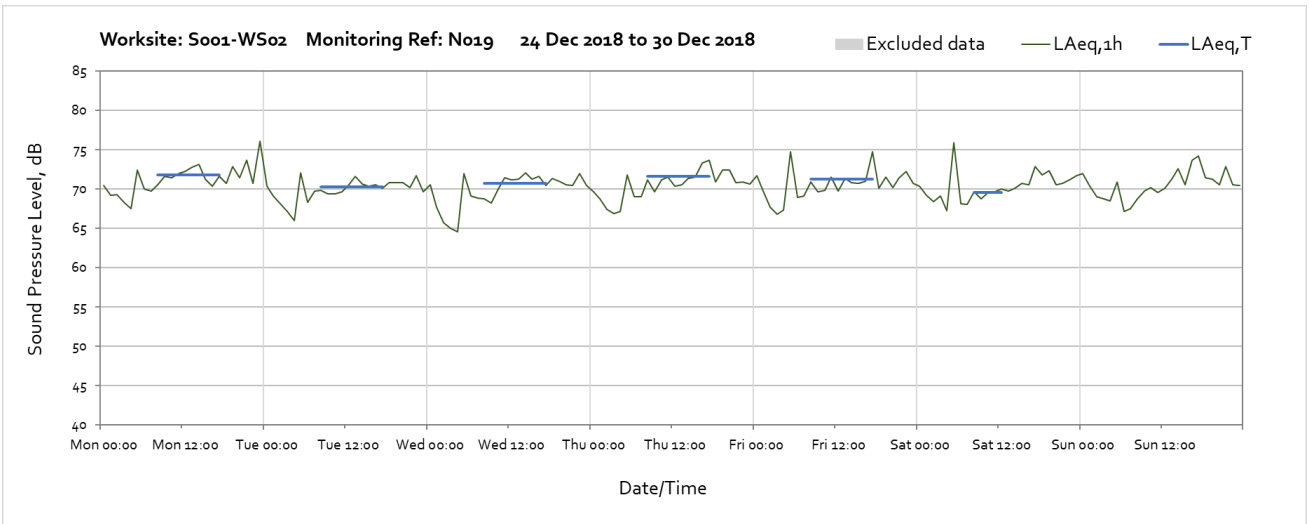
Sun 00:00
Sun 12:00
Date/Time


Worksite: S001-WS02 Monitoring Ref: N019 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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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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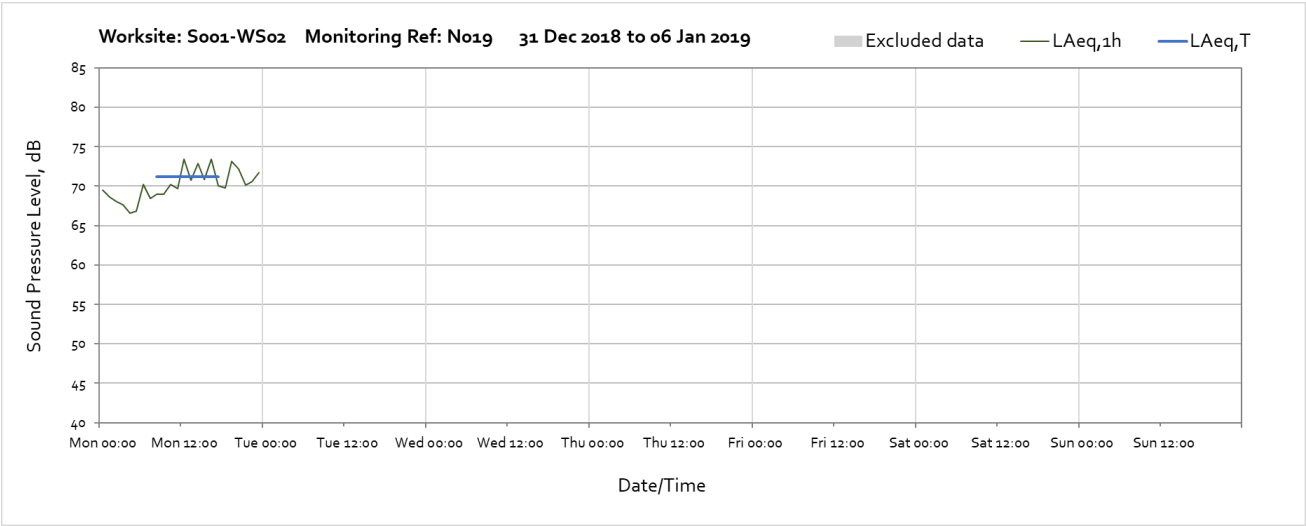
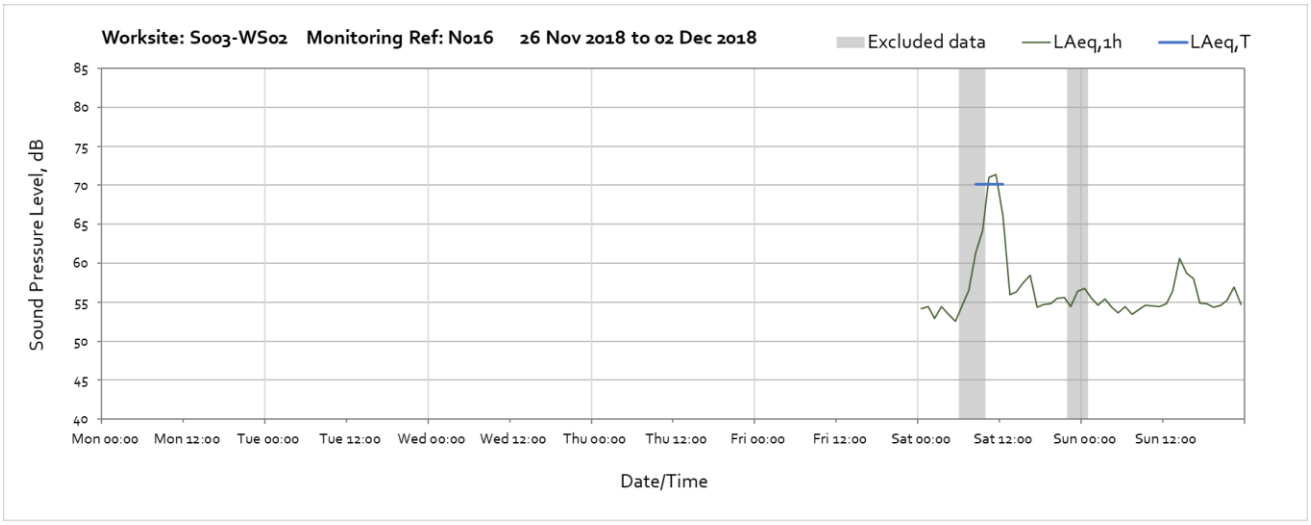
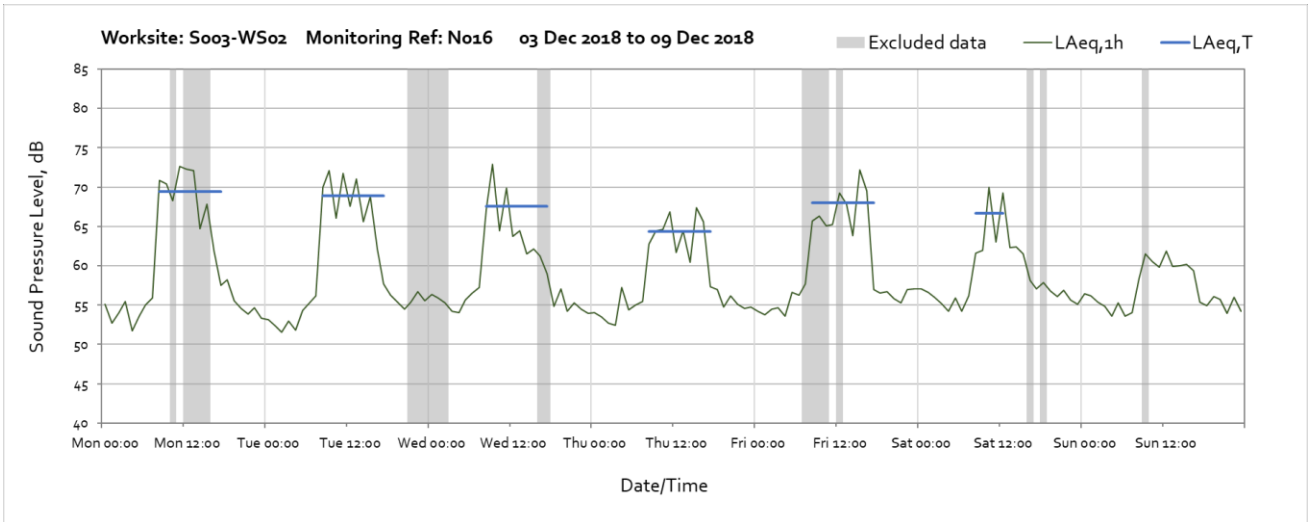
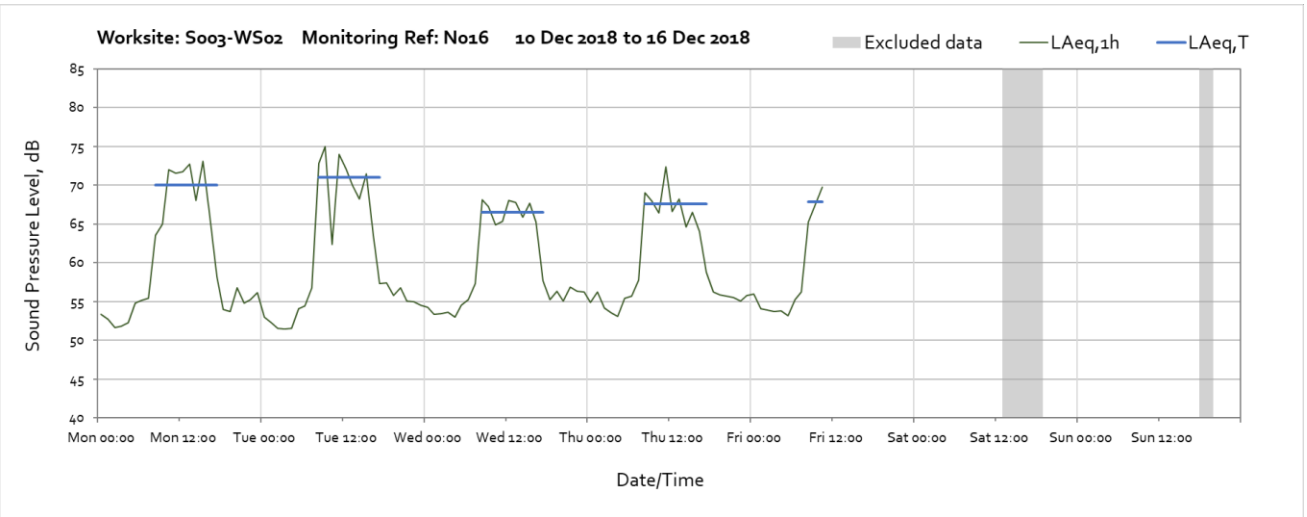
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time



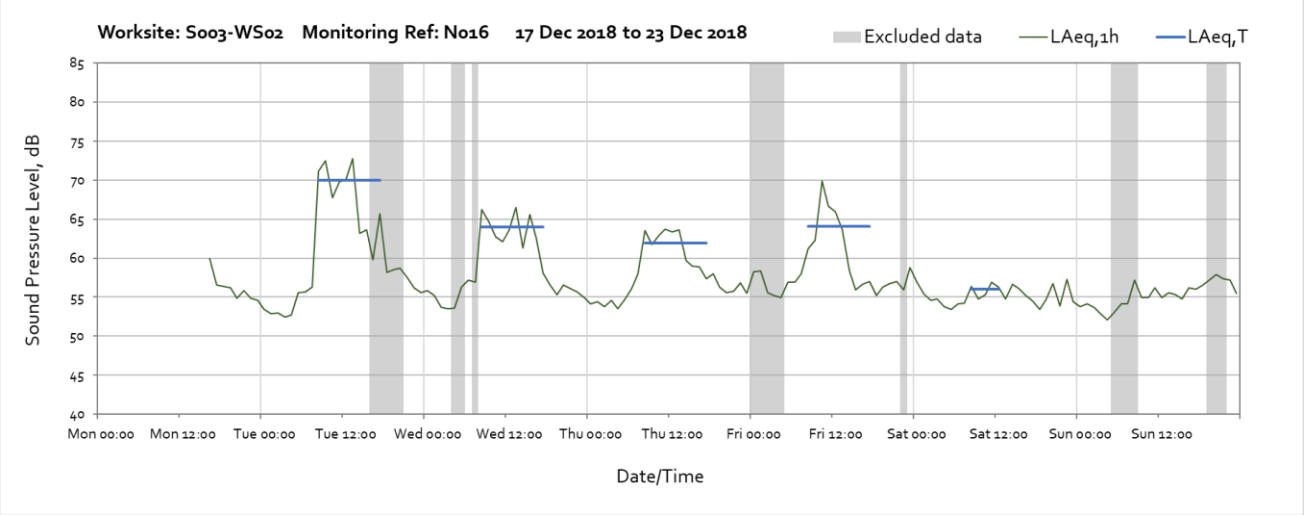
Worksite: S003-WS02 – Monitoring Ref: N016



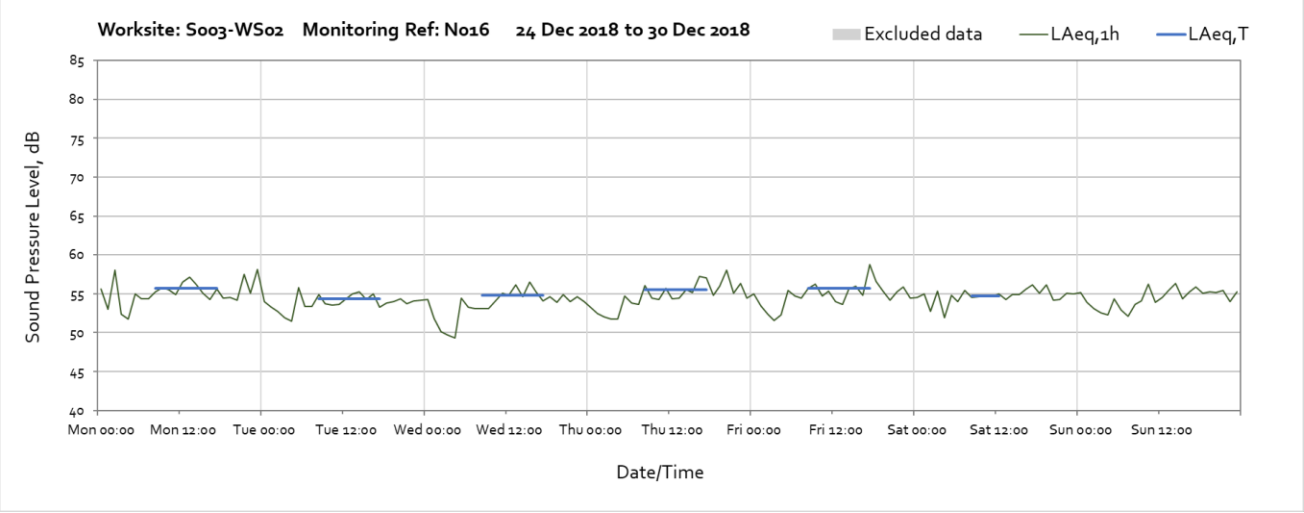


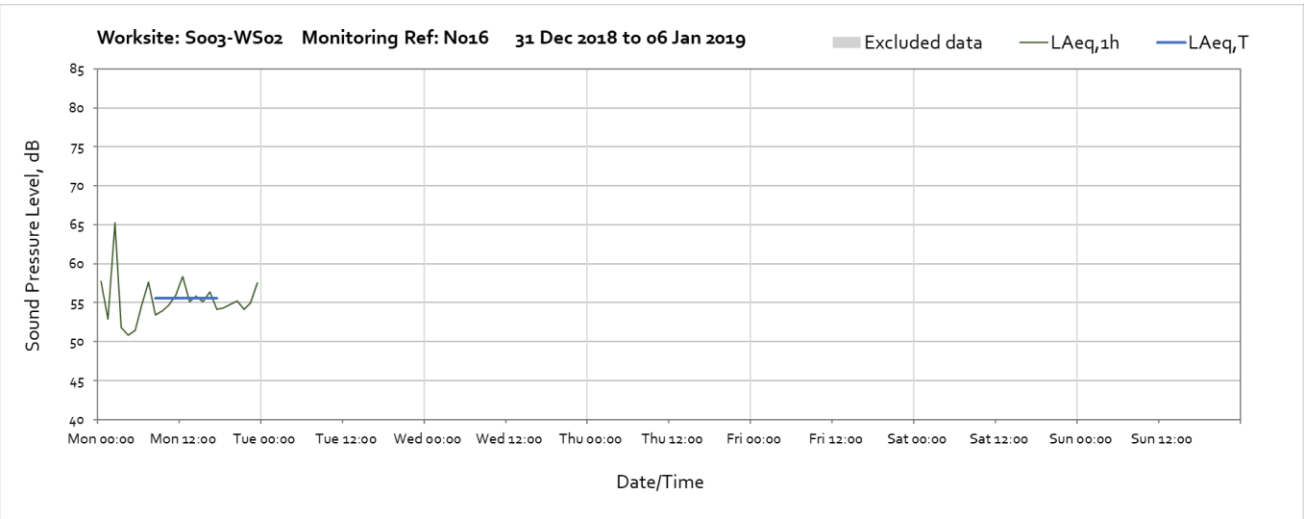


Note – Missing data between 10:00 on Friday 14th and 16:00 on Monday 17th due to a loss of power at the noise monitor.

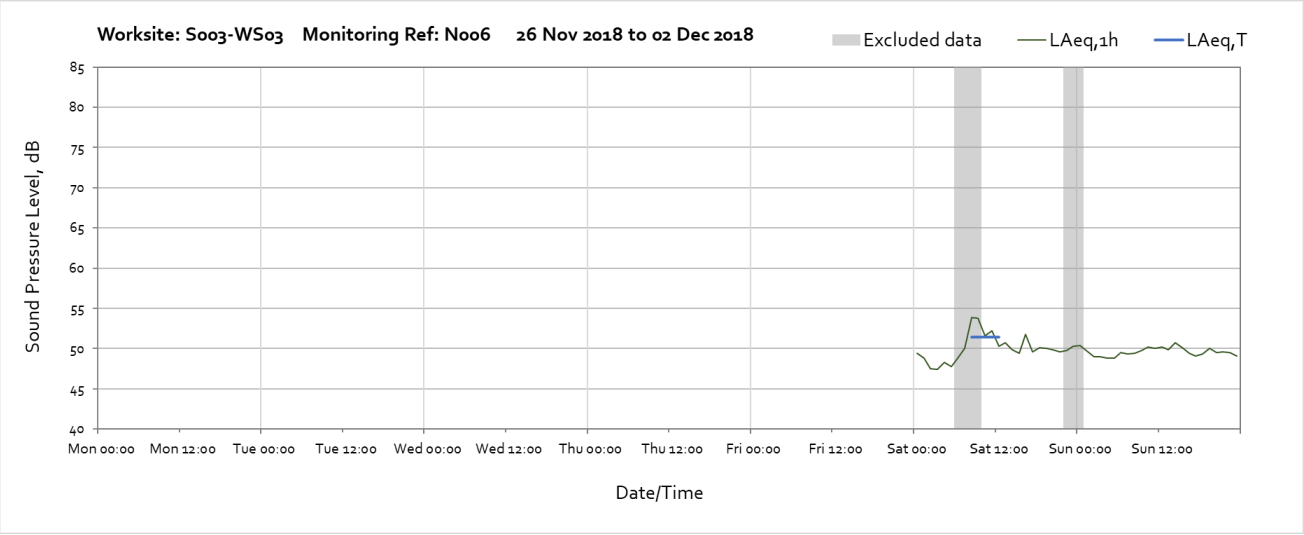


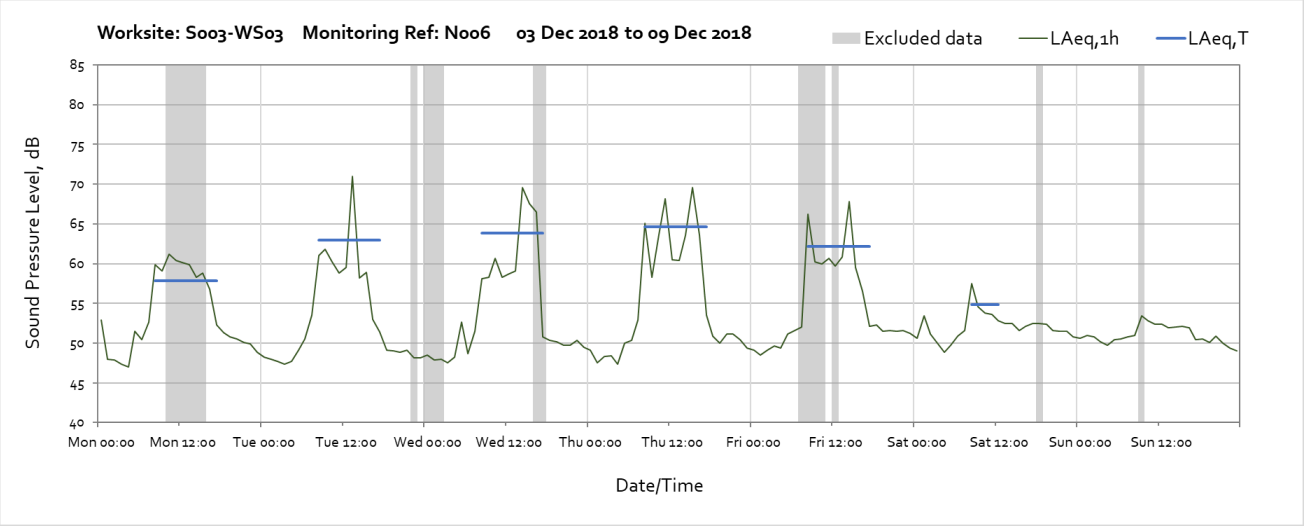
Note – Missing data between 10:00 on Friday 14th and 16:00 on Monday 17th due to a loss of power at the noise monitor.

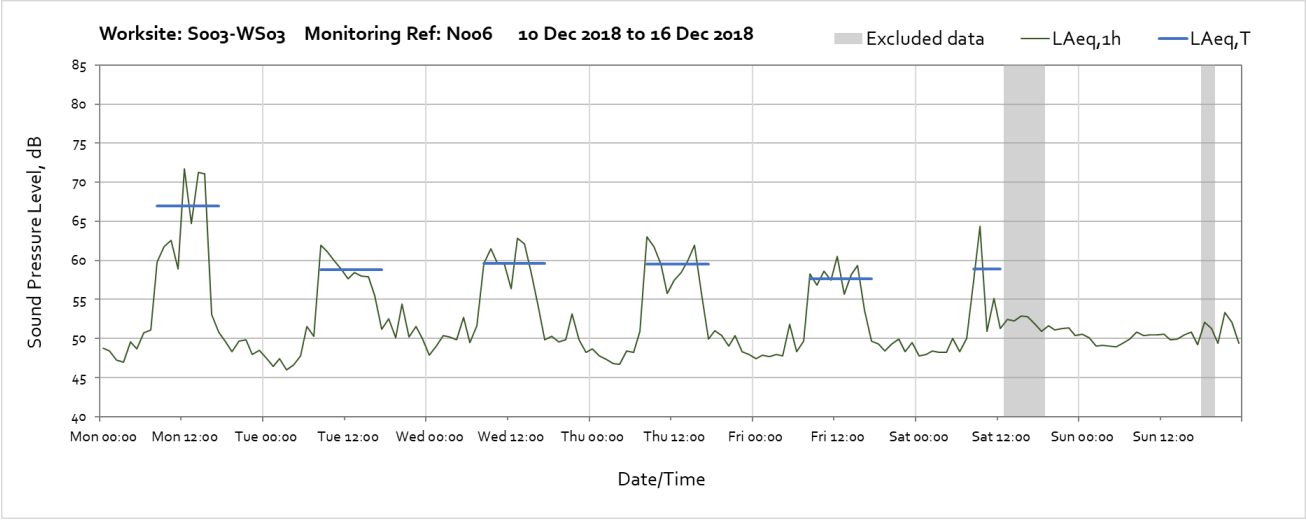




Worksite: S003-WS03 – Monitoring Ref: N006






Worksite: S003-WS03 Monitoring Ref: N006 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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55
50
45
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Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
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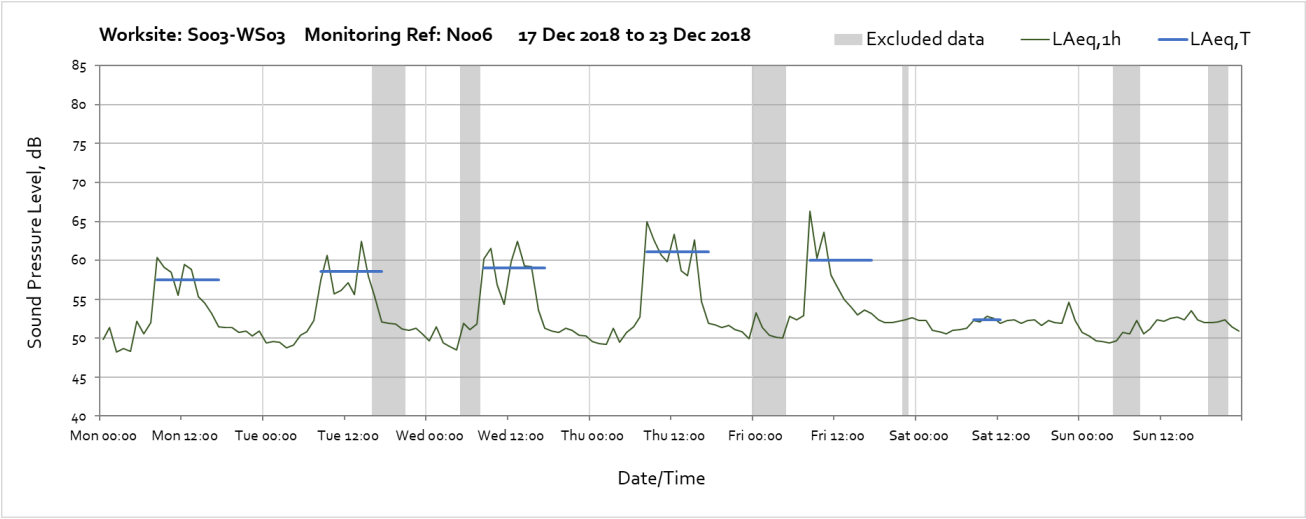
Sun 12:00
Date/Time


Worksite: S003-WS03 Monitoring Ref: N006 17 Dec 2018 to 23 Dec 2018
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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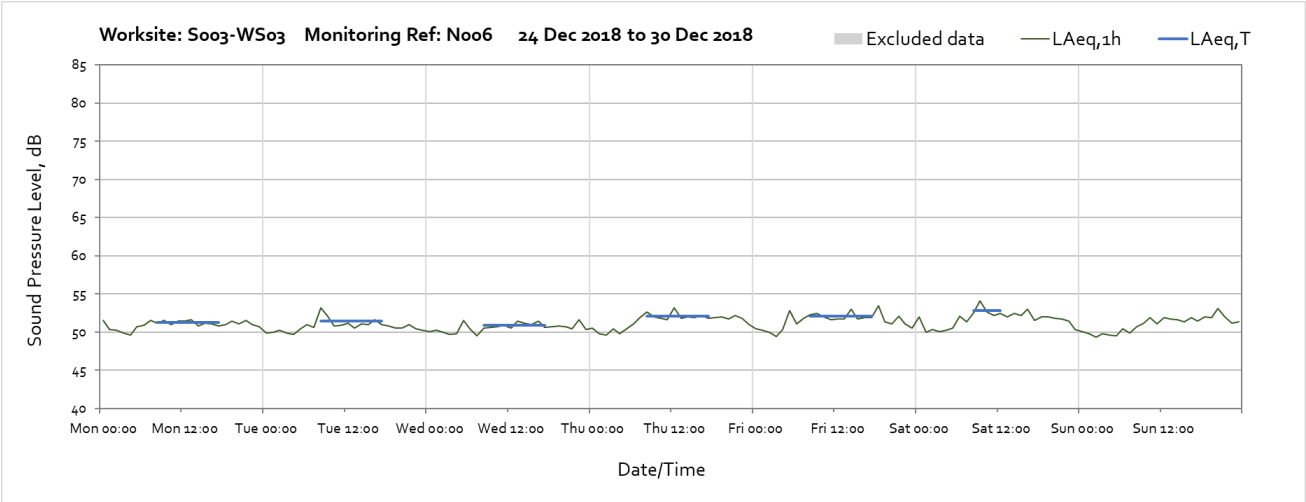
Date/Time


Worksite: S003-WS03 Monitoring Ref: N006 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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50
45
40
Mon 00:00
Mon 12:00
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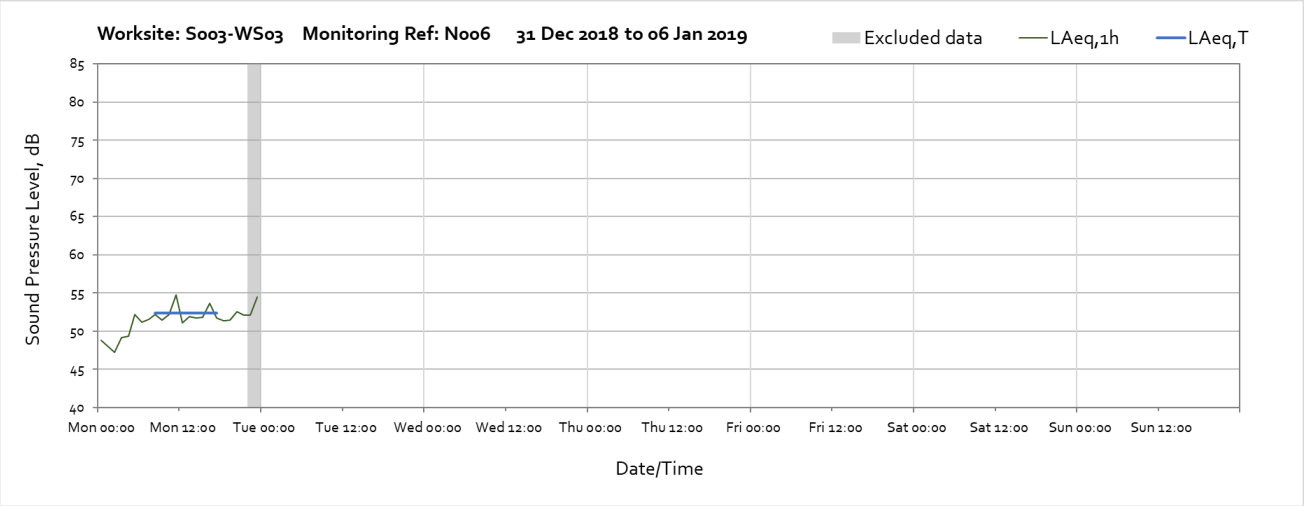
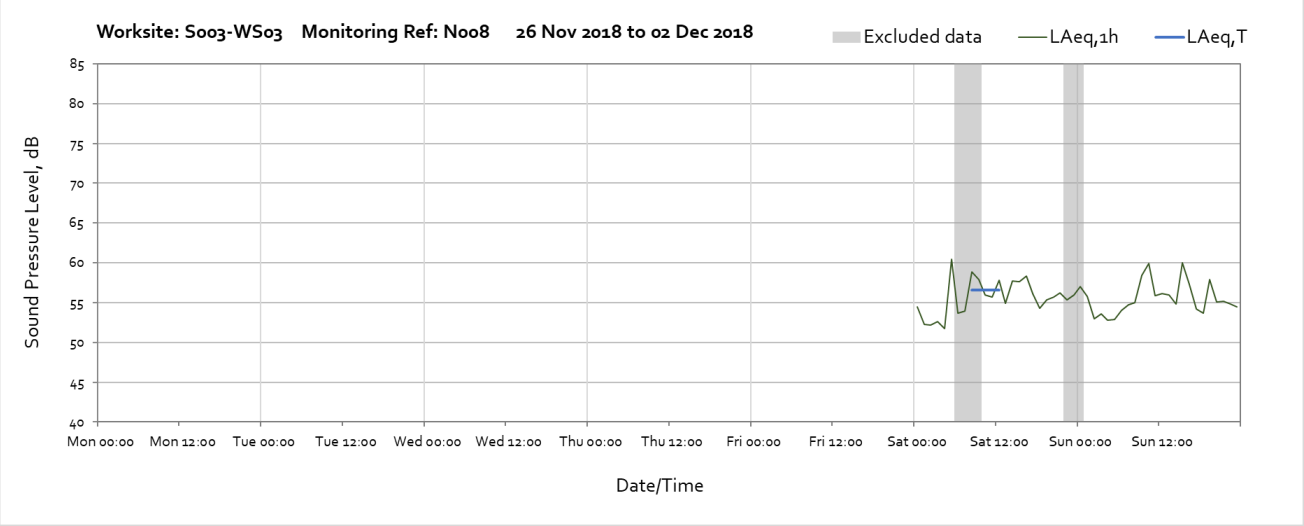
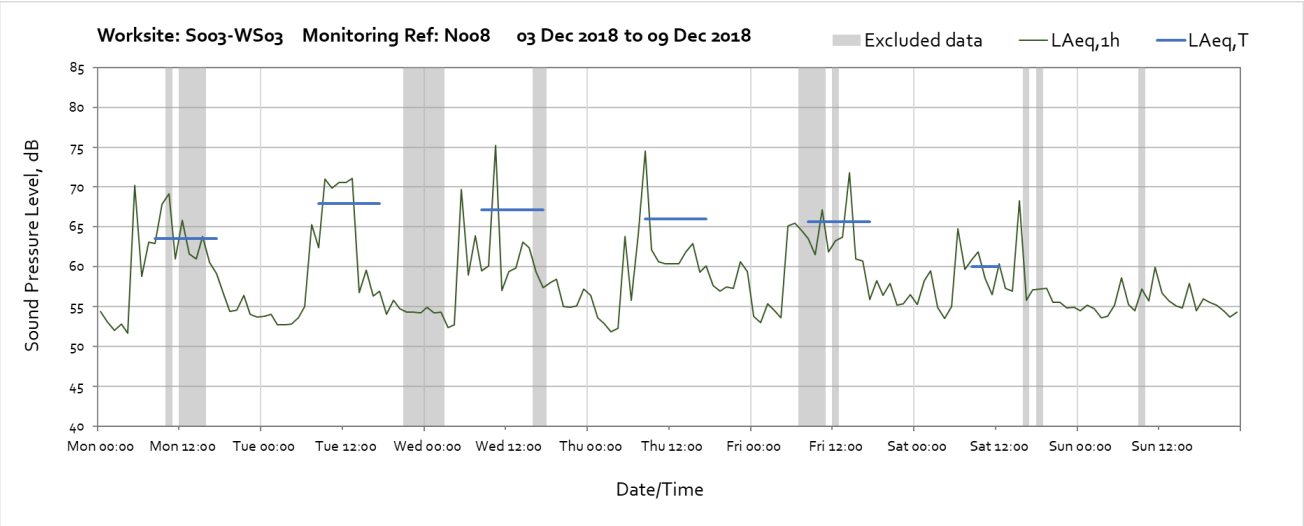
Date/Time

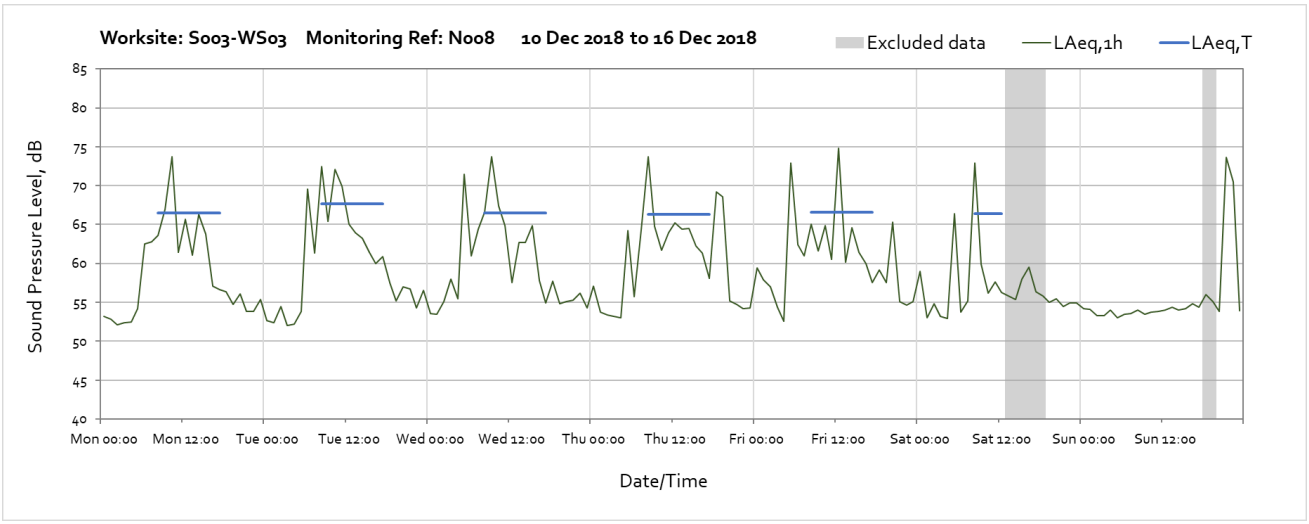


Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: S003-WS03 – Monitoring Ref: N008






Worksite: S003-WS03 Monitoring Ref: N008 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
70
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60
55
50
45
40
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Mon 12:00
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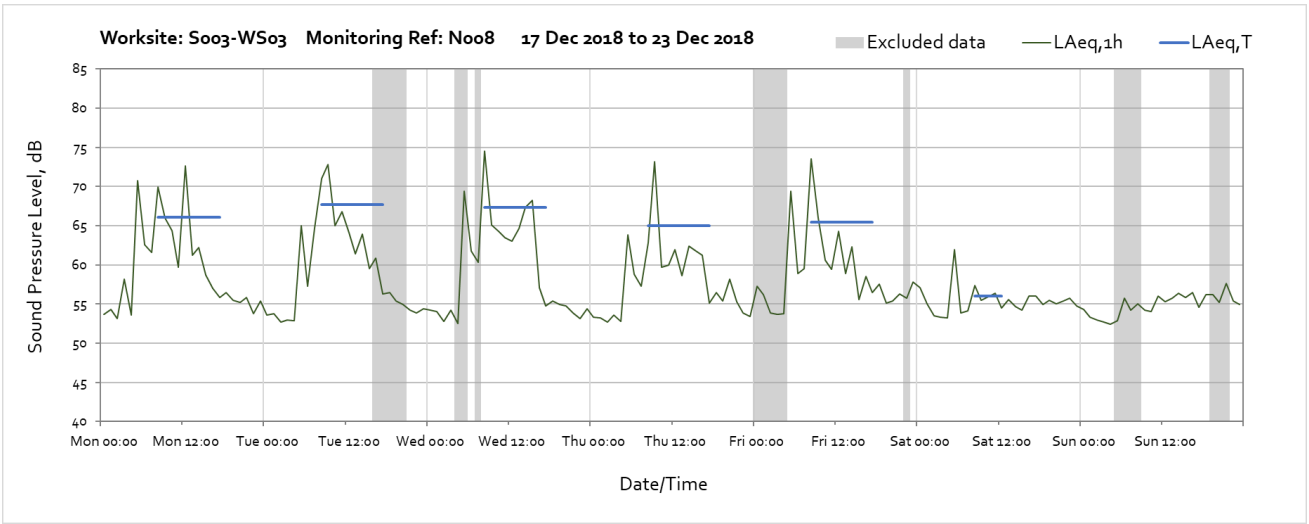
Sun 12:00
Date/Time


Worksite: S003-WS03 Monitoring Ref: N008 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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75
70
65
60
55
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45
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Mon 00:00
Mon 12:00
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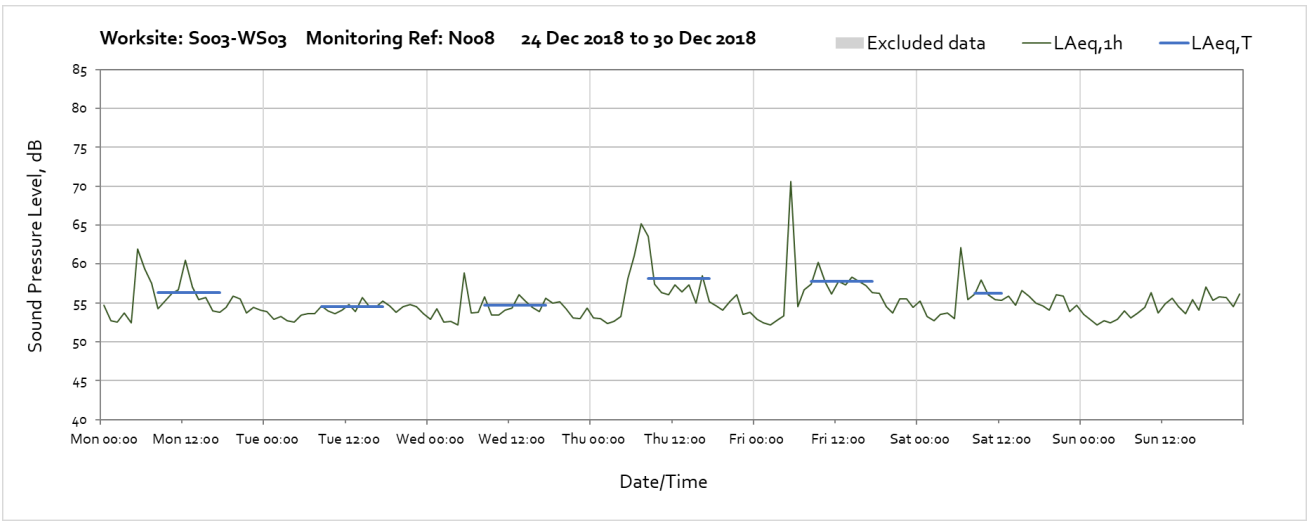
Sun 12:00
Date/Time


Worksite: S003-WS03 Monitoring Ref: N008 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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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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Fri 12:00
Sat 00:00
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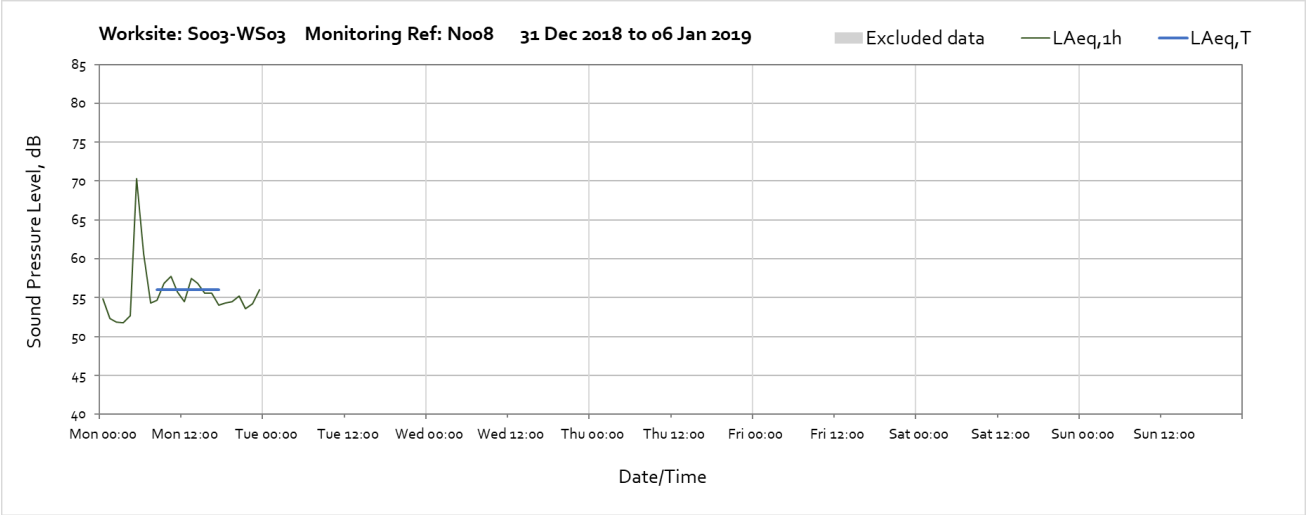
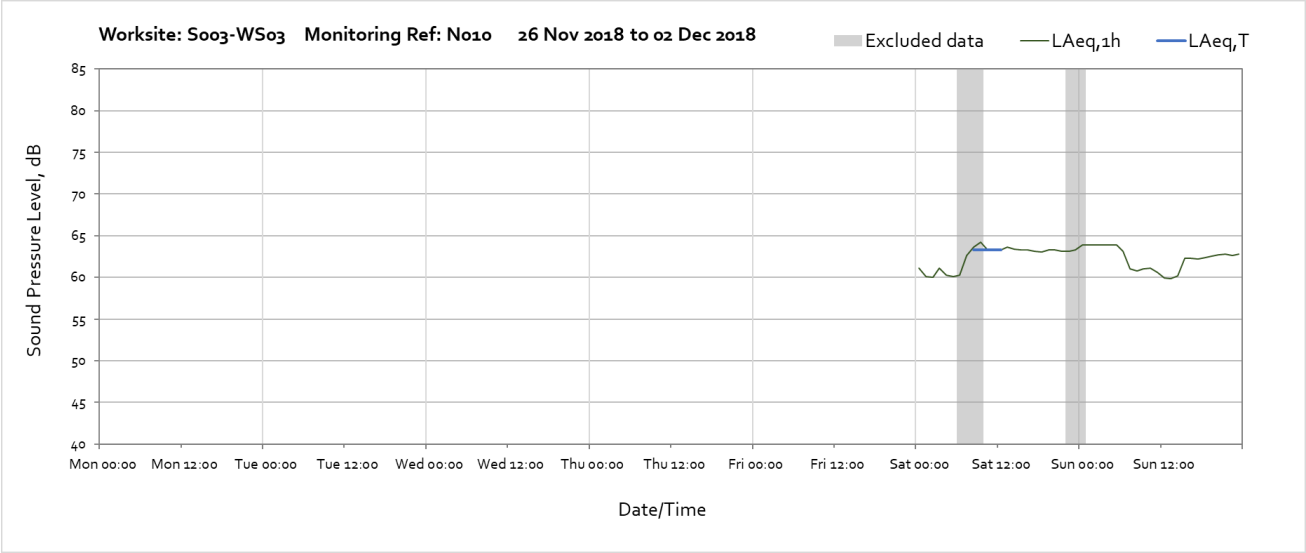
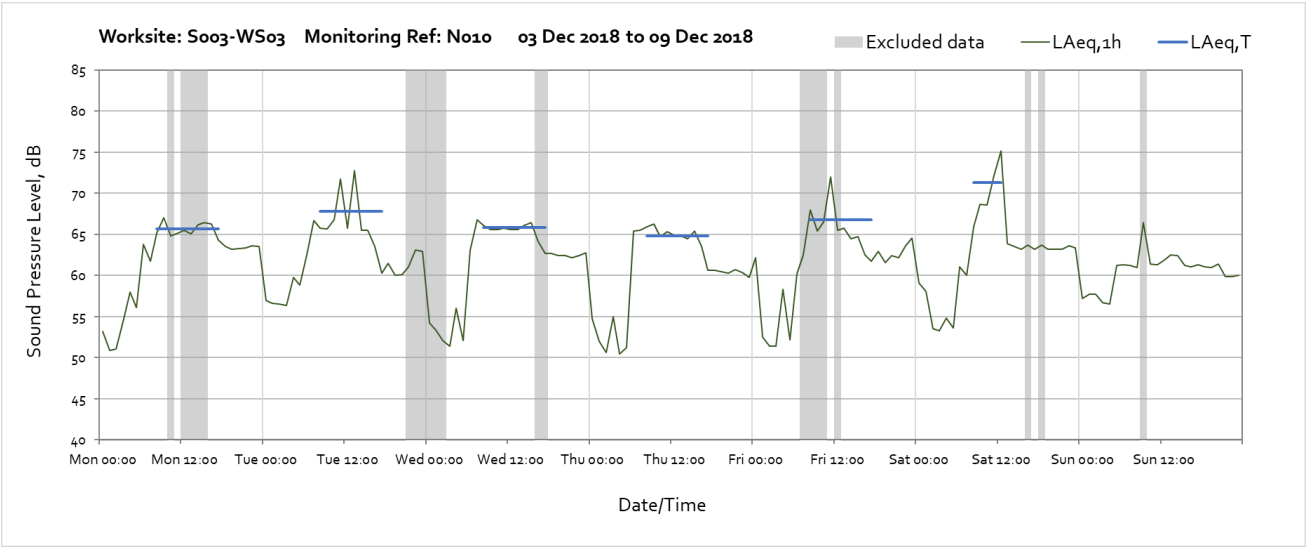
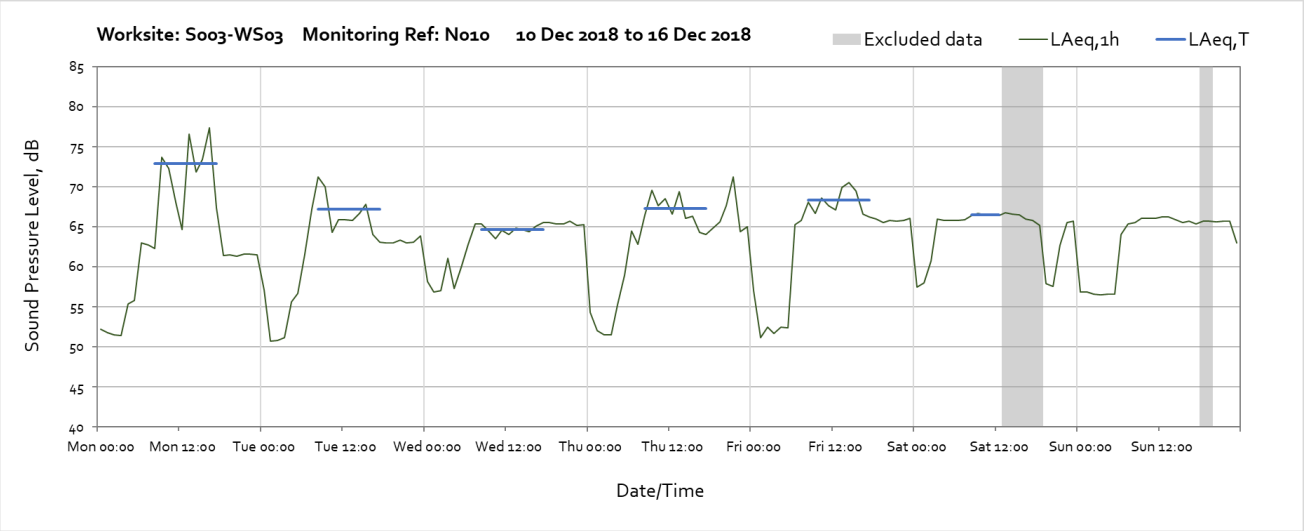
Sun 00:00
Sun 12:00
Date/Time

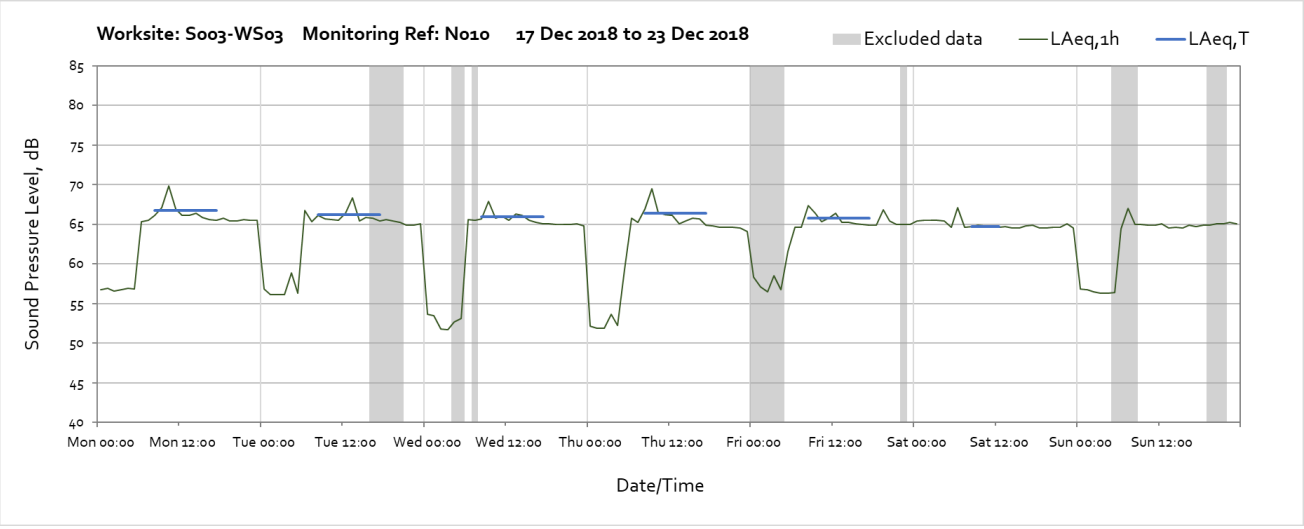


Worksite: S003-WS03 – Monitoring Ref: N010

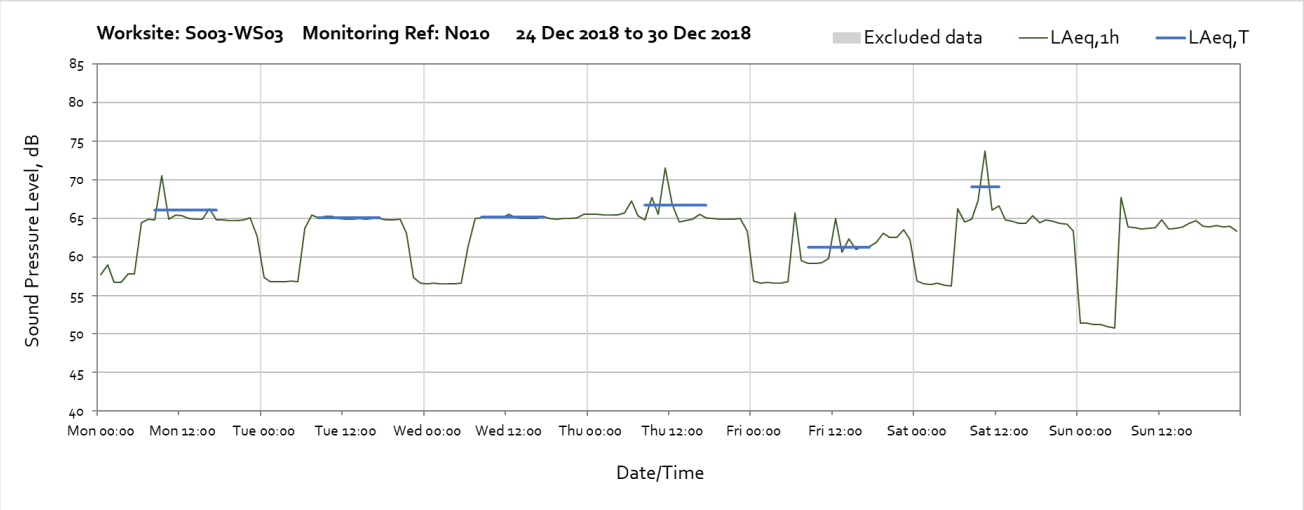




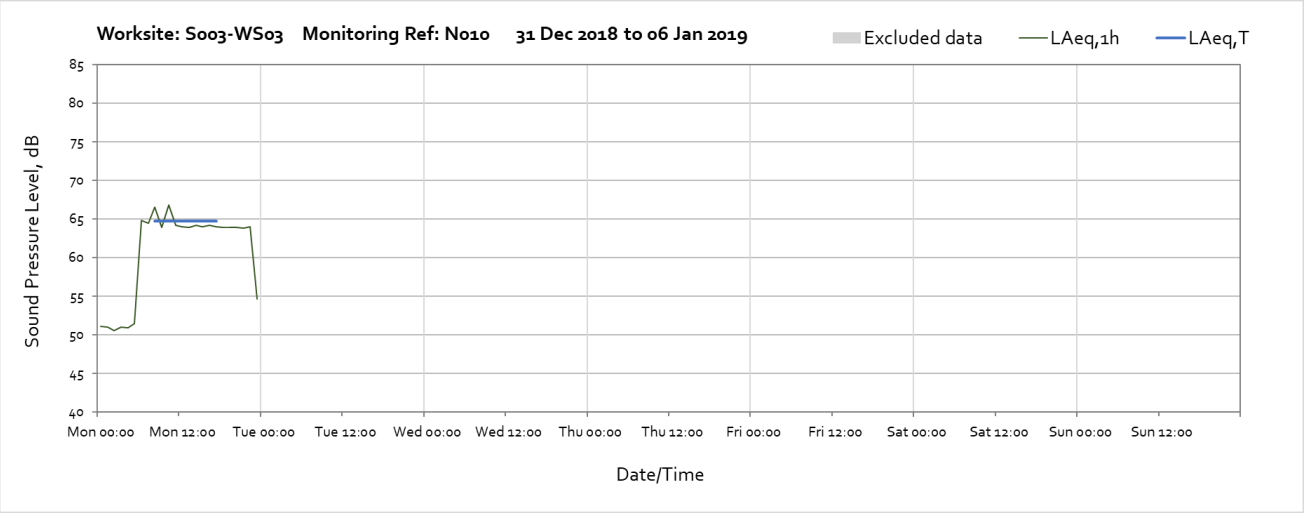




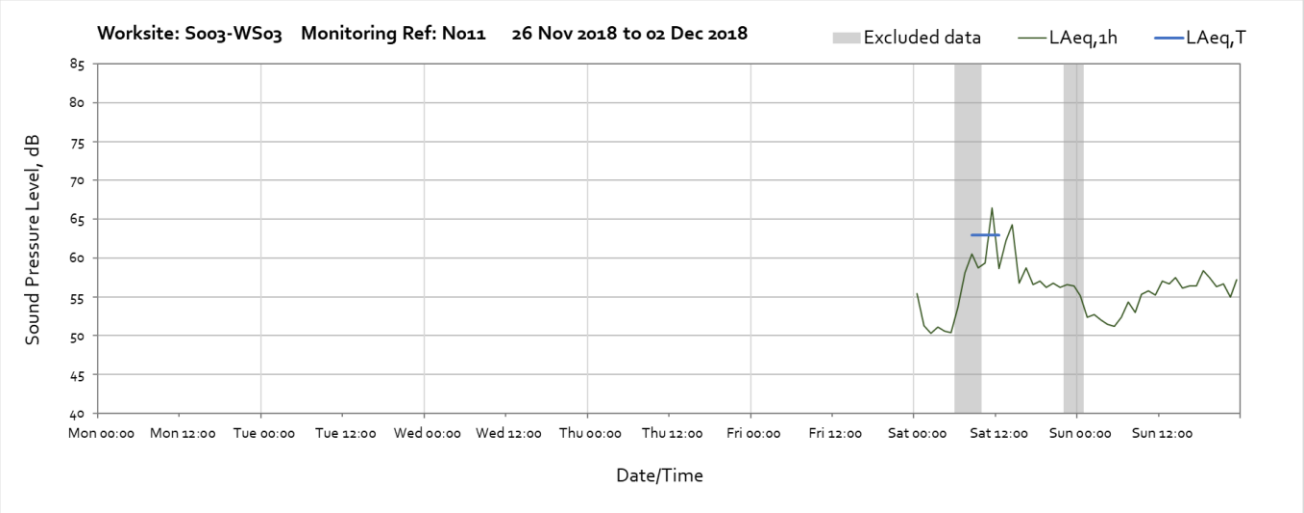
Note – High noise levels during the night of the 21st December are thought to be due to noise from mechanical plant at a nearby hotel. No HS2 construction activities were taking place in proximity to this location during this period.

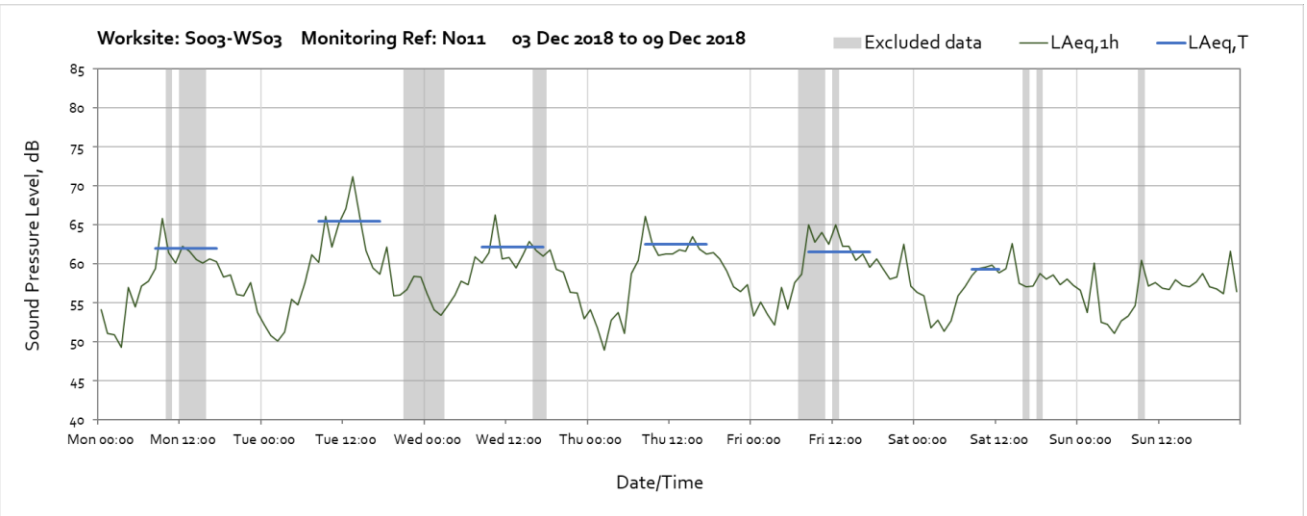


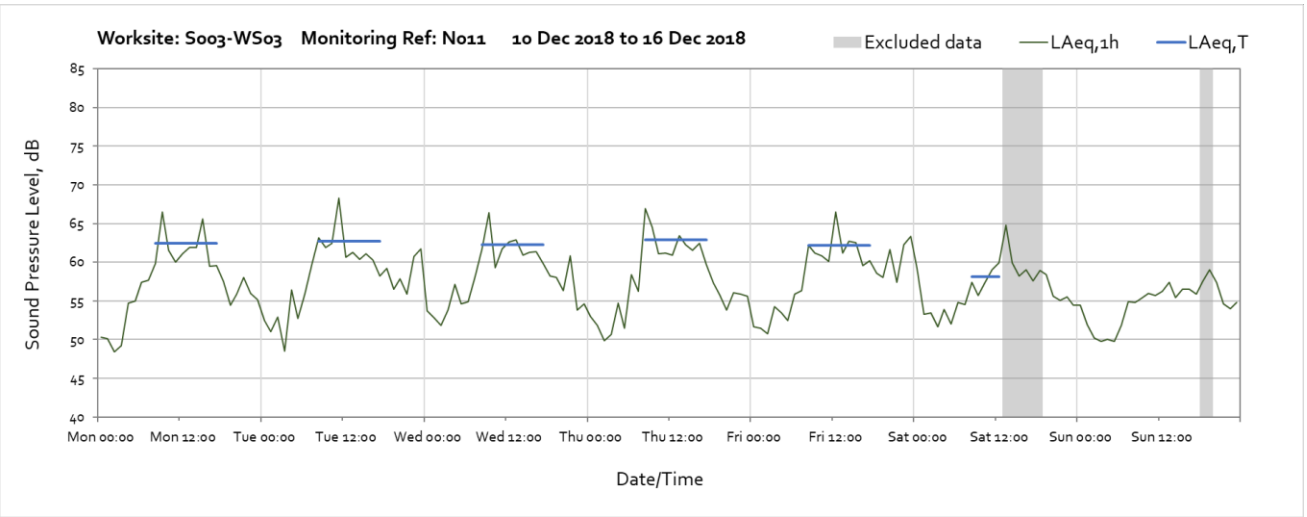
Note – High noise levels during the night of the 26th December are thought to be due to noise from mechanical plant at a nearby hotel. No HS2 construction activities were taking place in proximity to this location during this period.

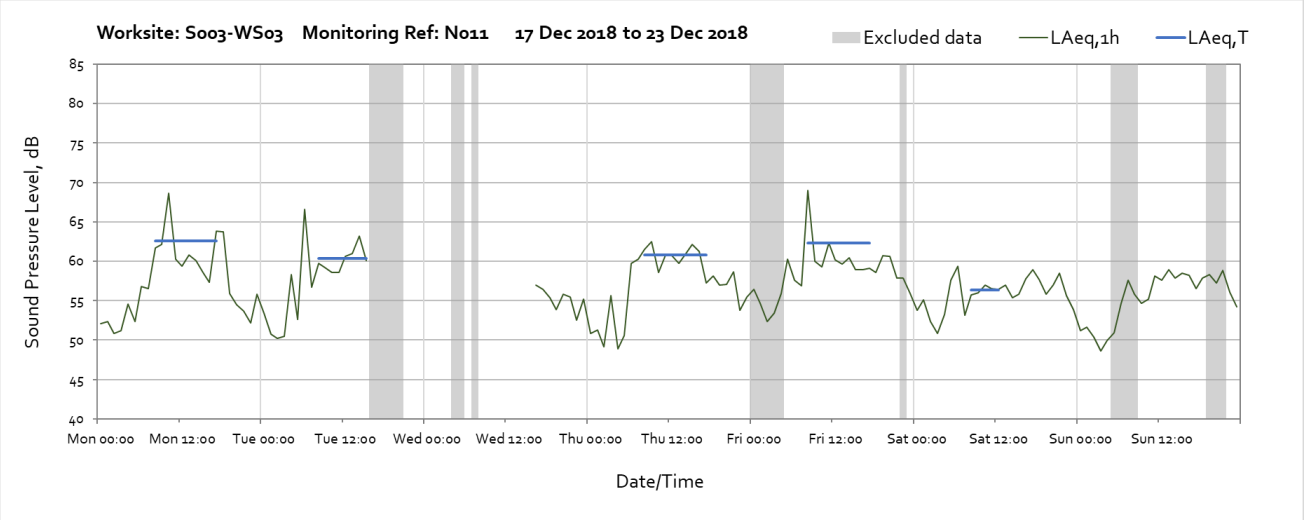


Worksite: S003-WS03 – Monitoring Ref: N011

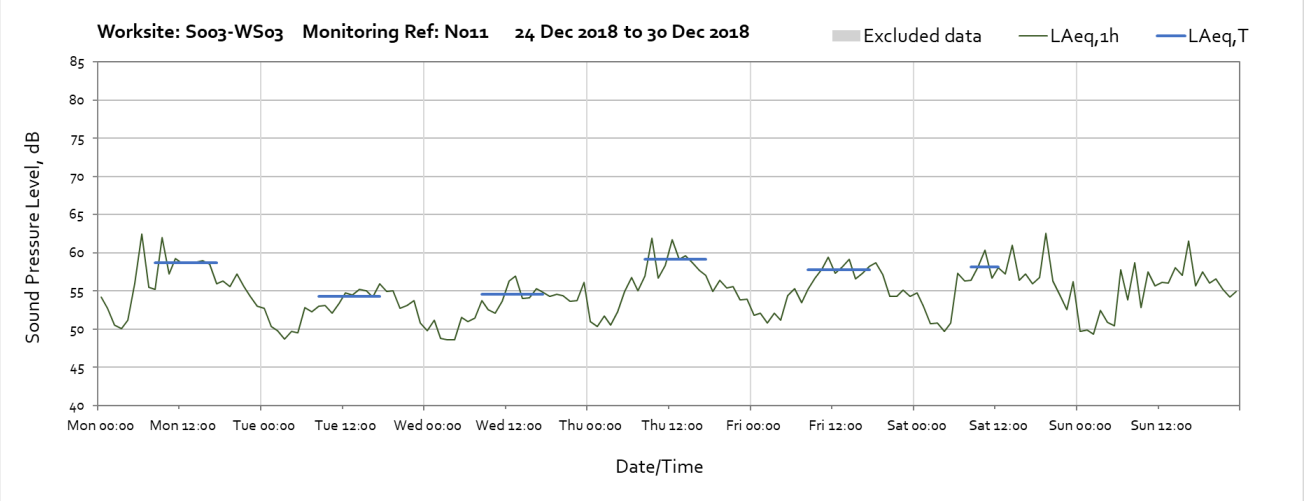


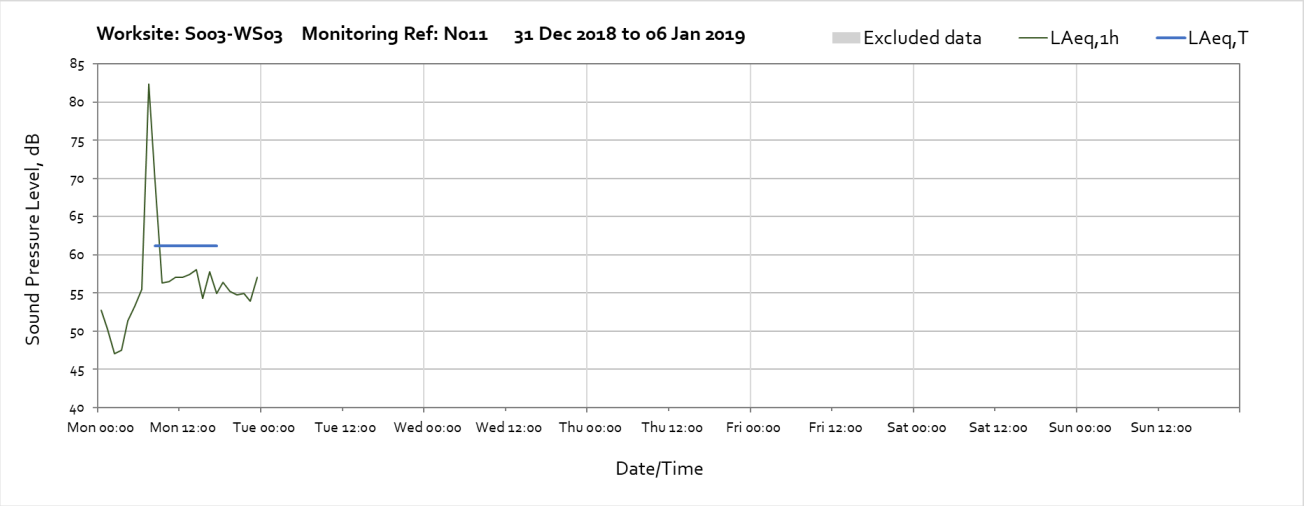






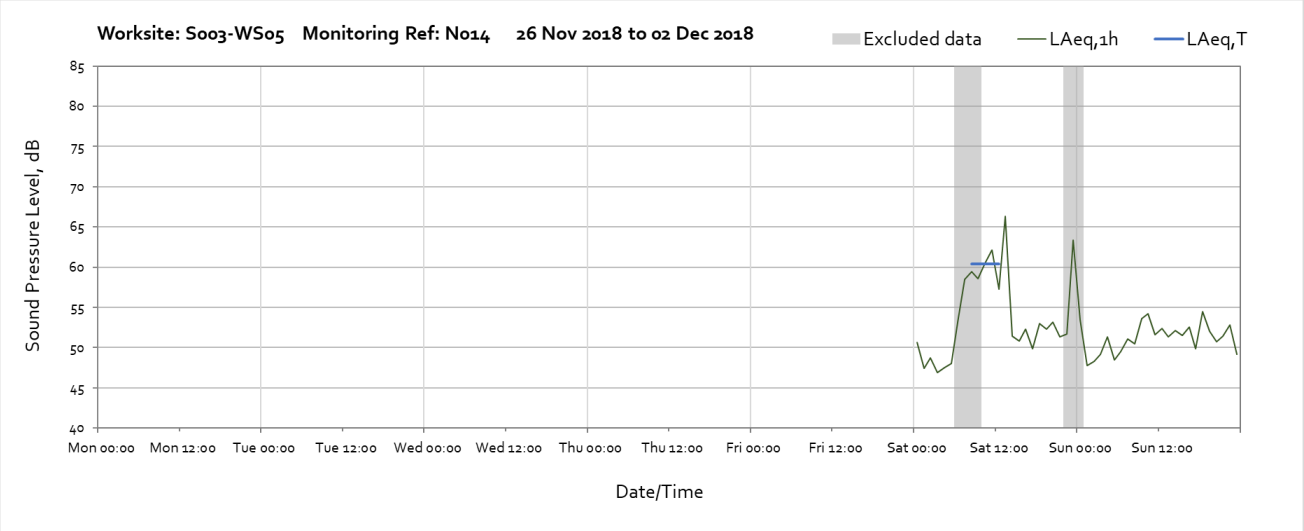
Note – Missing data between 15:00 on Tuesday 18th and 16:00 on Wednesday 19th due to a loss of power at the noise monitor.

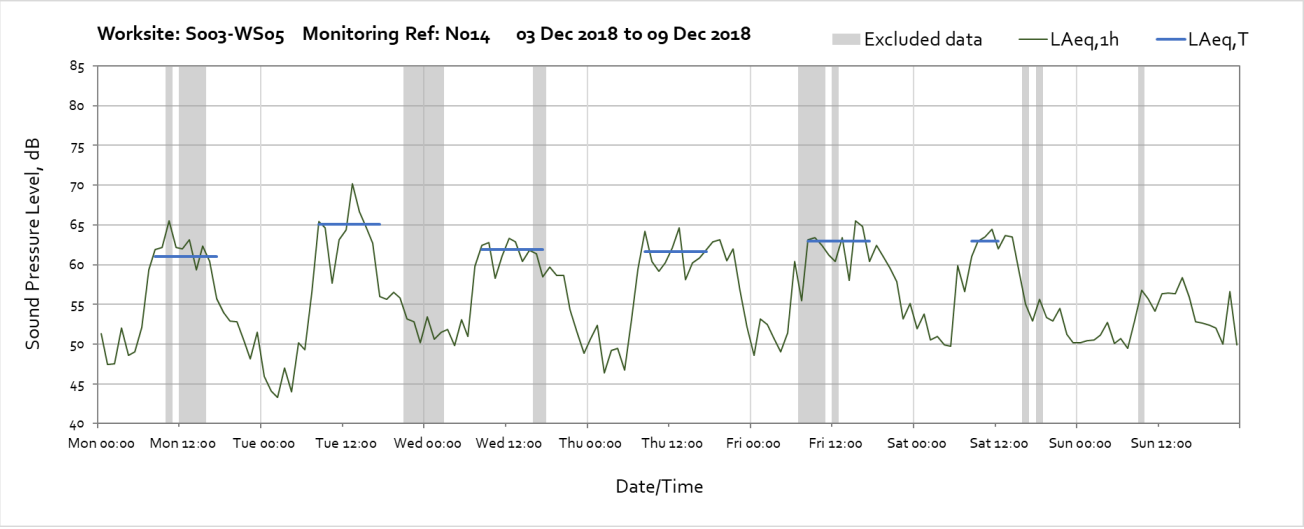


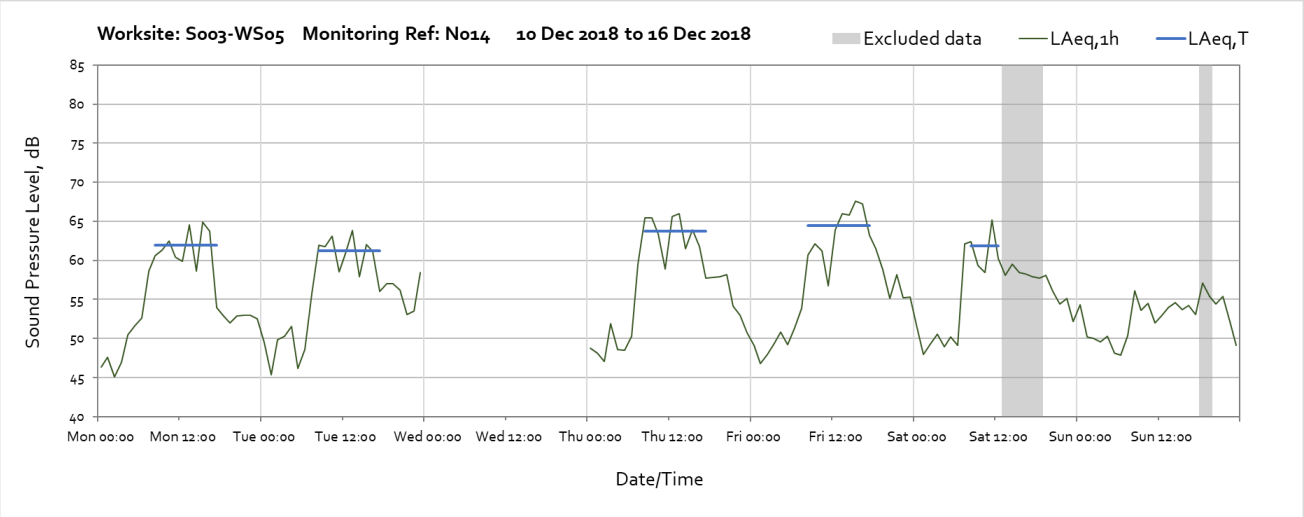


Note – High noise levels at 07:00 on Monday 31st December are thought to be due to loud noise events happening in close proximity to the noise monitor. No HS2 construction activities were taking place in proximity to this location at this time.

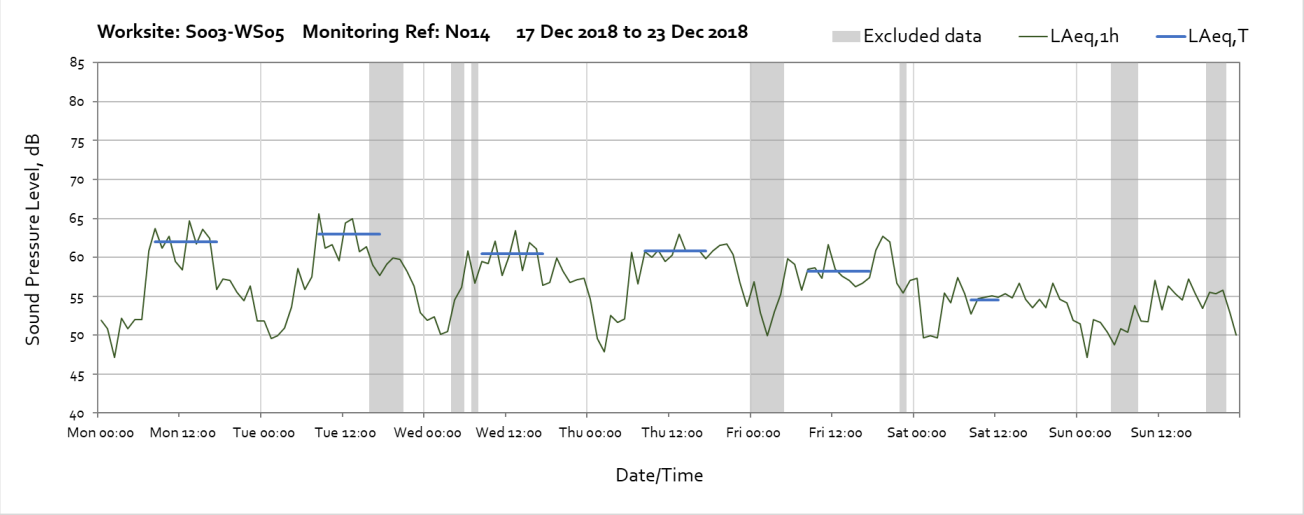
Worksite: S003-WS05 – Monitoring Ref: N014

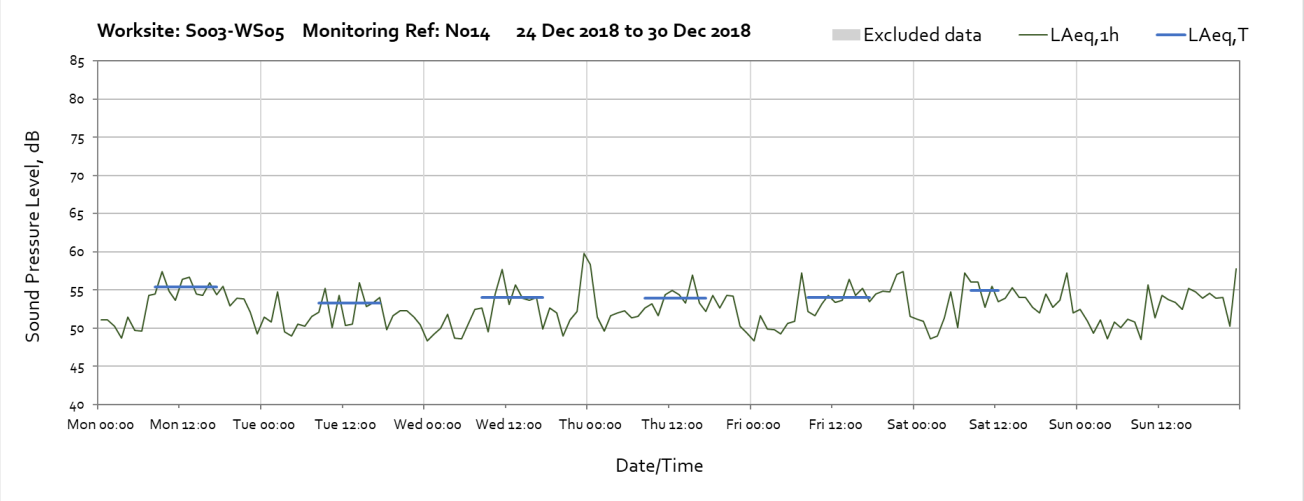


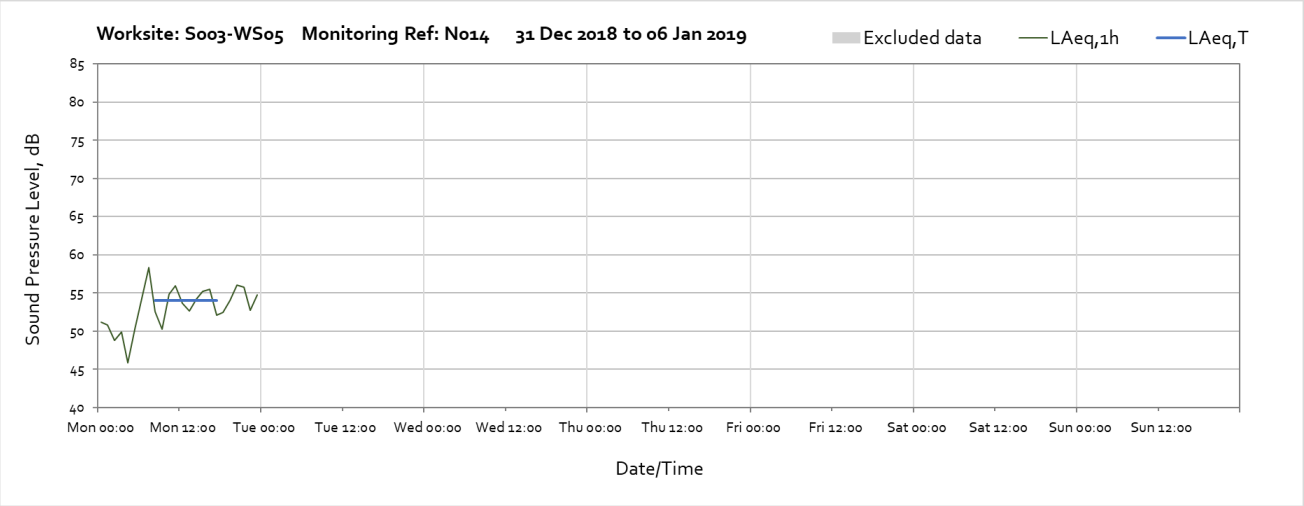




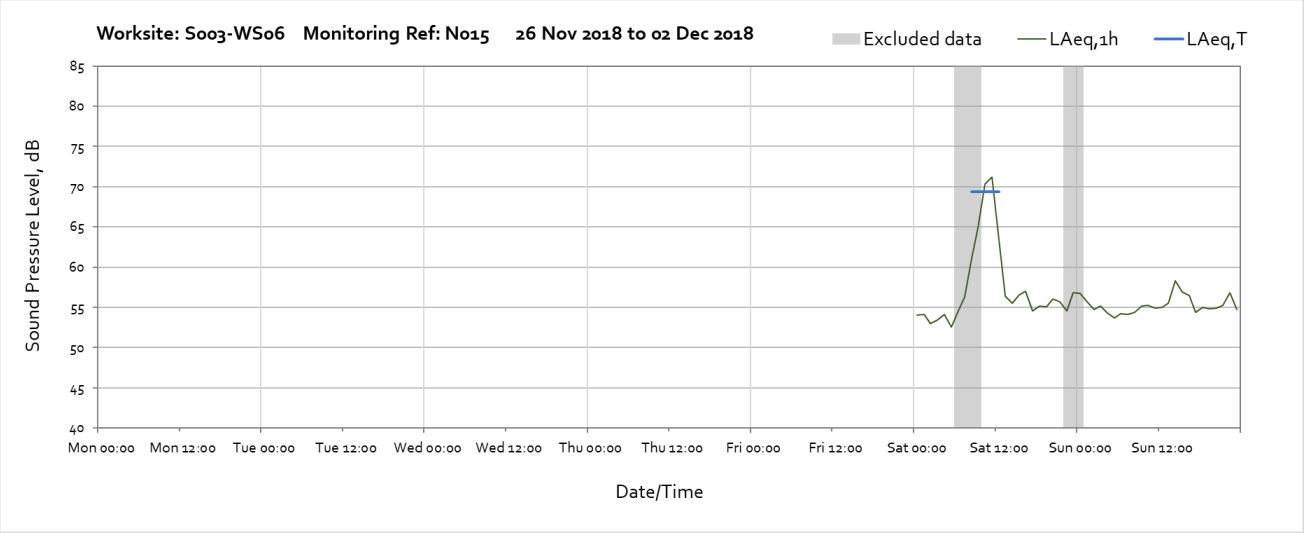
Note – Missing data between 23:00 on Tuesday 11th and 01:00 on Thursday 13th due to a loss of power at the noise monitor.

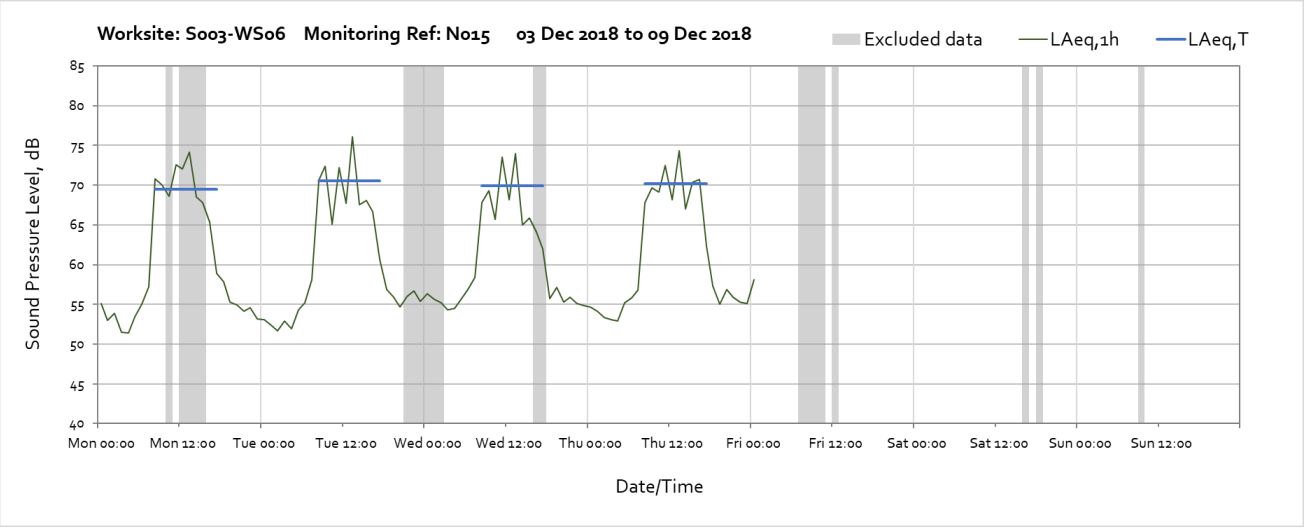




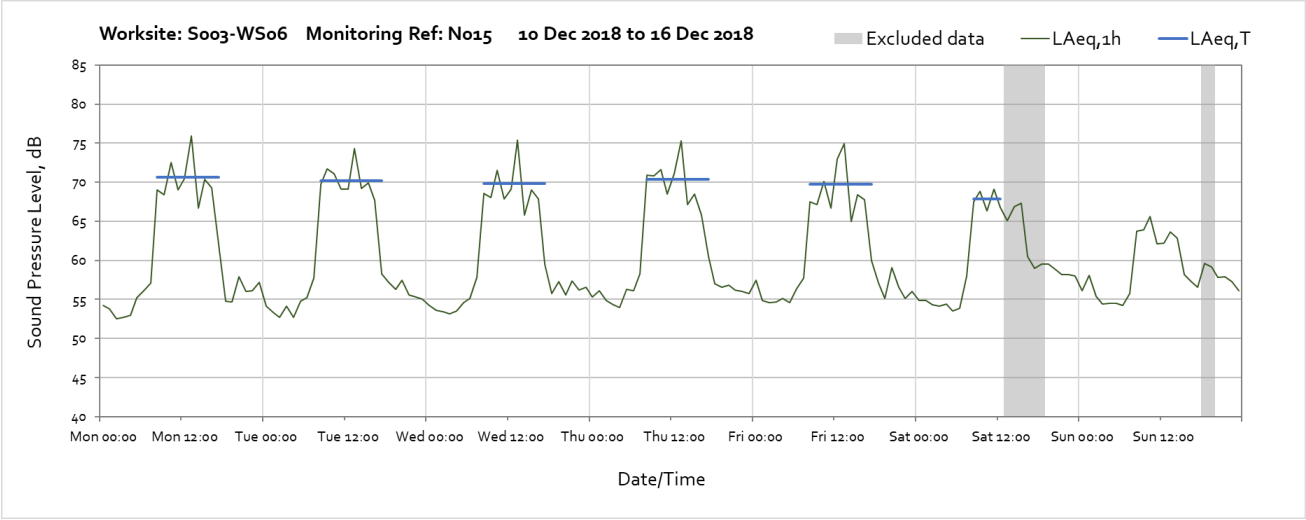


Worksite: S003-WS06 – Monitoring Ref: N015





Note – Missing data between 00:00 on Friday 07th and 00:00 on Monday 10th due to a loss of power at the noise monitor.


Worksite: S003-WS06 Monitoring Ref: N015 10 Dec 2018 to 16 Dec 2018
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
Tue 12:00
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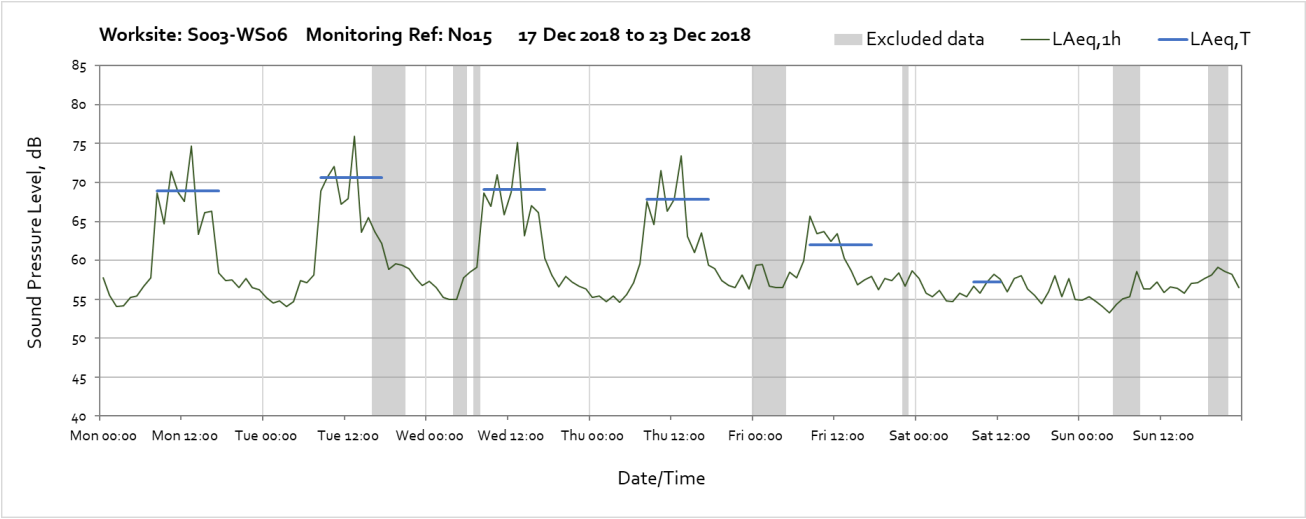
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time


Worksite: S003-WS06 Monitoring Ref: N015 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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60
55
50
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Wed 00:00
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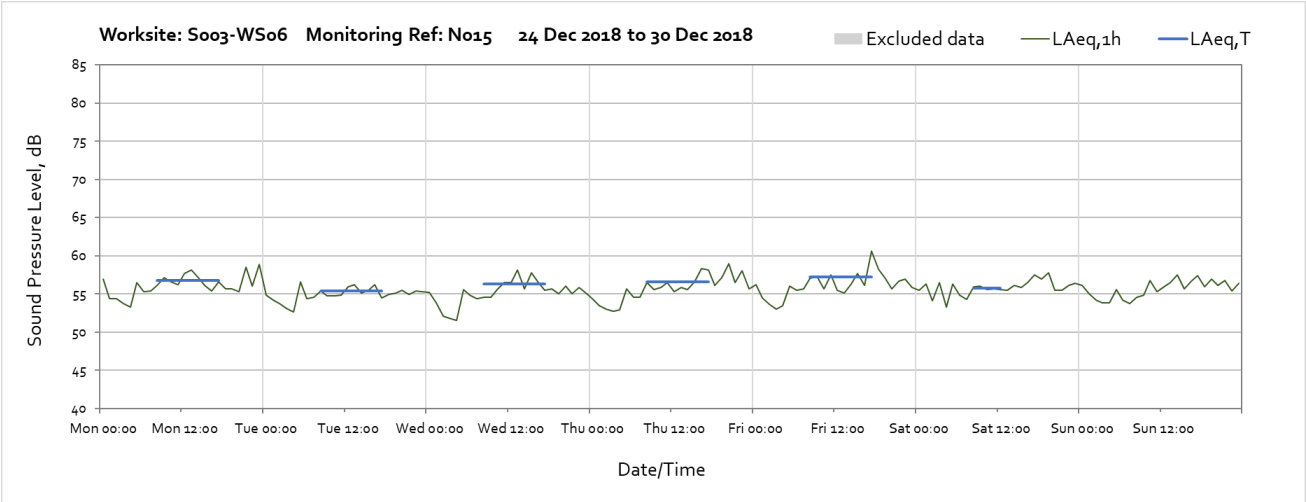
Sun 12:00
Date/Time


Worksite: S003-WS06 Monitoring Ref: N015 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
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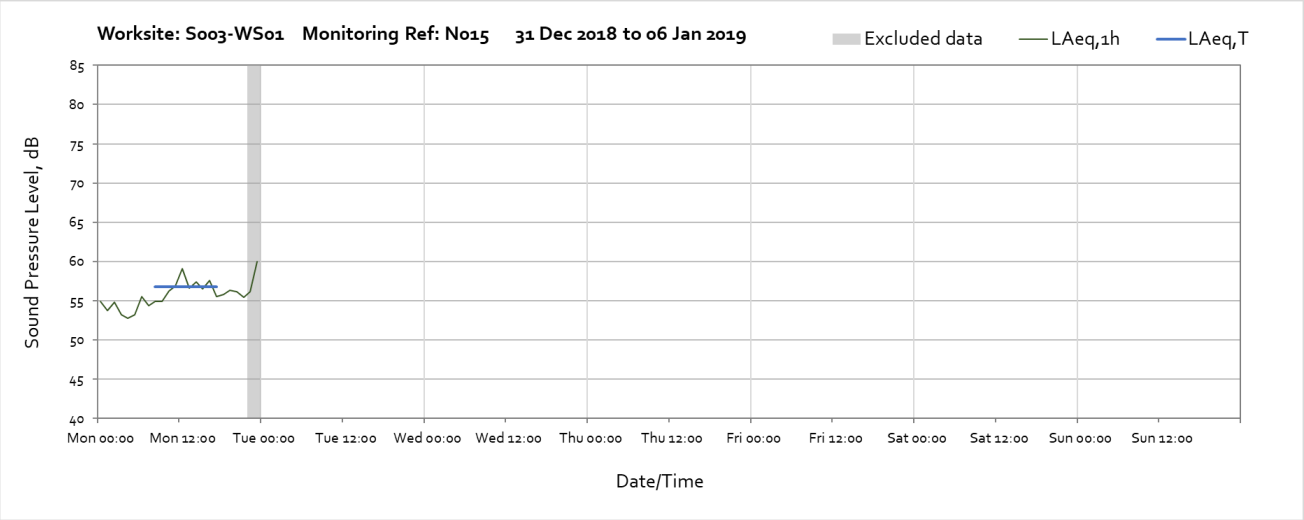
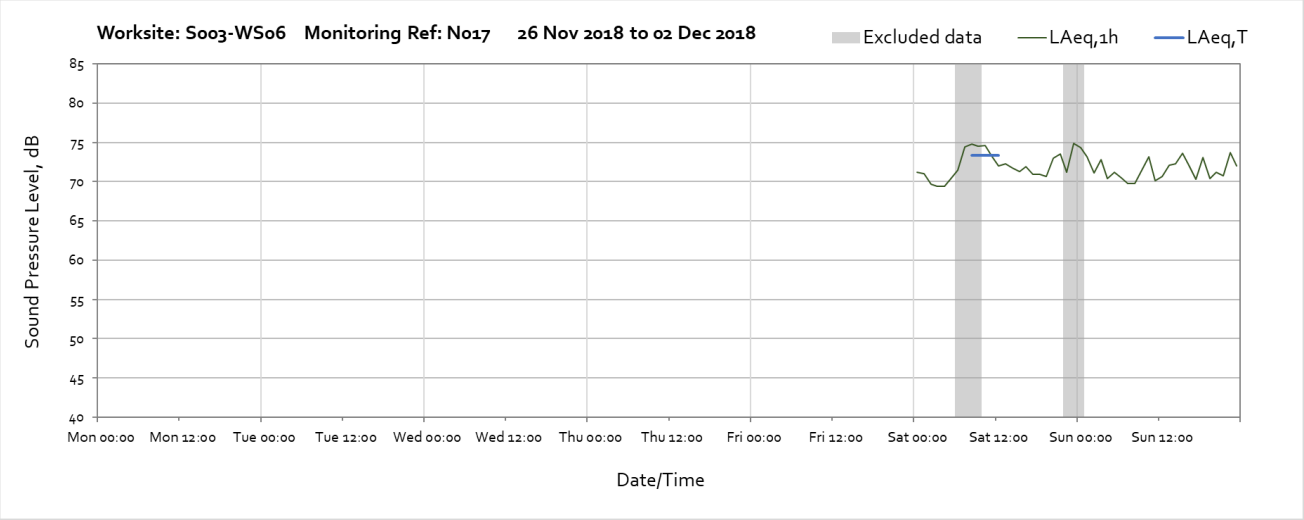
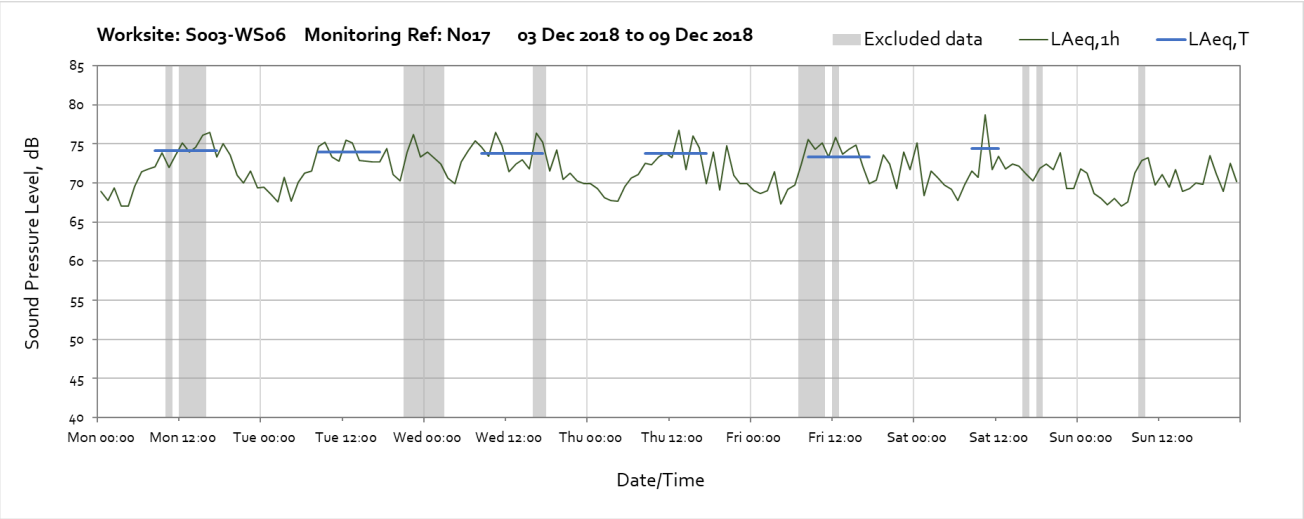
Date/Time

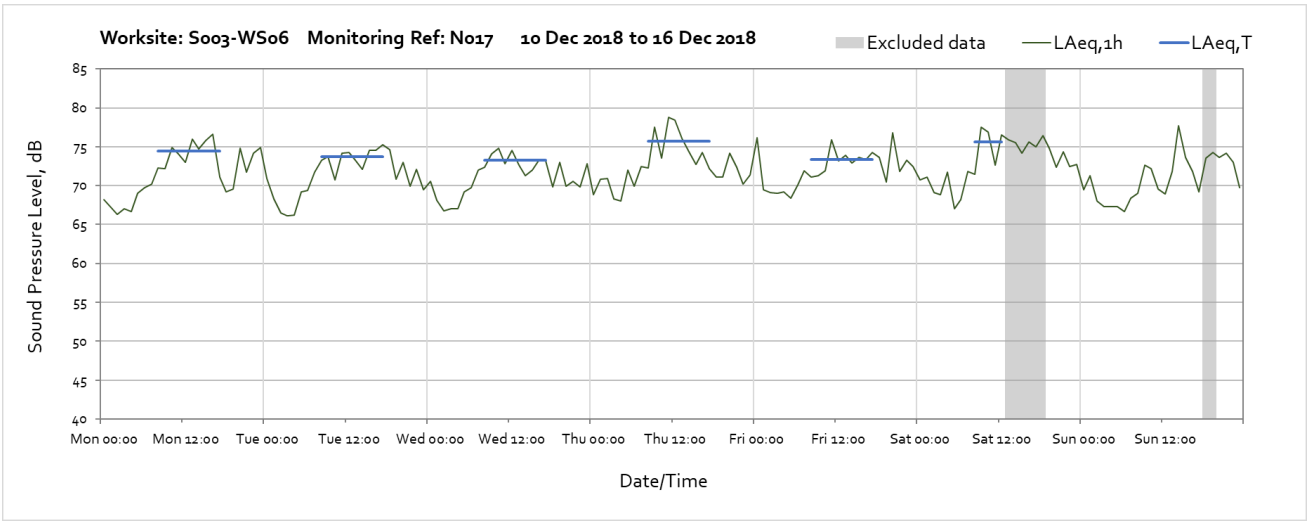


Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: S003-WS06 – Monitoring Ref: N017






Worksite: S003-WS06 Monitoring Ref: N017 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
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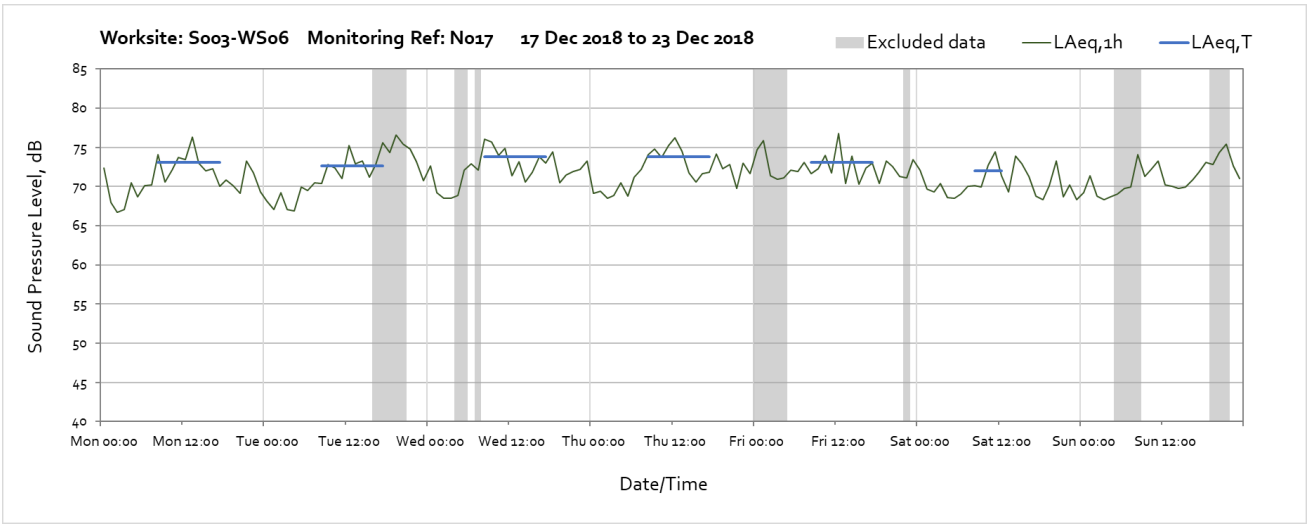
Date/Time


Worksite: S003-WS06 Monitoring Ref: N017 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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65
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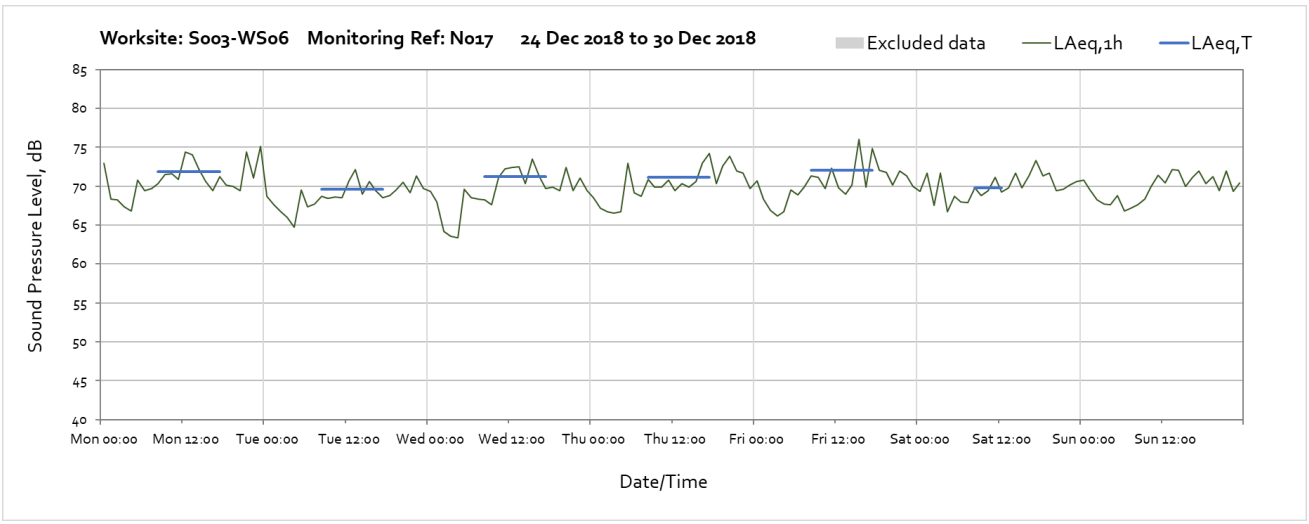
Date/Time


Worksite: S003-WS06 Monitoring Ref: N017 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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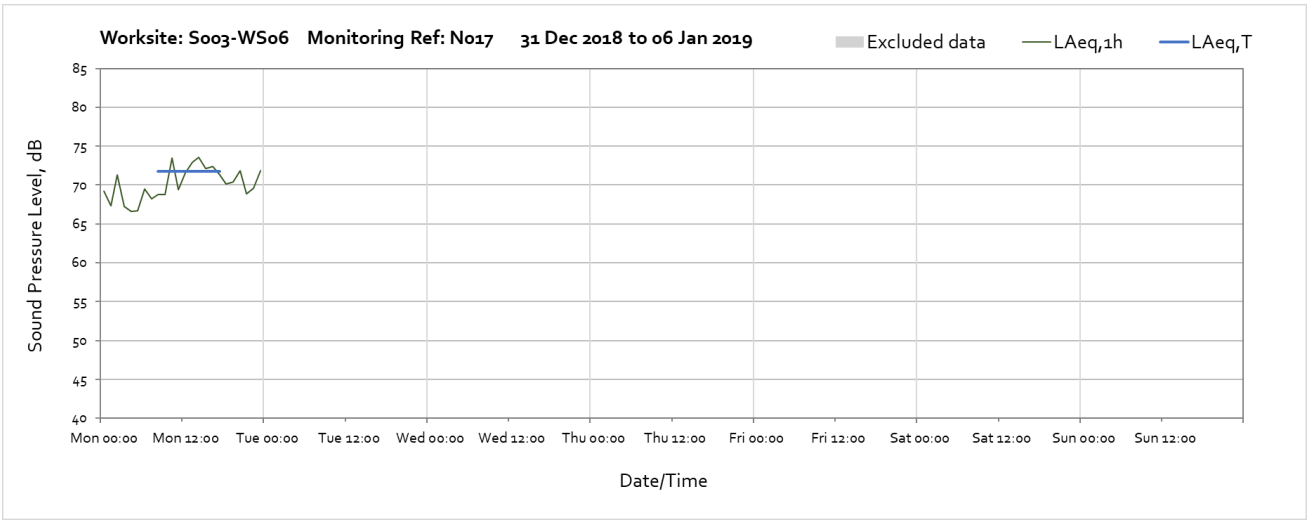
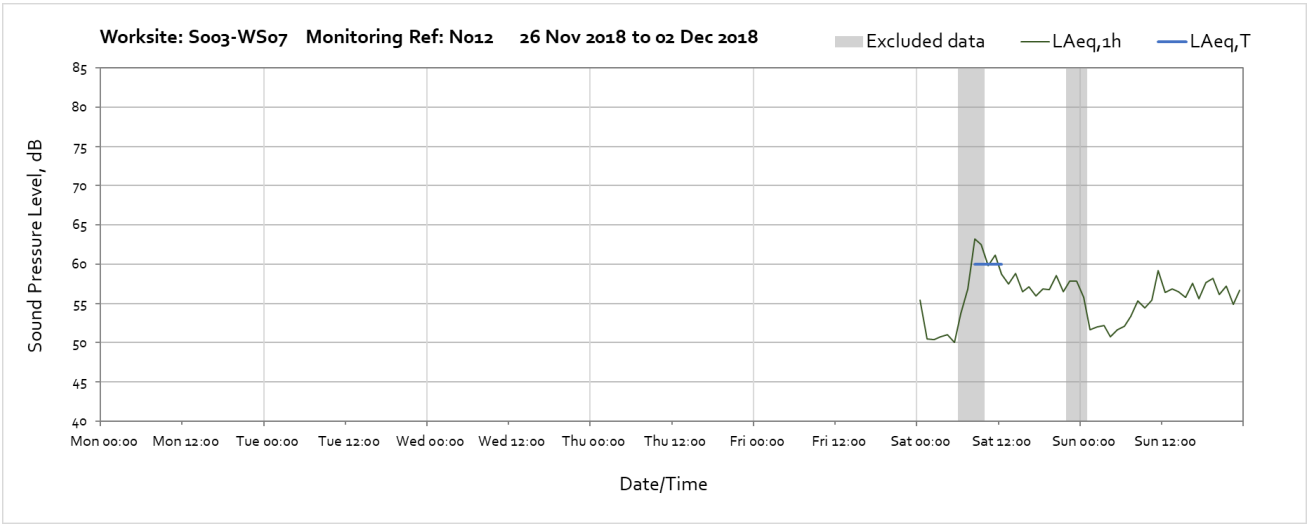
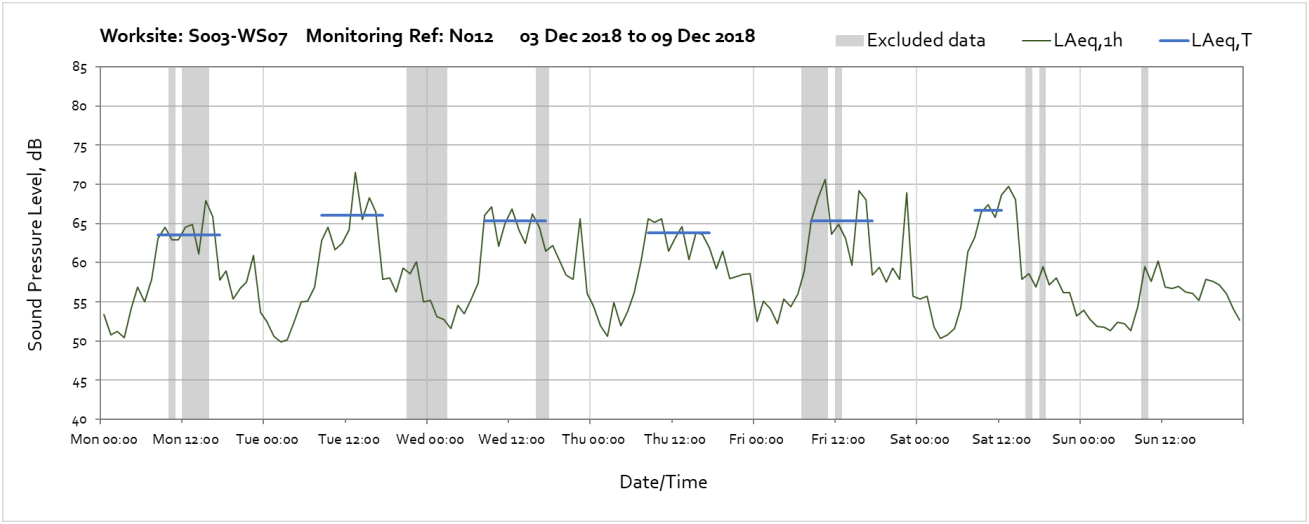
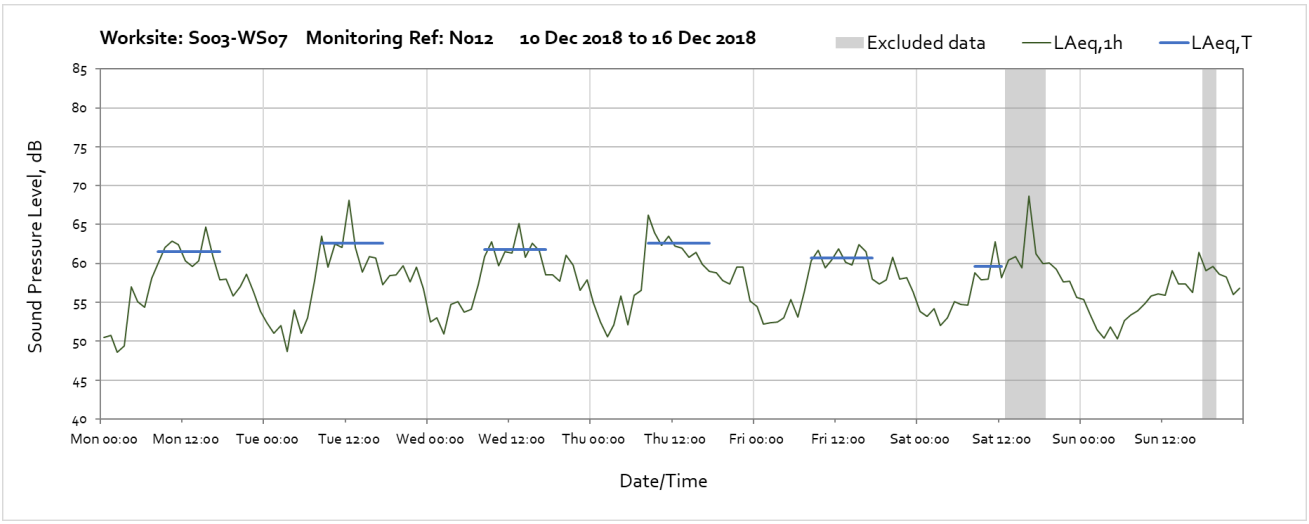
Date/Time



Worksit: S003-WS07 – Monitoring Ref: N012






Worksite: S003-WS07 Monitoring Ref: N012 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
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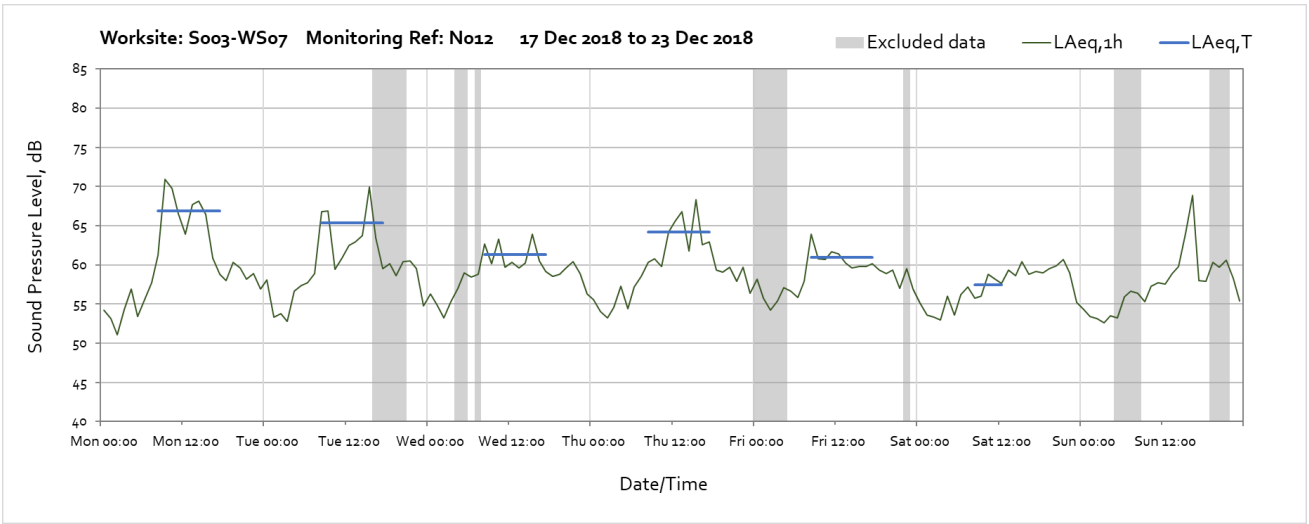
Date/Time


Worksite: S003-WS07 Monitoring Ref: N012 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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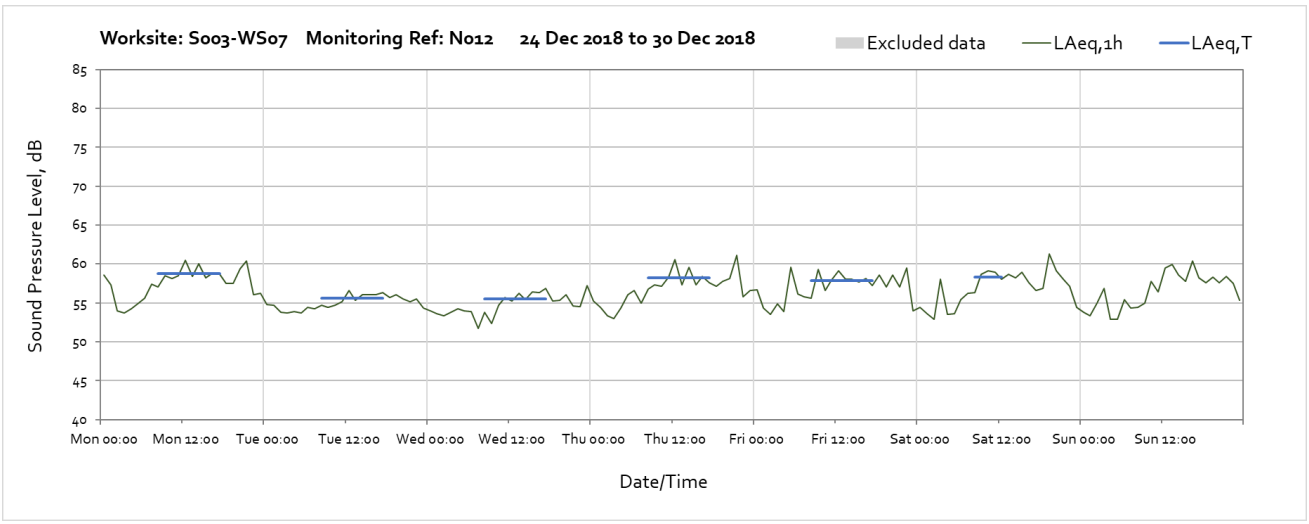
Date/Time


Worksite: S003-WS07 Monitoring Ref: N012 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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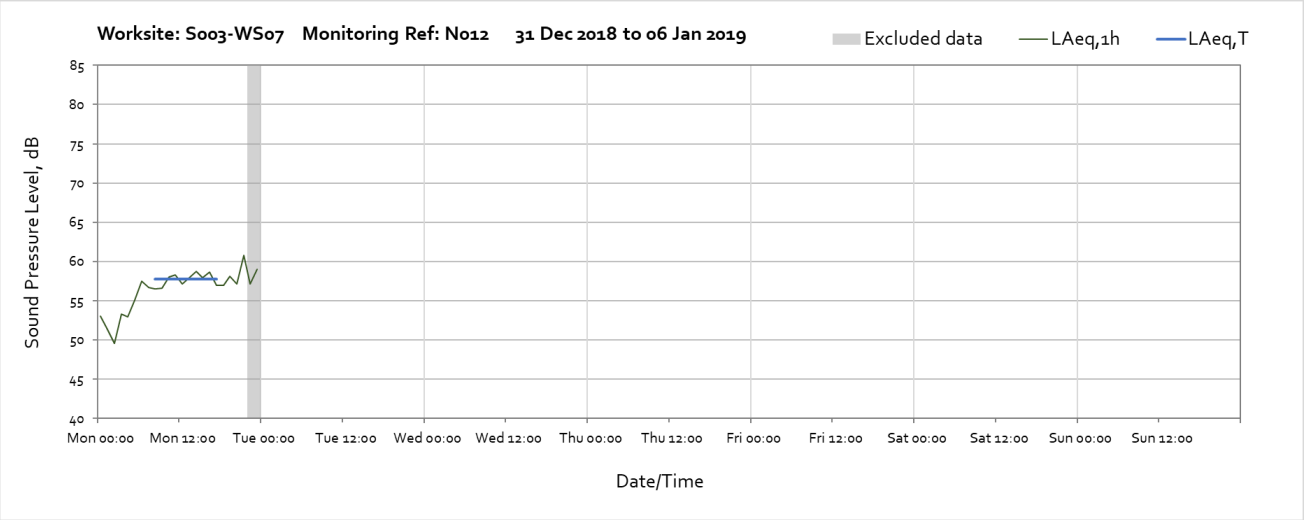
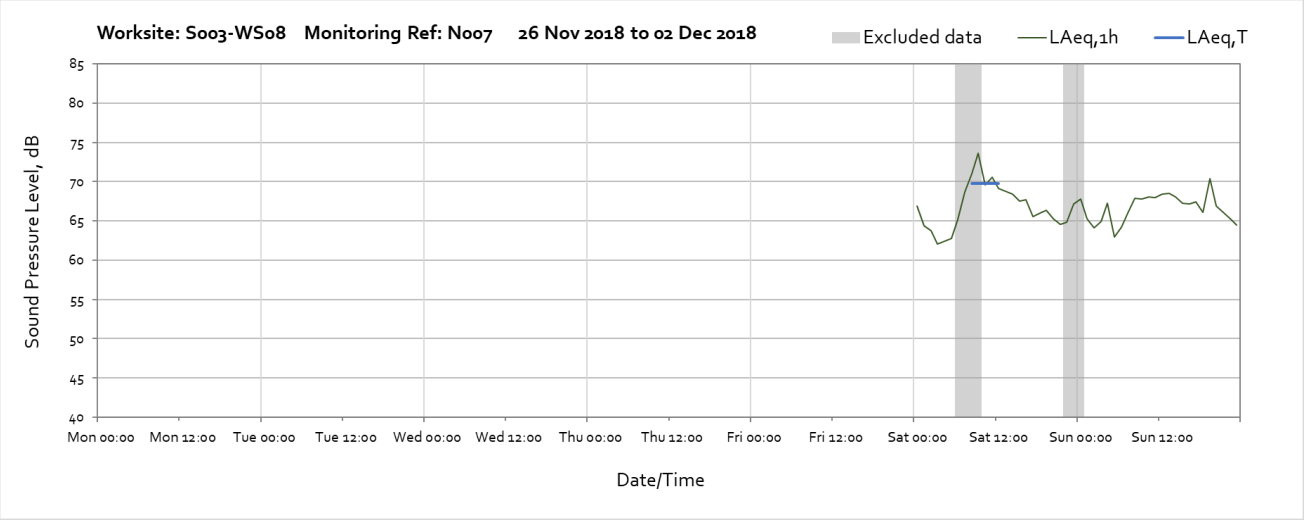
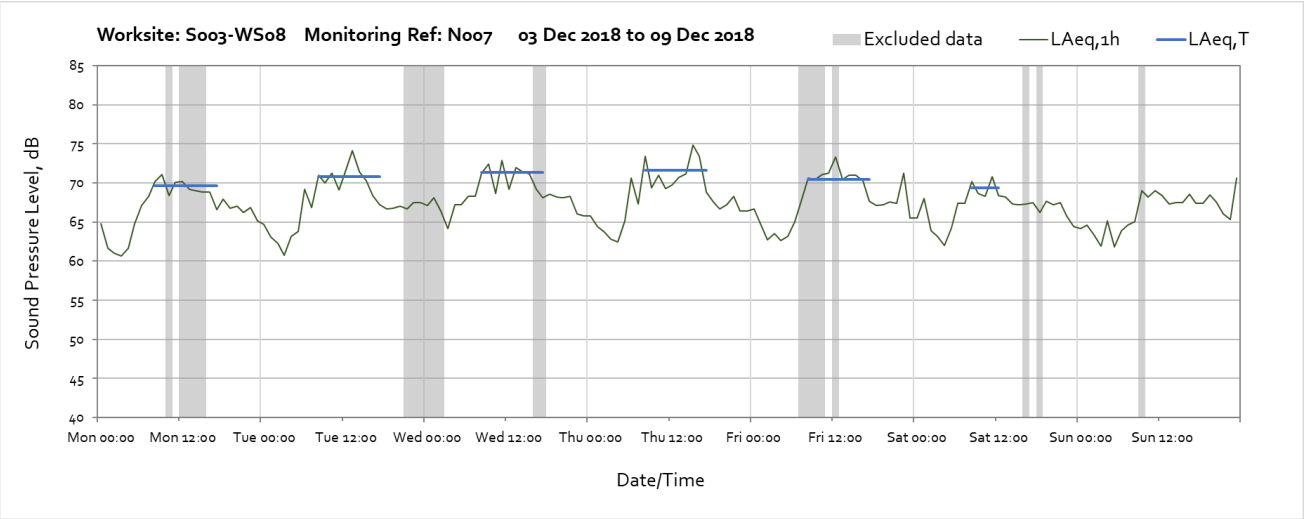
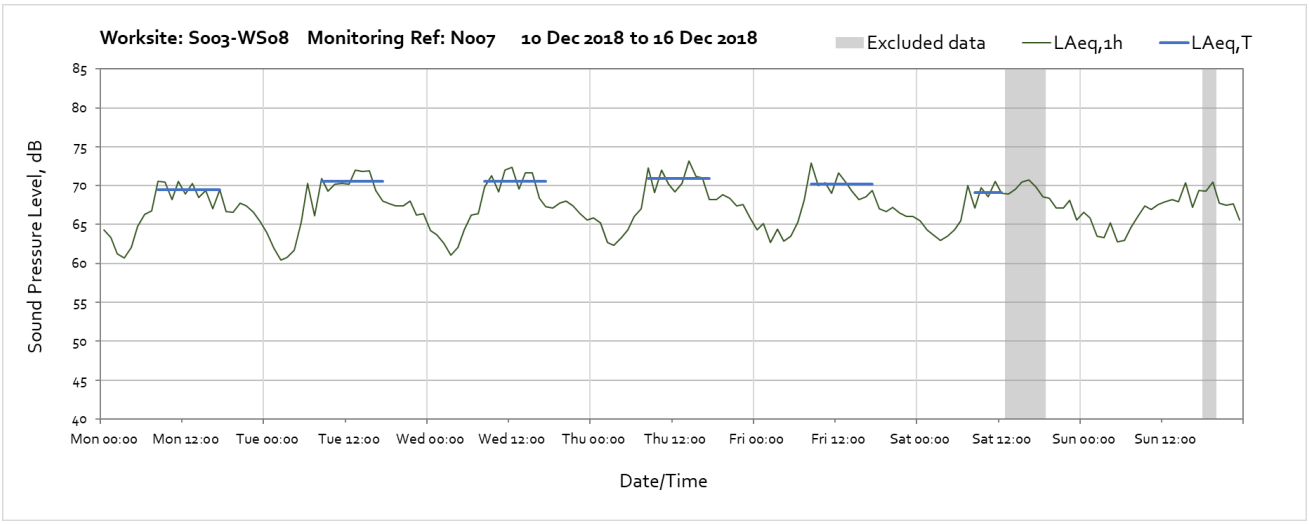


Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Worksite: S003-WS08 – Monitoring Ref: N007






Worksite: S003-WS08 Monitoring Ref: N007 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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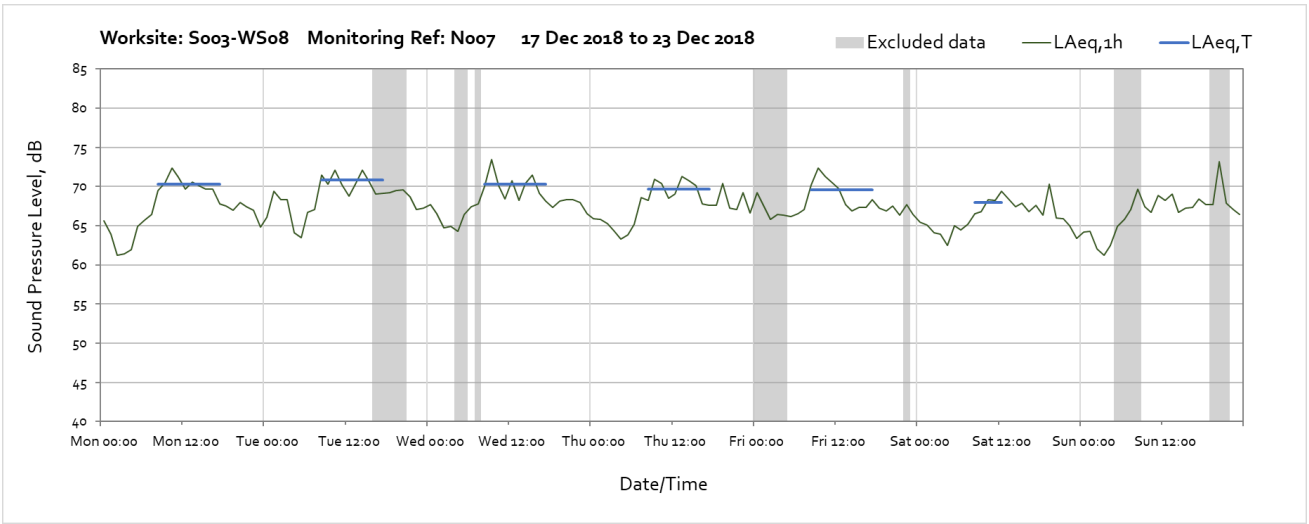
Date/Time


Worksite: S003-WS08 Monitoring Ref: N007 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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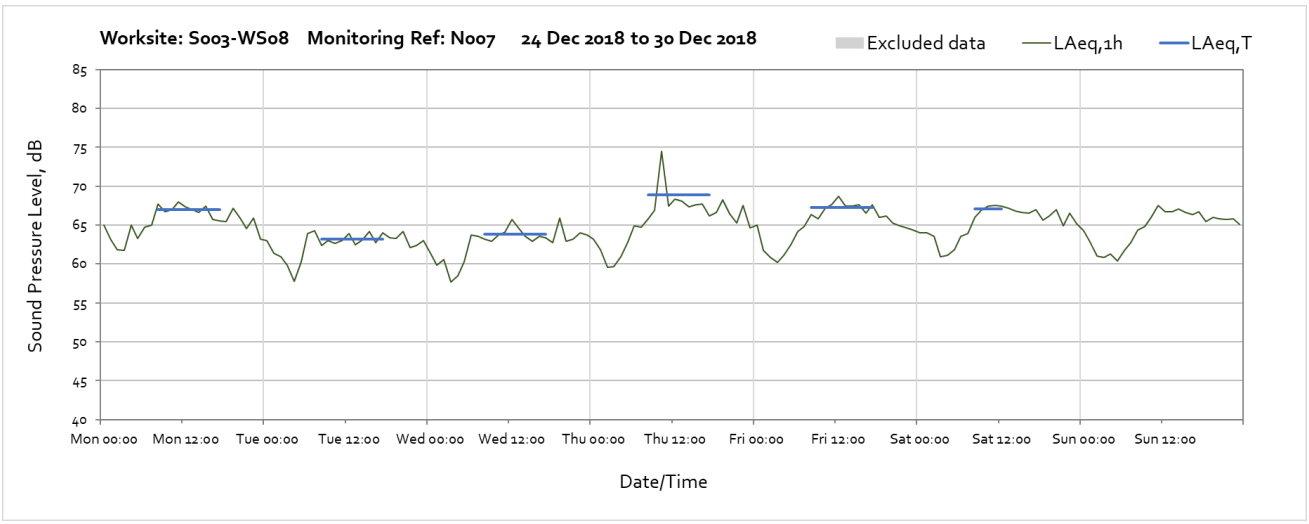
Date/Time


Worksite: S003-WS08 Monitoring Ref: N007 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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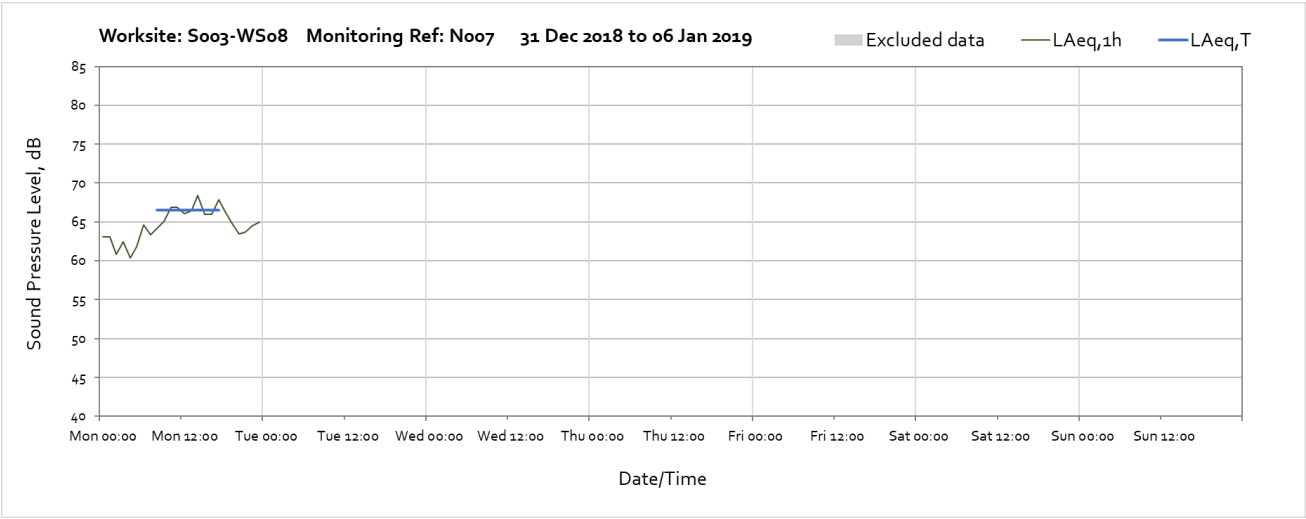
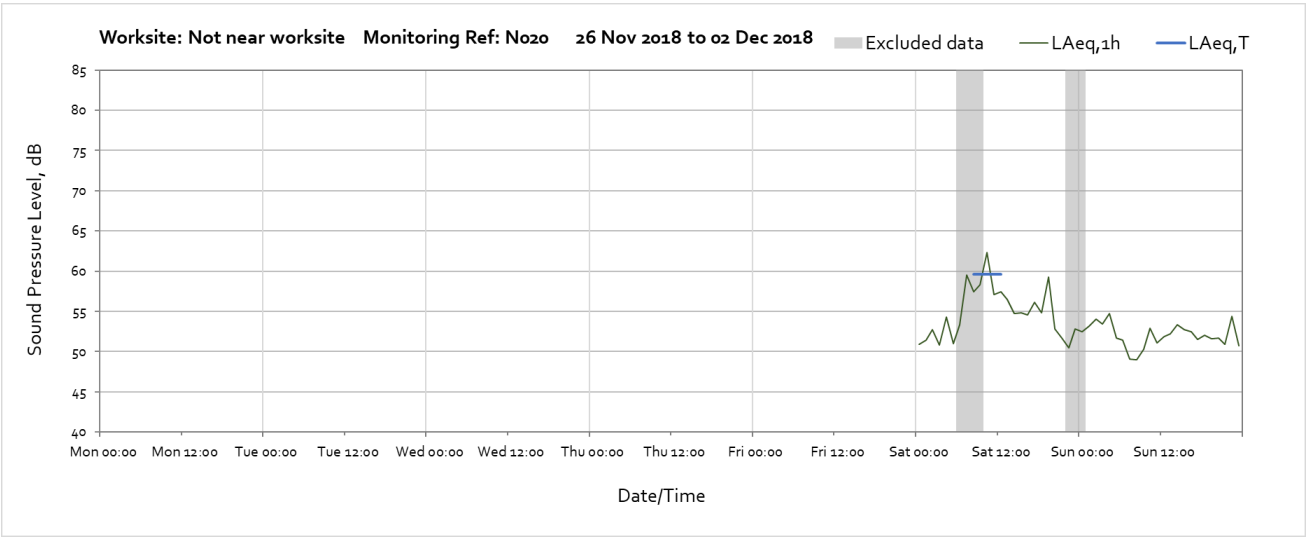
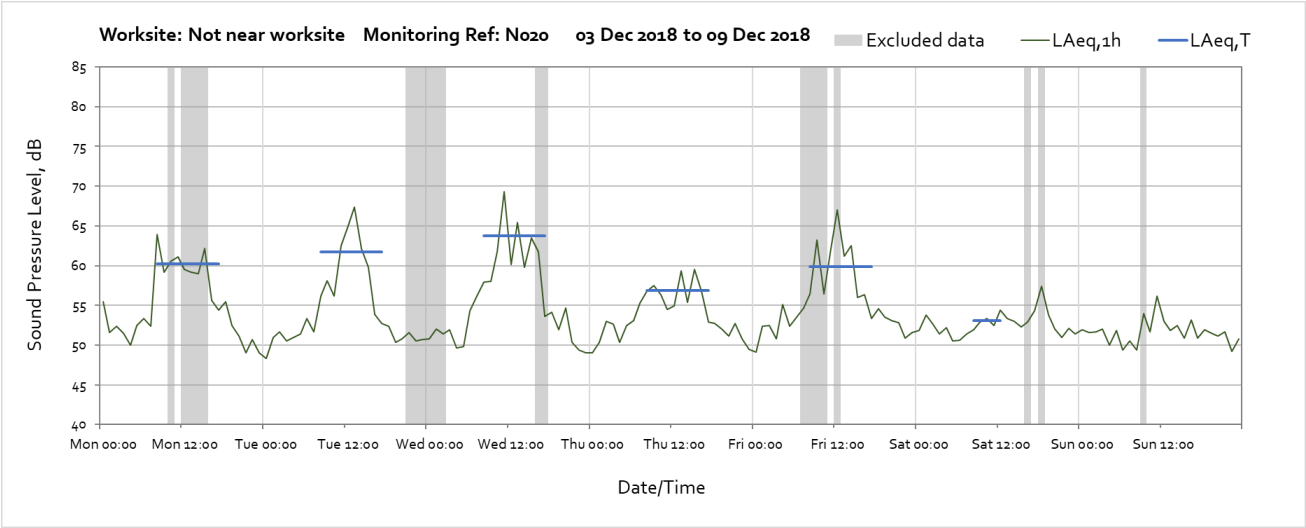
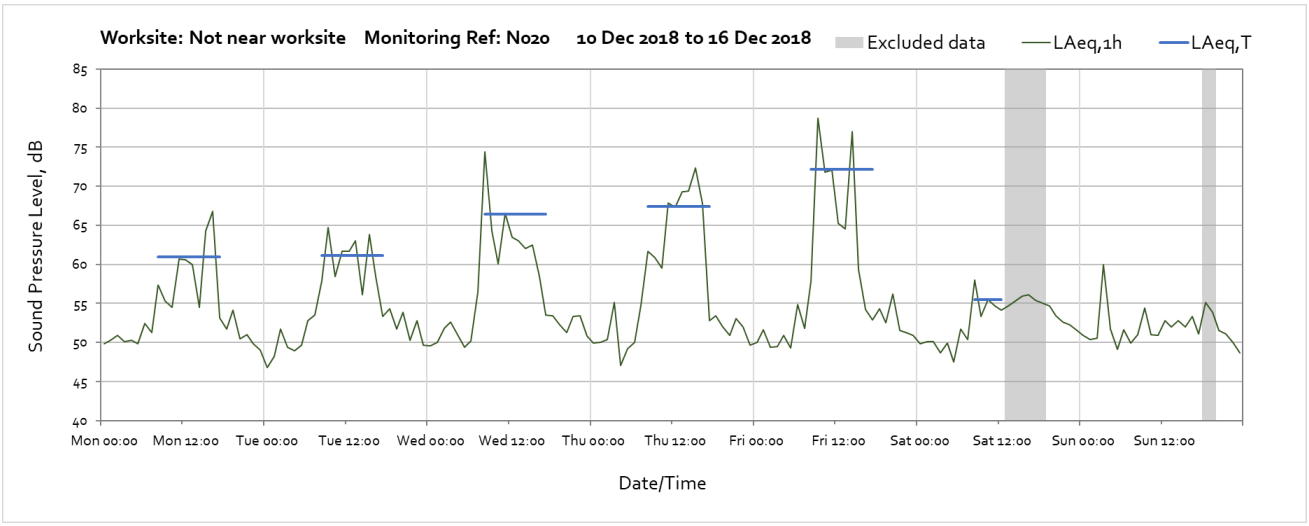
Date/Time



Monitoring Ref: N020






Worksite: Not near worksite Monitoring Ref: No20 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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65
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Mon 00:00
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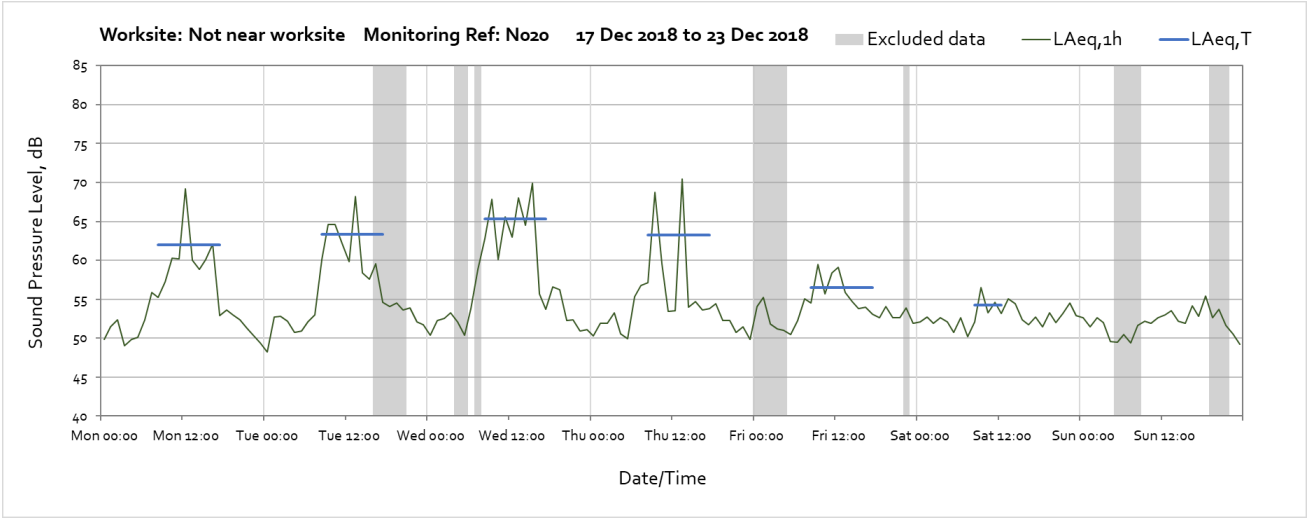
Date/Time


Worksite: Not near worksite Monitoring Ref: No20 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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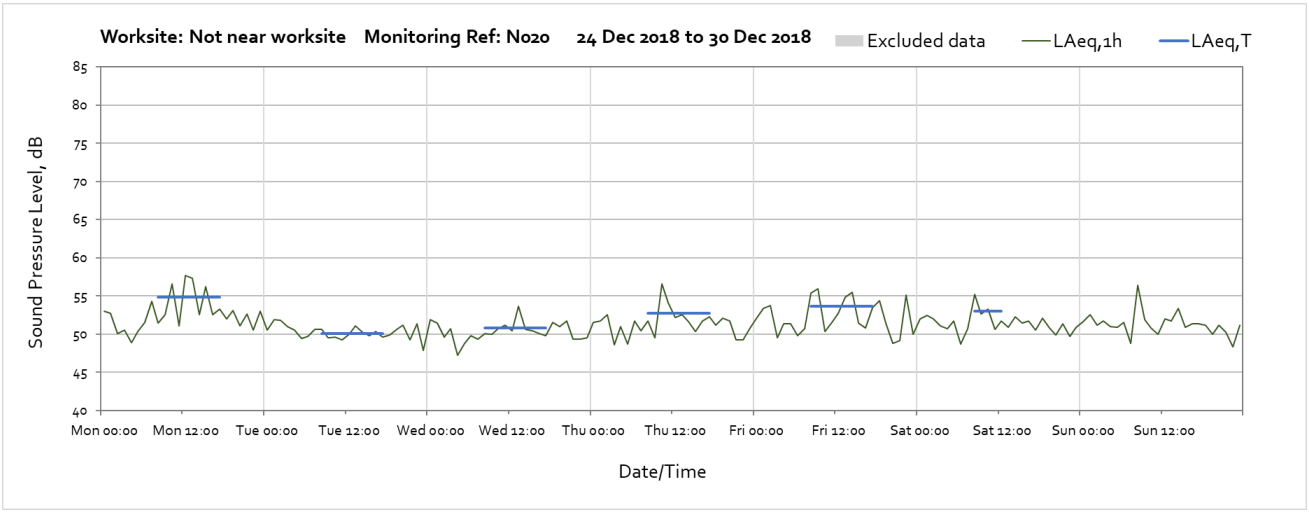
Date/Time


Worksite: Not near worksite Monitoring Ref: No20 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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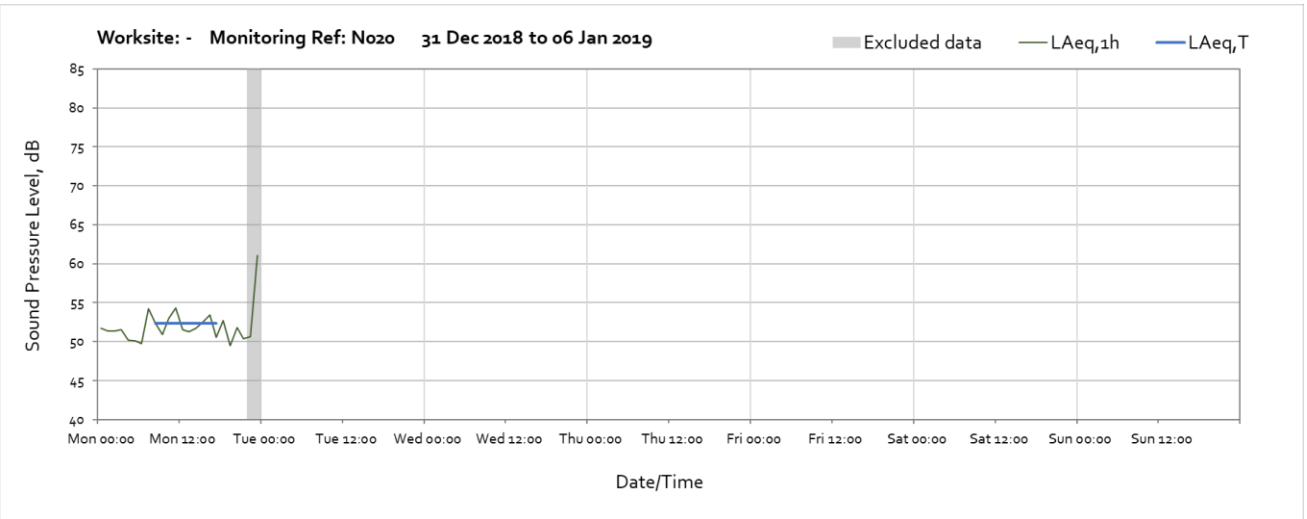
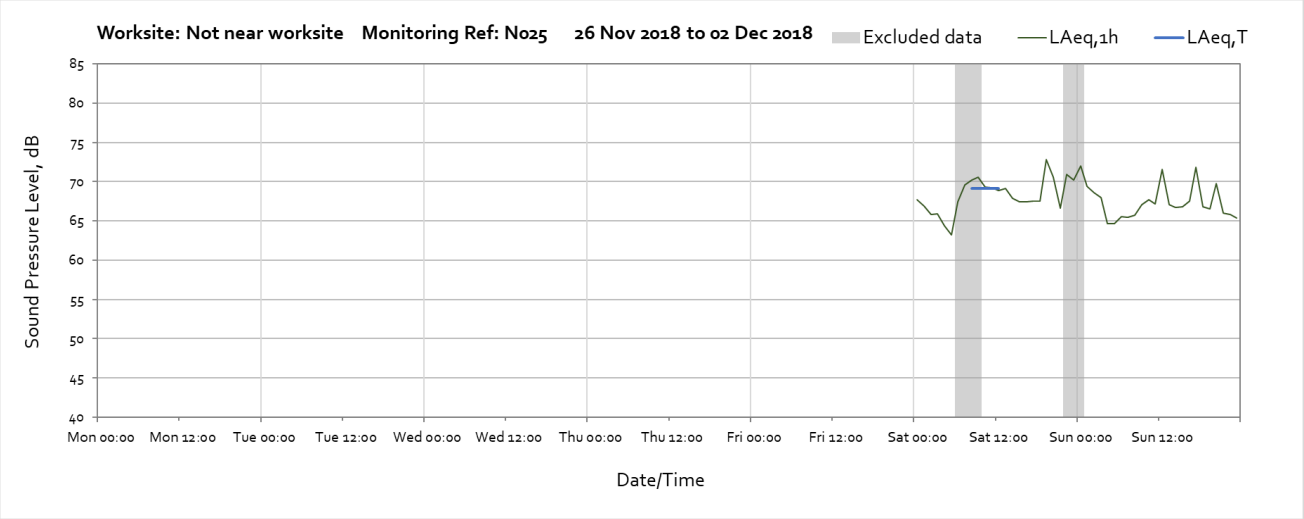
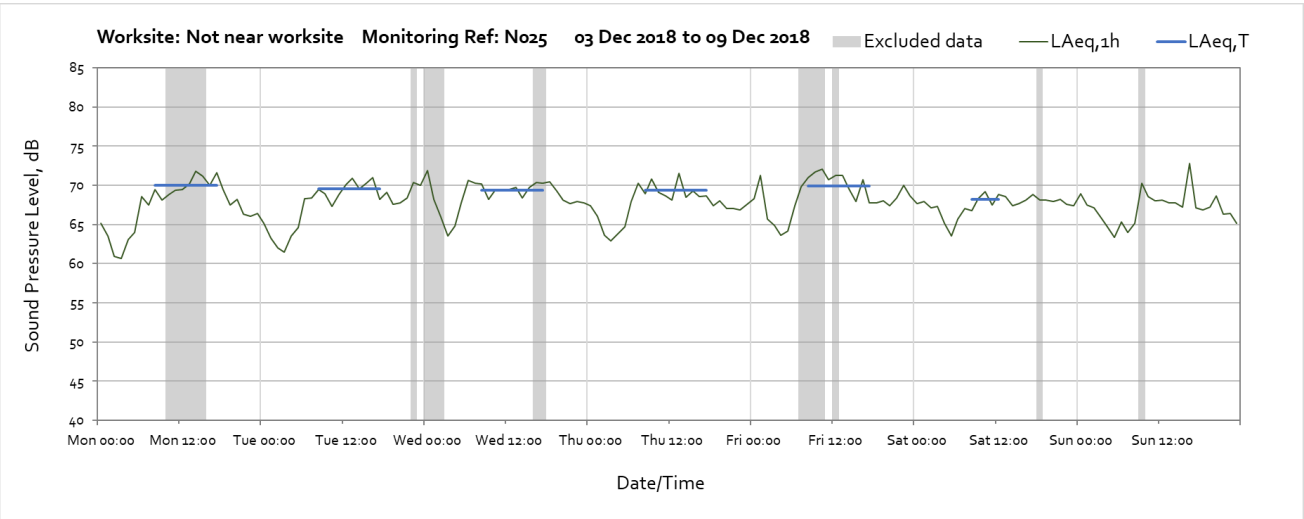
Date/Time

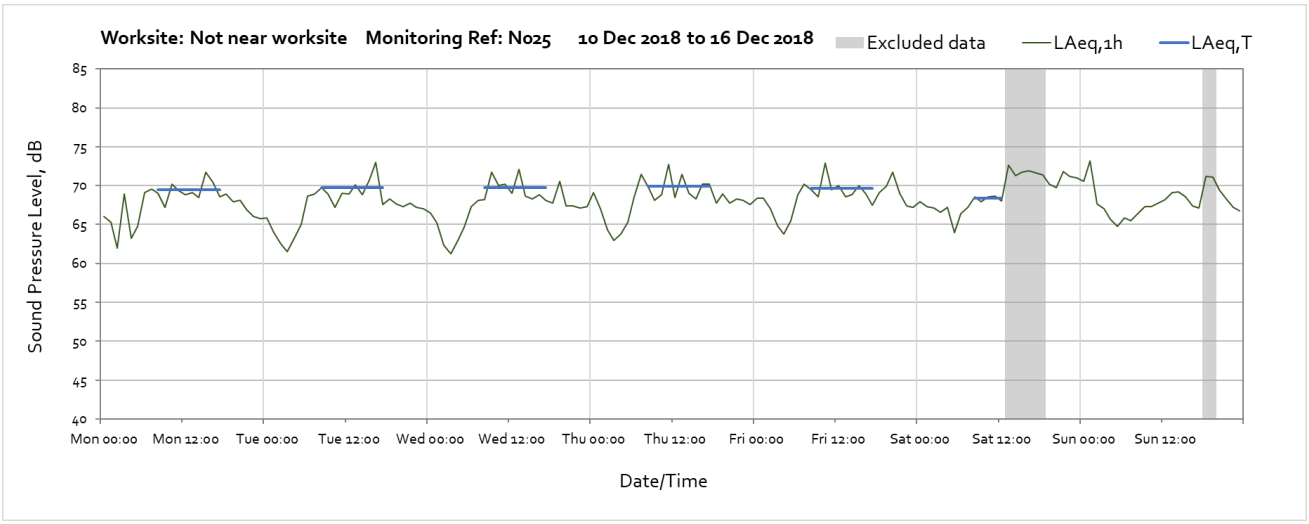


Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Monitoring Ref: N025






Worksite: Not near worksite Monitoring Ref: No25 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
80
75
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65
60
55
50
45
40
Mon 00:00
Mon 12:00
Tue 00:00
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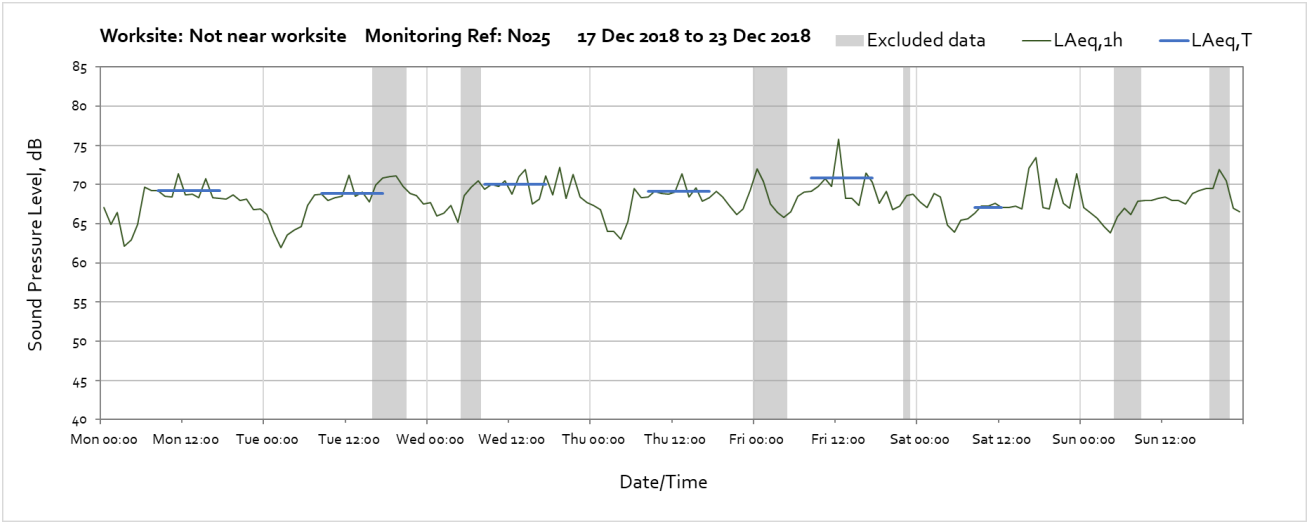
Date/Time


Worksite: Not near worksite Monitoring Ref: No25 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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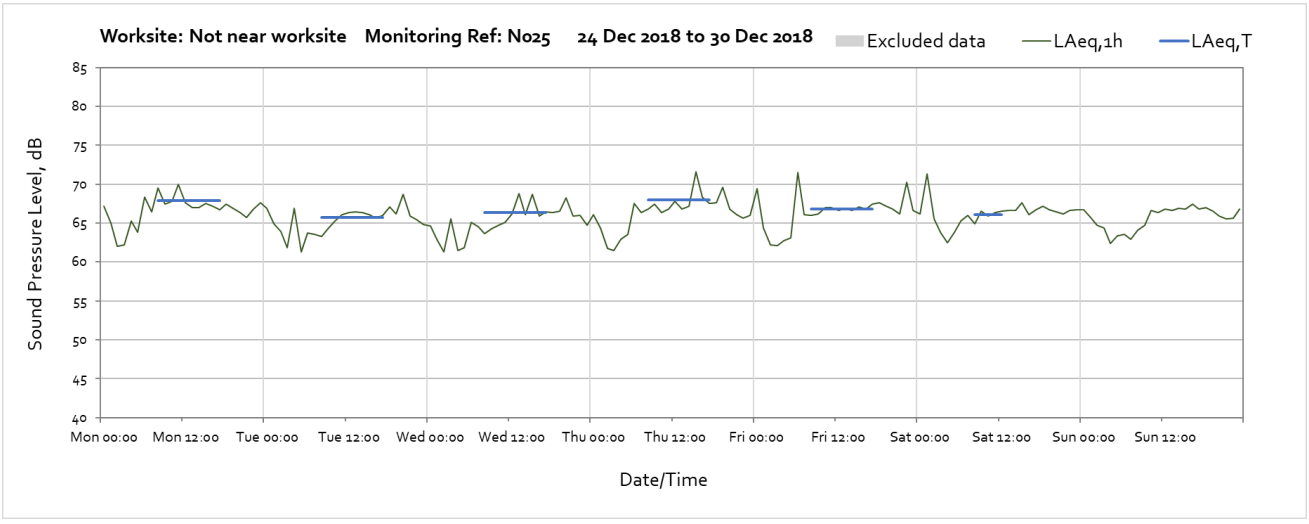
Date/Time


Worksite: Not near worksite Monitoring Ref: No25 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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65
60
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Mon 00:00
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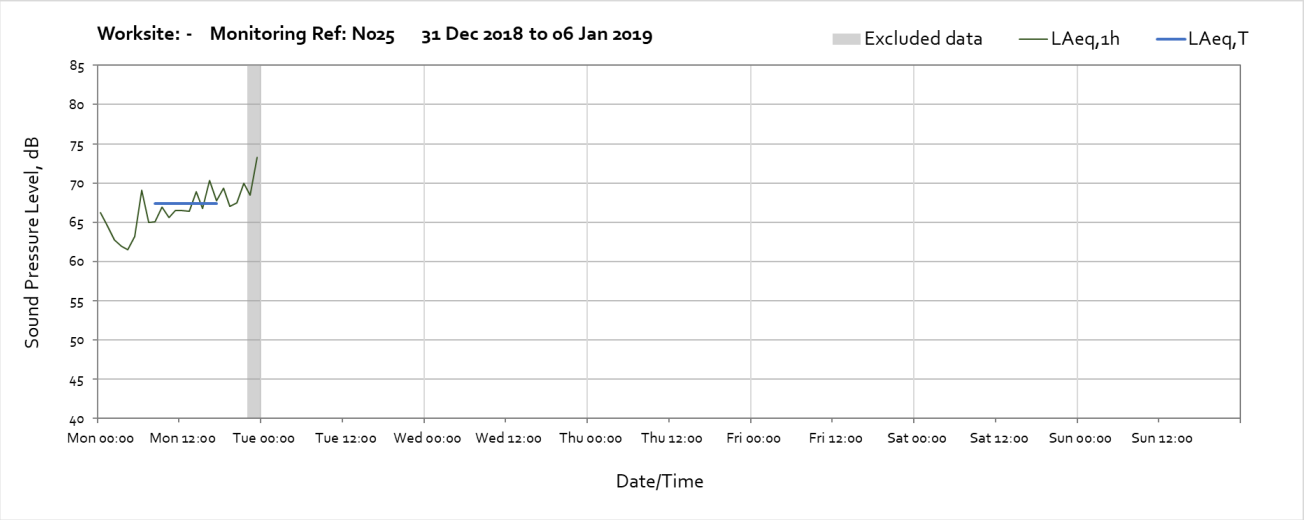
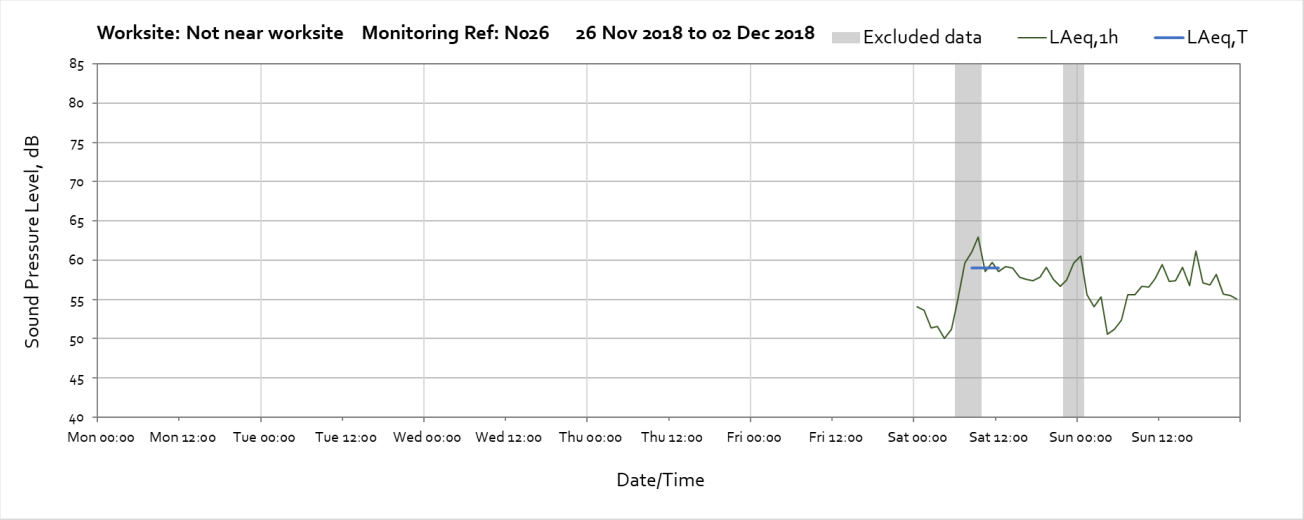
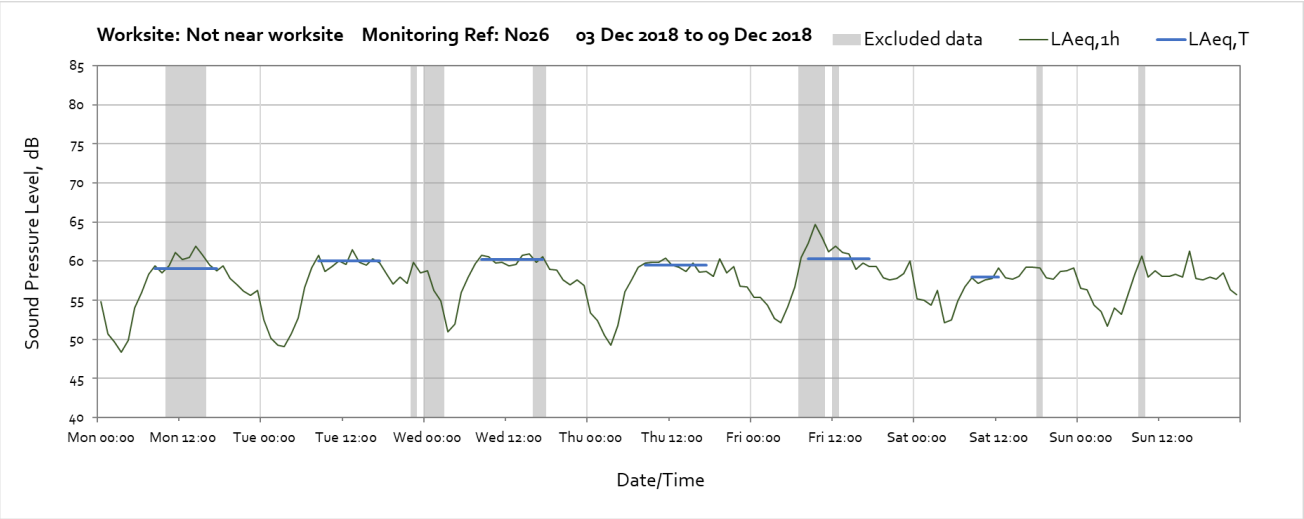
Date/Time

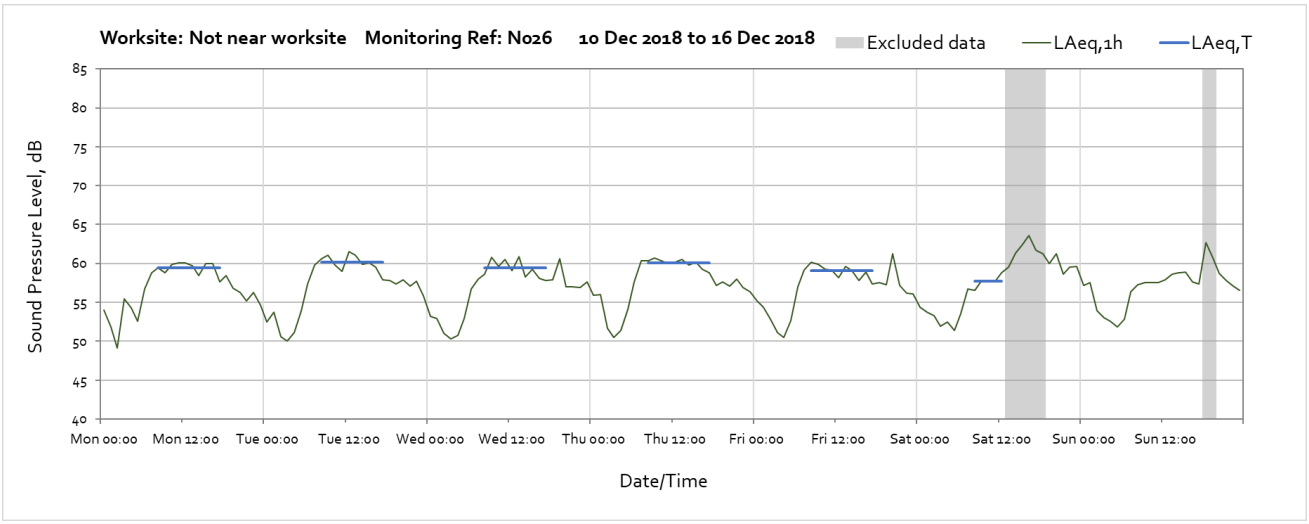


Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

Monitoring Ref: N026






Worksite: Not near worksite Monitoring Ref: No26 10 Dec 2018 to 16 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
85
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Mon 00:00
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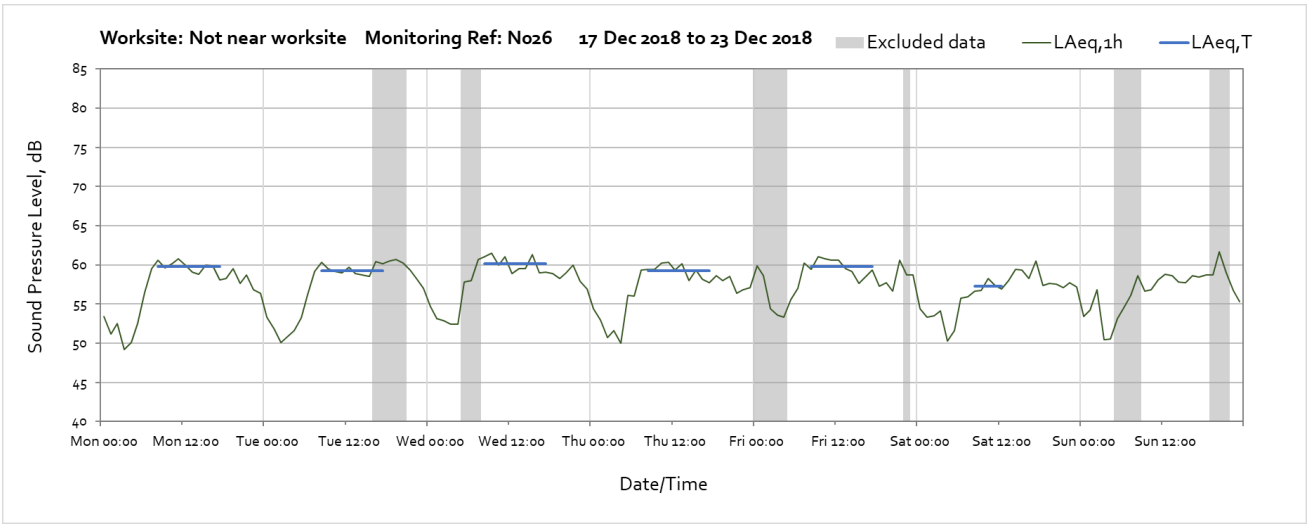
Date/Time


Worksite: Not near worksite Monitoring Ref: No26 17 Dec 2018 to 23 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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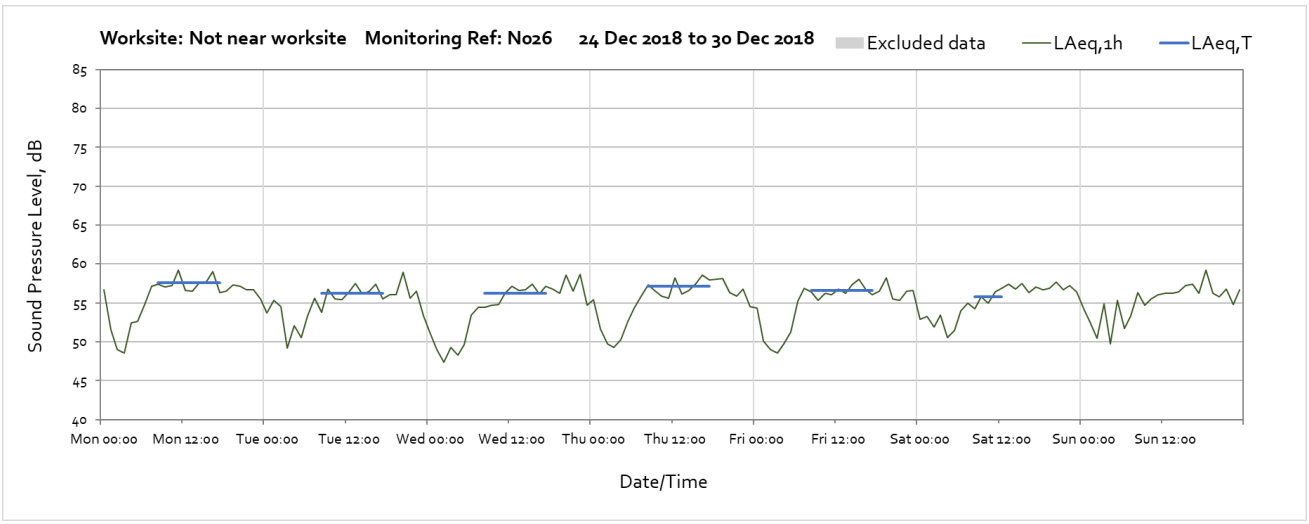
Date/Time


Worksite: Not near worksite Monitoring Ref: No26 24 Dec 2018 to 30 Dec 2018
Excluded data
LAeq,1h
LAeq,T
Sound Pressure Level, dB
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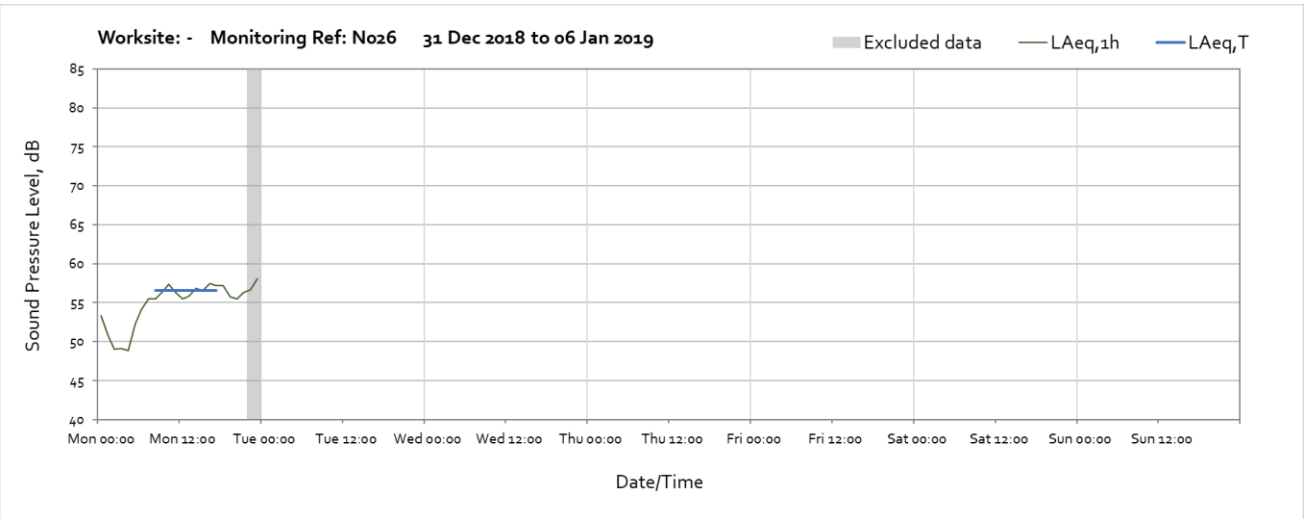
Sun 12:00
Date/Time

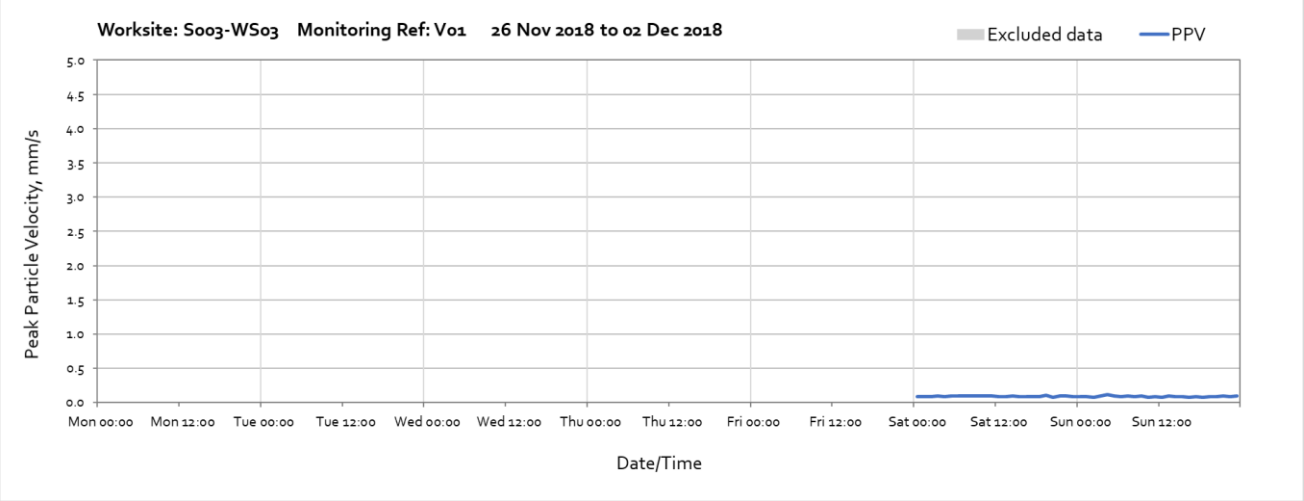


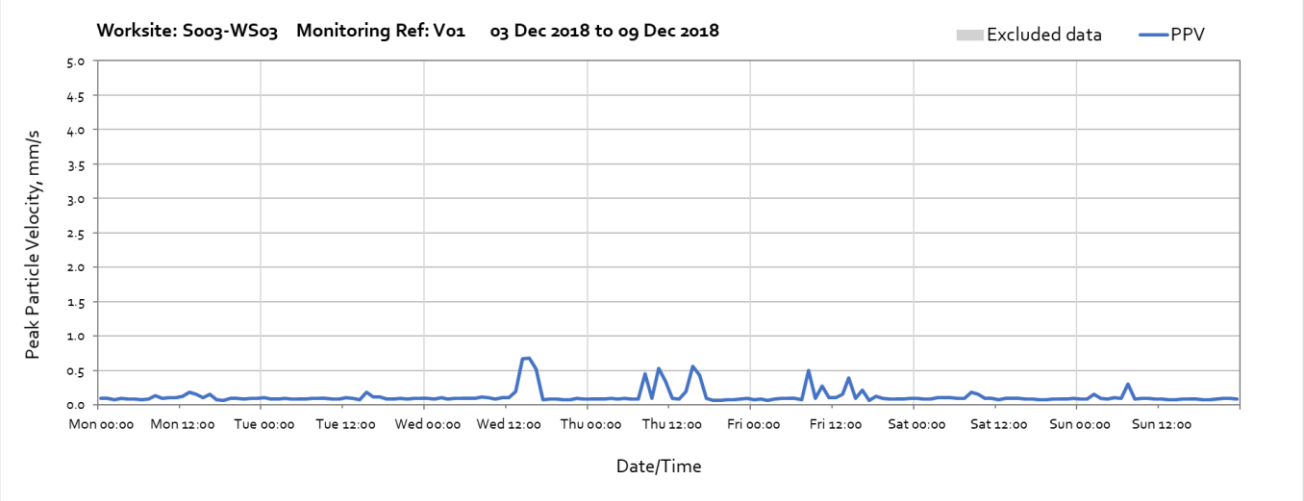
Note – High noise levels on the night of the 31st December were due to New Year's Eve celebrations and have been excluded to calculate values in Table 5.

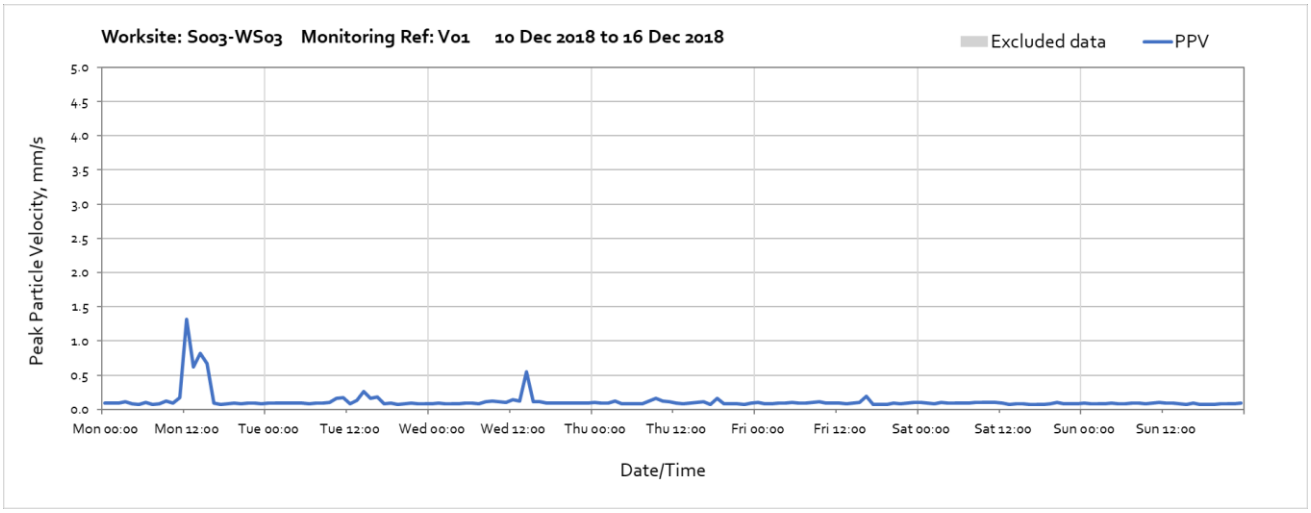
Vibration

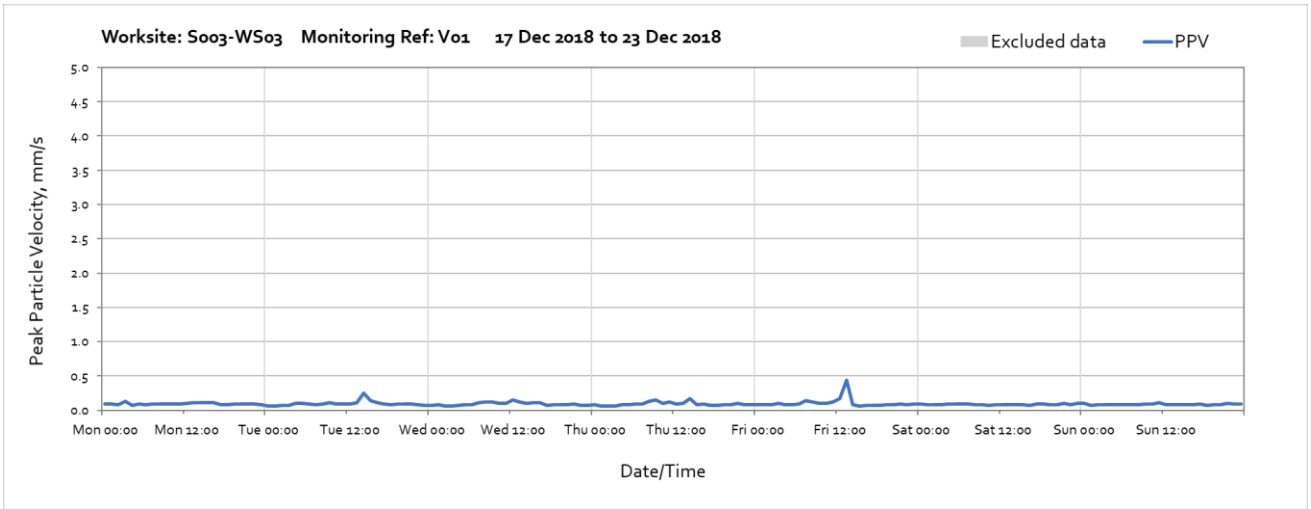
The following graphs show the hourly measured peak particle velocity PPV recorded during the monitoring period. The graphs show the resultant PPV due to vibration components on three orthogonal axis x, y and z.

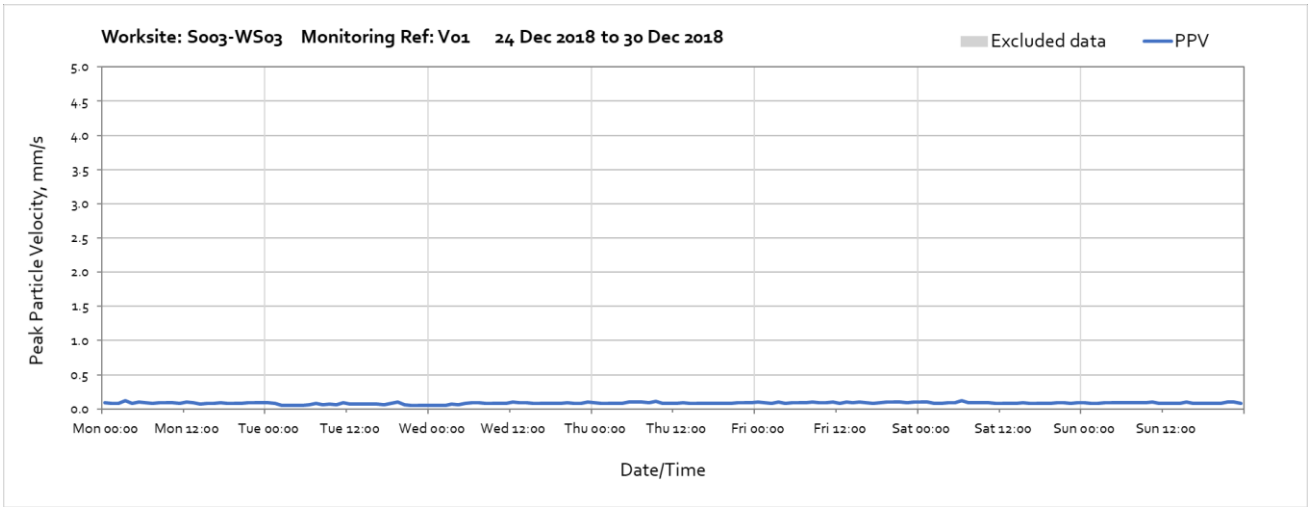
Worksite: S003-WS03 – Monitoring Ref: V01

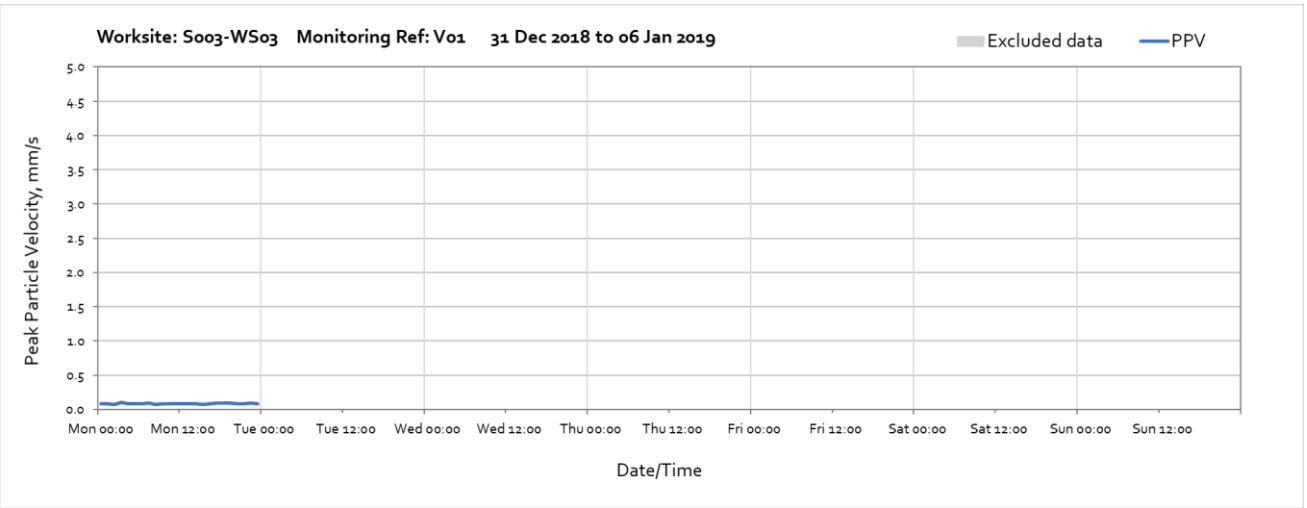




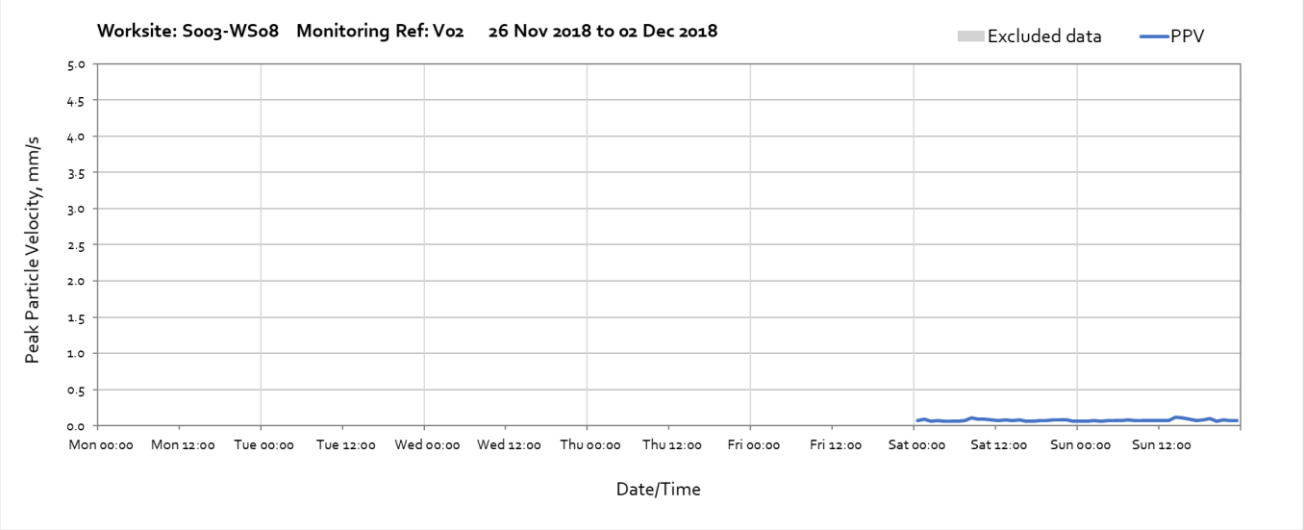

Worksite: S003-WS03 Monitoring Ref: V01 10 Dec 2018 to 16 Dec 2018
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

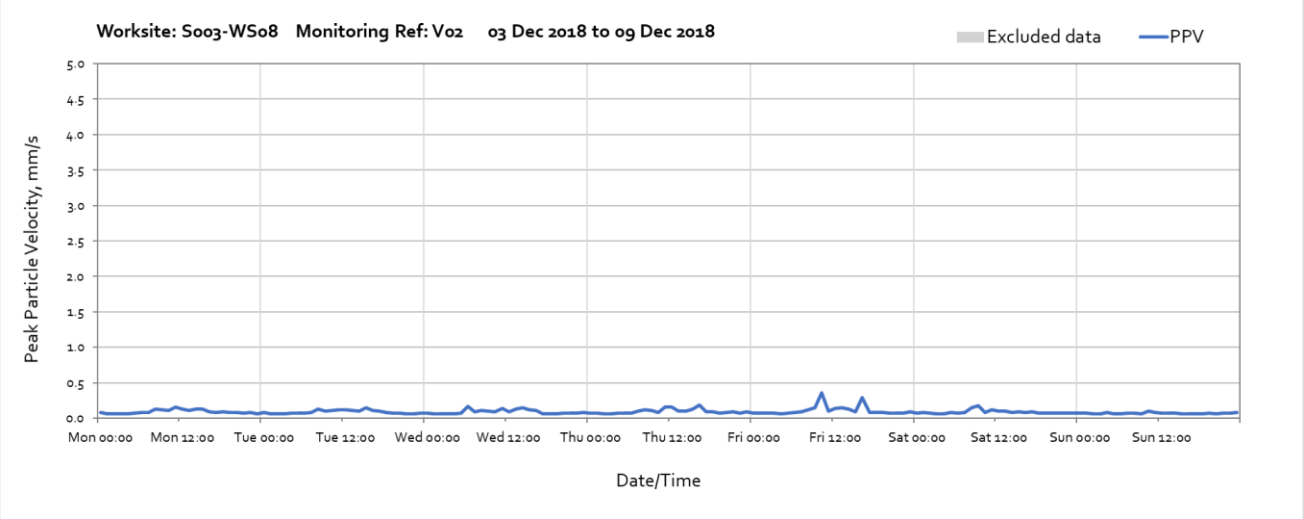

Worksite: S003-WS03 Monitoring Ref: V01 17 Dec 2018 to 23 Dec 2018
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time

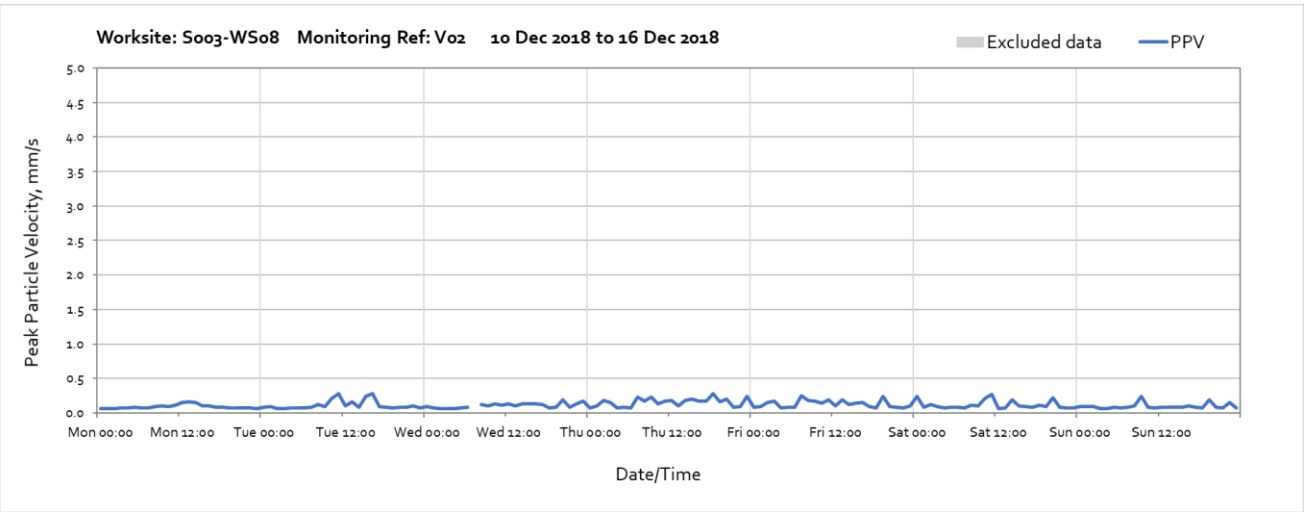

Worksite: S003-WS03 Monitoring Ref: V01 24 Dec 2018 to 30 Dec 2018
Excluded data
PPV
Peak Particle Velocity, mm/s
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Mon 00:00
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
Sun 12:00
Date/Time



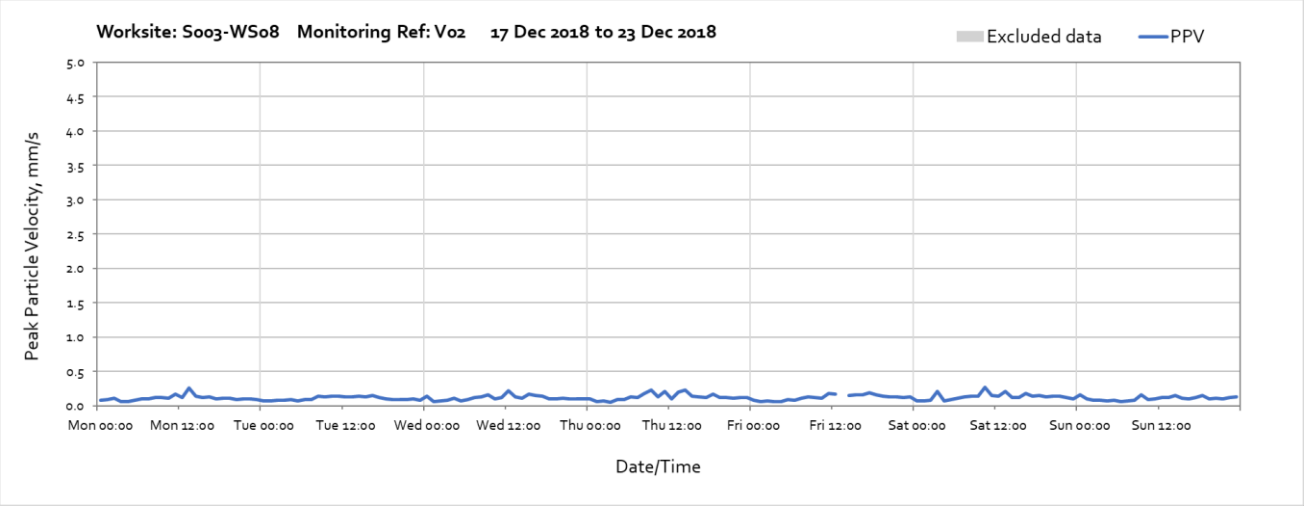
Worksite: S003-WS08 – Monitoring Ref: V02



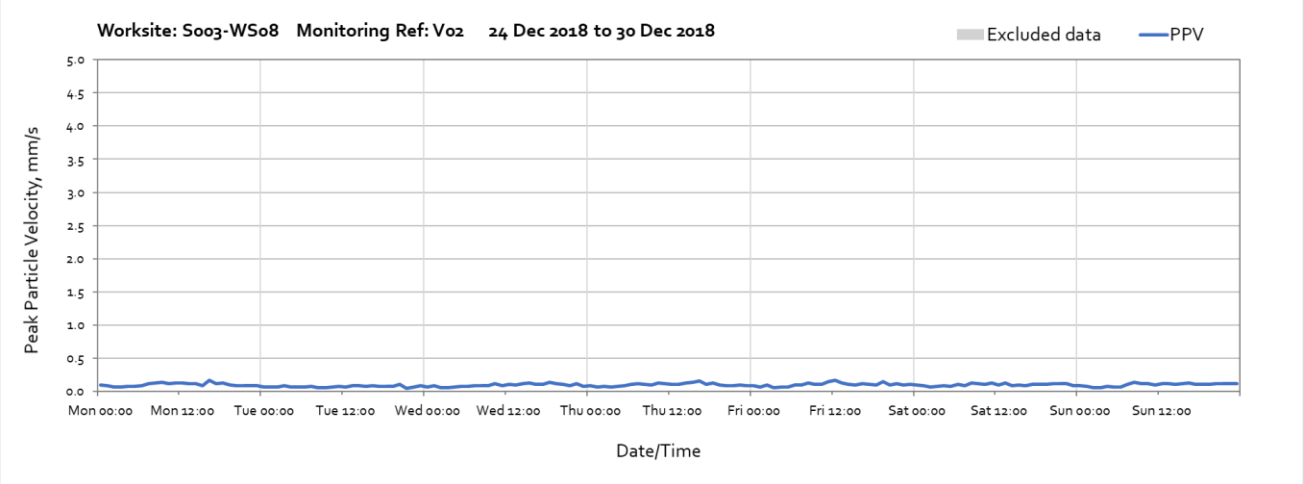


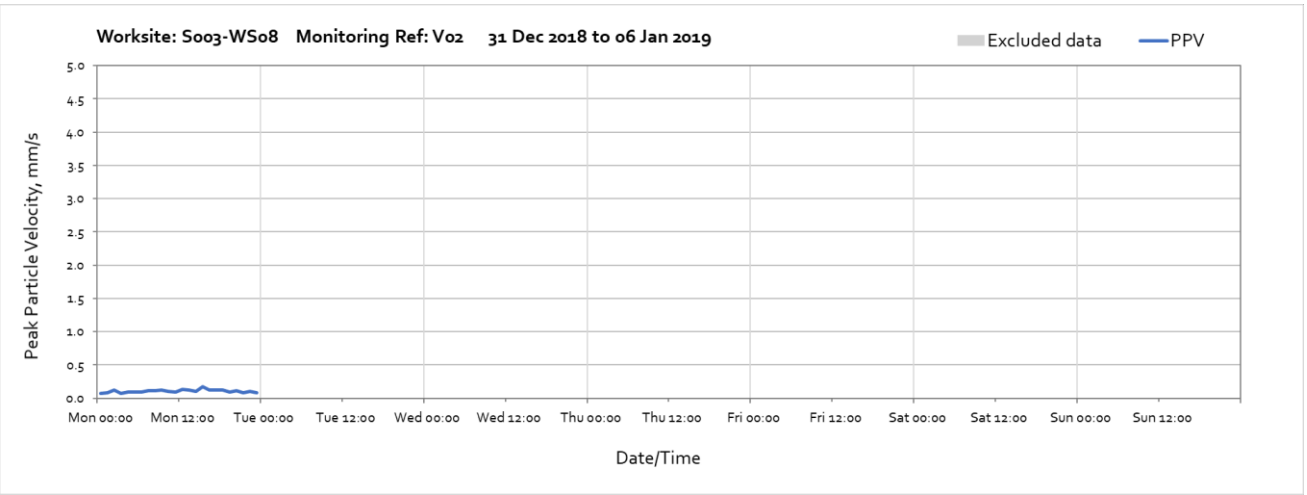


Note – Missing data at 07:00 on Wednesday 12th was during handling of the vibration monitor.

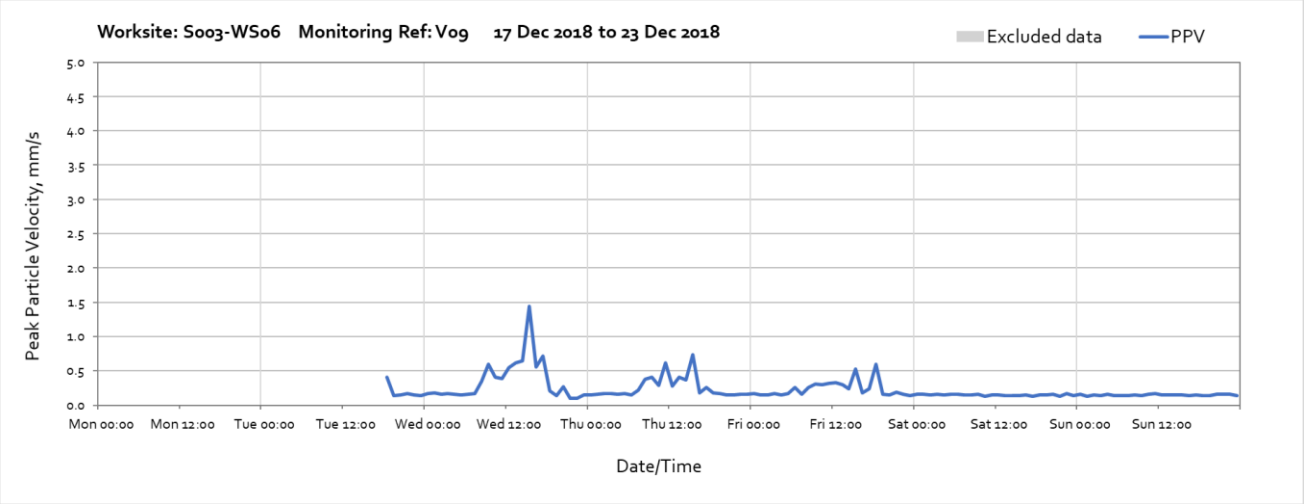


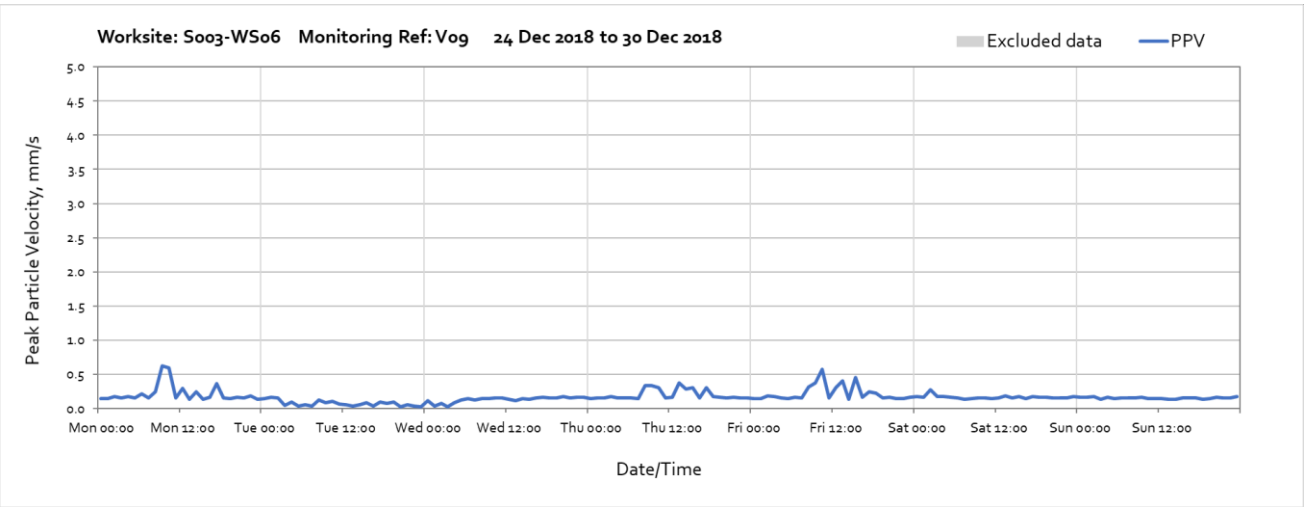
Note – Missing data at 13:00 on Friday 21st were during handling of the vibration monitor.

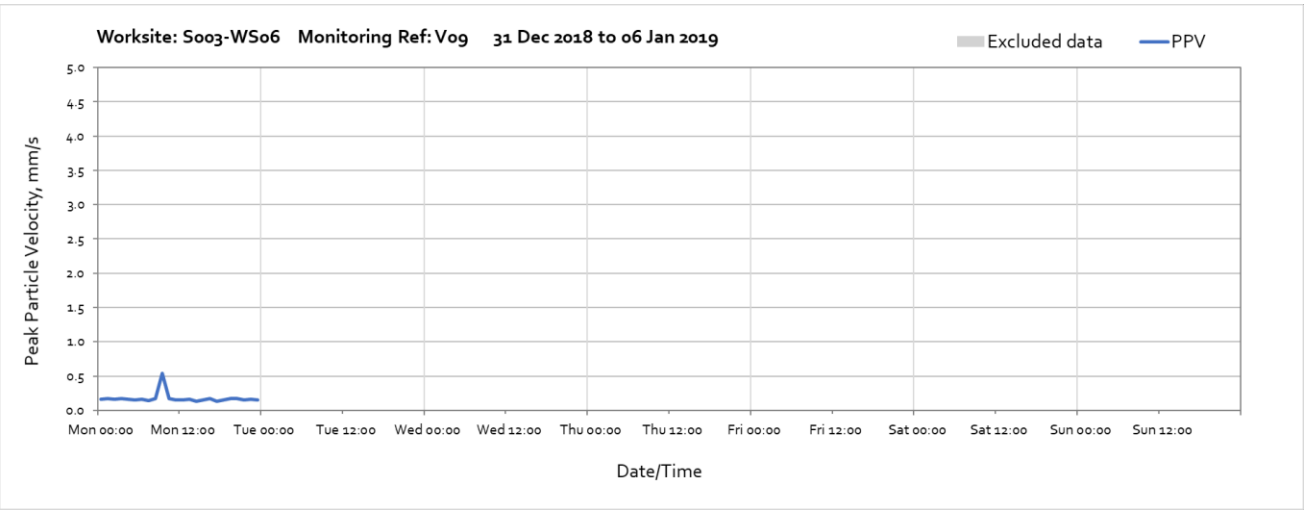




Worksite: S003-WS06 – Monitoring Ref: V09






Worksite: S003-WS06 Monitoring Ref: V09 31 Dec 2018 to 06 Jan 2019
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