



APPENDIX 5 NOISE ASSESSMENT

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referred to in Council's Decision Notice dated

8 April 2026

This plan is subject to conditions of Approval Number

MCUI/2025/438

Assessment Manager

Noise Impact Assessment

919 Clifton Pittsworth
Road, North Branch

CLIENT: ALPAIR PTY LTD

PROJECT NO.	J002170
STATUS	FINAL
DATE	15/11/2024

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Document Control

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2.	Final Report (Response to Client's comments – J002061)	MJW	RJM	RJM	4/09/2024
3.	Final Report (Revised site plans)	MJW	RJM	RJM	15/11/2024

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1 Introduction

Range Environmental Consultants (Range Environmental) was engaged by Alpair Pty Ltd (hereafter 'the Client') to conduct a noise impact assessment for a proposed poultry (chicken) rearing farm at 919 Clifton Pittsworth Road, North Branch (hereafter 'the site') (Figure 1). The site is formally described as Lot 1745 A34901 and is located in the Toowoomba Regional Council (TRC) Local Government Area (LGA).

The proposed development will form an extension to the existing McLean Farms which is comprised of Lot 1 RP77752, Lot 2 RP72658, Lot 1220 AG2988, and Lots 1 & 2 on RP94672 (Figure 1).

This noise impact assessment was undertaken to address the following to support a development approval (DA) application and an environmental authority (EA) application for Environmentally Relevant Activity (ERA) 4 Poultry farming:

- Performance Outcome 8 (PO8) and PO13 of the Environmental Standards Code under the Toowoomba Regional Planning Scheme (TRPS) 2012 (v28).
- The Department of Environment, Science and Innovation's (DESI) Guideline for application requirements for activities with noise impacts (ESR/2015/1838, Version 3.08).

2 Project Description

2.1 Site Description

The site is located at 919 Clifton Pittsworth Road, North Branch and is formally described as Lot 1745 A34901. The site is zoned as Rural under the TRPS 2012 (v28) and is currently used for agricultural use.

The surrounding zoning and land uses included:

- North: Rural (grazing and cropping activities).
- East: Rural (McLean Farms).
- South: Rural (McLean Farms).
- West: Rural (cropping activities).

The key existing noise sources in the local area surrounding the proposed development site included distant mechanical noise from the existing poultry sheds within McLean Farms and wild birds.

2.2 Proposed Development

The proposed development will consist of the following infrastructure to accommodate approximately 400,000 birds (chickens) (Appendix A):

- Ten (10) poultry sheds.
- Gravel turnaround areas and access road.
- Vegetative buffer.

2.3 Hours of Operation

The proposed development will form an extension to the existing McLean Farms which currently operates from 5:00am to 7:00pm, Monday to Friday and 6:00am to 10:00am on weekends and public holidays. There are no proposed changes to the operating times of McLean Farms as a part of this extension.

2.4 Operational Noise Sources

Key noise sources from the proposed development considered in this assessment include:

Variable Noise Sources (L_{Aeq})

- Breakout noise from the sheds (i.e., chicken noise).
- Mechanical plant (including exhaust fans, manure conveyor belts, diesel-powered generators, and air-conditioning units).
- Light vehicle movements.
- Heavy vehicle movements.
- Tractor movements.
- Reverse beepers.

Continuous Noise Sources (L_{A90})

- Mechanical plant (including exhaust fans and air-conditioning units).

Discrete Noise Sources (L_{Amax})

- Reverse beepers on mobile plant and vehicles.
- Car door closures.

2.5 Noise Sensitive Receptors

The nearest most potentially affected noise sensitive receptors are shown in Figure 2 and are described at Table 1.

Table 1 Noise sensitive receptors

Receptor	Real Property Description	Street Address	Receptor Type
Receptor 1	Lot 832 A34617	55 Kincora Road, Scrubby Mountain	Existing dwelling
Receptor 2	Lot 1 RP859811	55 Kincora Road, North Branch	Existing dwelling



Figure 2
Noise sensitive
receptors

Project: Noise
Impact Assessment

Client: Alpair Pty Ltd

Project No.: J002170

Compiled by: MJW Date: 3/09/2024
Approved by: RJM Date: 3/09/2024

0 175 350 Metres

- Legend**
- Cadastre
 - Roads
 - Site Boundary
 - Logger location
 - Noise sensitive receptors

The content of this document includes third party data. Range Environmental Consultants does not guarantee the accuracy of such data.
Source: Cadastral data sourced from DNRME (2023).



3 Unattended Ambient Noise Measurements

3.1 Noise Measurement Standard

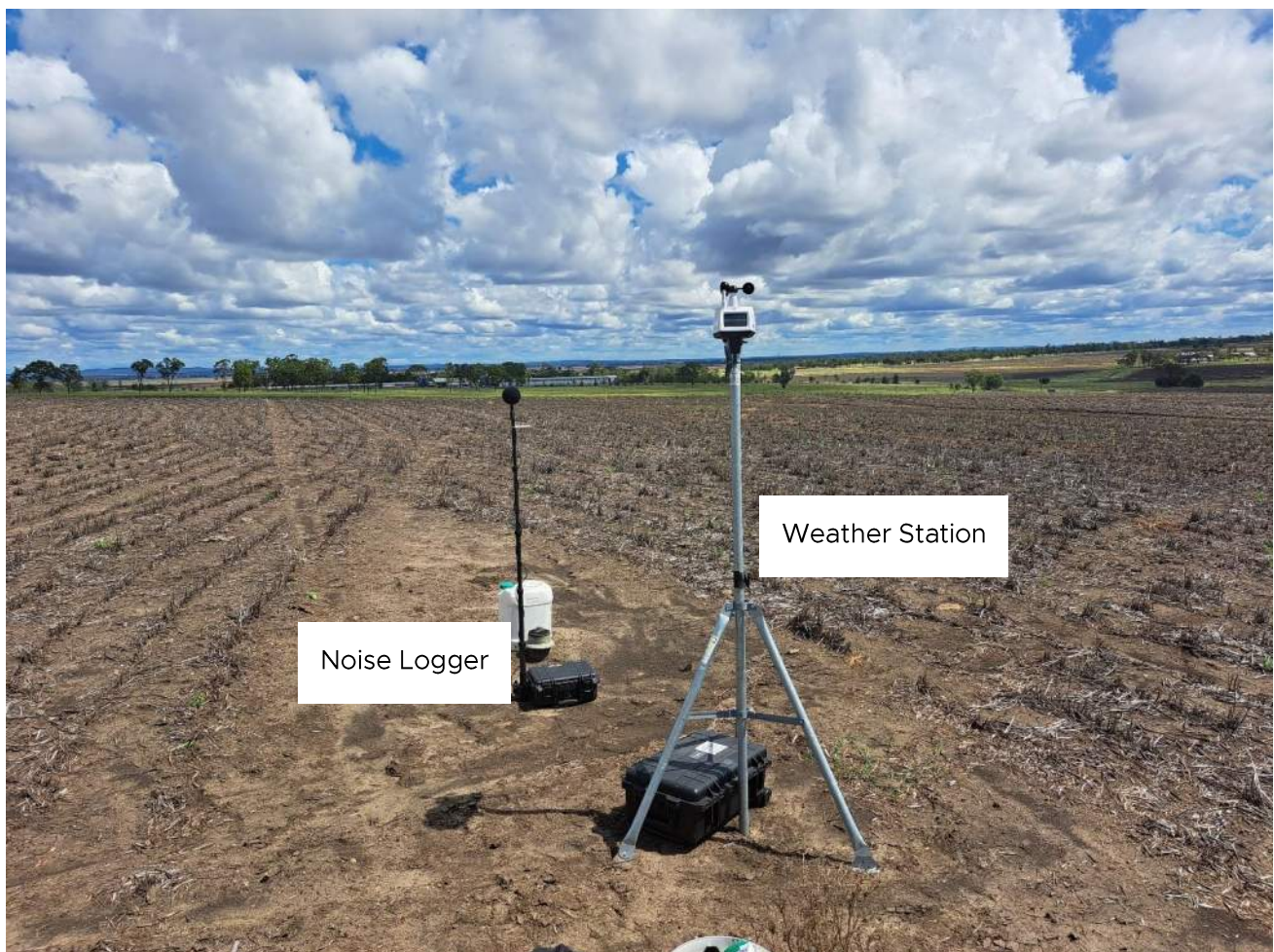
The ambient noise survey was undertaken in accordance with Australian Standard *AS1055:2018 - Acoustics - Description and measurement of environmental noise* and the Department of Environment, Science and Innovation's (DESI) Noise Measurement Manual 2020. Ambient noise levels were recorded from 5 March 2024 to 13 March 2024. The noise measurement method recorded total noise levels at the site from all noise sources.

3.2 Noise Logger

A Larson Davis LxT sound level meter was used for the ambient noise survey. The instrument was calibrated before and after the logging session and was found to match the reference signal. The instrument and the calibrator hold current calibration certificates from a NATA certified calibration laboratory.

3.3 Noise Logger Location and Siting

The microphone of the noise logger was situated 1.5 m above ground level and in a free field position (Photograph 1). The location of the noise logger in relation to the site boundary and nearby noise sensitive receptors is shown in Figure 2. The noise logger was sited at this location to provide a representative background noise level of the nearest sensitive receptors.



Photograph 1 View to the south of the noise logger and weather station in position at the site

3.4 Instrument Settings

The following instrument settings were used for the unattended ambient noise survey:

- 'A' frequency weighting.
- 'Fast' time weighting.
- 15-minute sample integration time.

3.5 Weather Conditions

Weather conditions during the monitoring period were recorded with one (1) Davis Vantage Vue site-specific weather station (Photograph 1). Elevated wind speeds of >5m/s were recorded for seven (7) out of the nine (9) days of the monitoring period (Appendix B). Noise levels from 8-11 March appeared to be significantly affected by these elevated wind speeds (Appendix C).

3.6 Ambient Noise Levels

Ambient noise survey data average values are summarised in Table 2 for 5-6 & 12-13 March. Data from 7-11 March was removed due to onsite farming activities being undertaken from 7-8 March and elevated wind speeds of >5m/s significantly affecting data from 8-11 March. This approach was approved by Luke Jackson of Toowoomba Regional Council via email correspondence on 30 April 2024 due to the following:

- Data from 9-11 March was not suitable to represent the ambient noise levels of the local area as elevated wind speeds resulted in increased background noise level measurements (L_{A90}) (particularly for the daytime period).
- The topography of the local area positions the site in a “wind tunnel”. Site personnel confirmed that the area often experiences high winds. Due to these observations, it was considered unlikely that the undertaking of the monitoring again would result in more suitable data.
- Ambient noise survey data from 5-6 & 12-13 March is considered representative of a very rural area as the noise levels outlined below in Table 2 are comparable to the recommended background noise planning levels for a very rural area outlined at Table 1 of the planning for noise control guideline (EPA, 2004).

Ambient noise survey data average values for 5-6 & 12-13 March were affected by cicada noise between bands 3150-4000Hz inclusive. Therefore, the ambient noise survey data presented below at Table 2 was processed to exclude cicada affected data (when tonality was identified).

The following ambient noise survey data are presented graphically at Appendix C for the monitoring period:

- As measured ambient noise survey data at the site.
- Processed ambient noise survey data at the site to remove farming activity noise and wind affected data.
- Processed ambient noise survey data at the site to remove cicada affected data.

Table 2 Average ambient noise levels (5-6 & 12-13 March)

Time of Day	Measured noise level (dB) in $L_{Aeq,15min}$	Measured noise level (dB) in $L_{A90,15min}$	Background noise level (dB) in $minL_{A90,1hour}$ for a Very Rural Receiver Area (EPA, 2004)
Day (7am-6pm)	38	29	35
Evening (6pm-10pm)	35	29	30
Night (5am-7am) ¹	33	28	25

¹ Note – the average ambient noise levels provided for the night-time period only include noise logging data results from 5:00am to 7:00am as it is only during this ‘shoulder period’ of the night-time period that the site will be operational (Section 2.3). Therefore, the average of the logging data during this ‘shoulder period’ was utilised instead of the average of the entire night-time period (i.e., 10pm to 7am) to more accurately represent the background noise levels during the period in which the site will be operational.

4 Attended Operational Noise Measurements

4.1 Noise Measurement Standard

The attended operational noise survey was undertaken in accordance with Australian Standard *AS1055:2018 - Acoustics - Description and measurement of environmental noise* and the Department of Environment, Science and Innovation's (DESI) Noise Measurement Manual 2020. Operational noise levels were recorded on 5 March 2024. The noise measurement method recorded total noise levels at one of the Client's existing poultry sheds. The purpose of the attended measurements was to validate the noise source levels used in the noise modelling.

4.2 Noise Logger

A Larson Davis LxT sound level meter was used for the operational noise survey. The instrument was calibrated before and after the logging session and was found to match the reference signal. The instrument and the calibrator hold current calibration certificates from a NATA certified calibration laboratory.

4.3 Noise Logger Location and Siting

The microphone of the noise logger was situated 1.4 m above ground level and in a free field position (Photograph 2). The noise logger was sited at these locations to measure operational noise levels of the exhaust fans and the poultry shed with chickens inside.



Photograph 2 View of the noise logger at existing Shed 19

4.4 Instrument Settings

The following instrument settings were used for the attended operational noise survey:

- 'A' frequency weighting.
- 'Fast' time weighting.
- 15-minute sample integration time.

4.5 Weather Conditions

Weather conditions during the attended monitoring period were suitable for noise monitoring (i.e., no rainfall and wind speeds <5m/s). This was confirmed by field readings of wind speed and direction using a hand-held anemometer during the monitoring period.

4.6 Operational Noise Levels

Operational noise average values were measured as follows:

- Exhaust fans: 69 dB(A) L_{Aeq} at 6m on the side of the noise source.
- Shed breakout noise: 48 dB(A) L_{Aeq} at 10m at the centre of the shed.

Note – the above measured noise levels were not used in the noise modelling as specific noise specifications for the exhaust fans were provided. The above noise levels and locations of the monitoring were instead used to validate the predicted noise levels from the noise modelling.

5 Noise Assessment Criteria

The assessment criteria outlined below in Sections 5.1 and 5.2 were considered in the noise impact assessment. The most appropriate criteria to prevent background creep from occurring in the rural locality of the site from proposed variable and continuous noise sources are site-specific 'background +' criteria. Therefore, the relevant noise assessment criteria that were applied to this assessment are outlined at Sections 5.1.1, 5.1.2 and 5.1.3. However, the assessment criteria outlined at Section 5.1.4 was also addressed for the purposes of meeting the requirements of DESI's Guideline for application requirements for activities with noise impacts.

5.1 TRC Noise Assessment Criteria

PO8 and PO13 of the Environmental Standards Code of the TRPS 2012 (v28) are shown below.

PO₈ The generation of noise from the premises does not cause Environmental Harm or Nuisance to adjoining properties or other noise sensitive land uses. (a) Development: (i) is located in an appropriate zone; (ii) proposes best practice design and construction materials (in relation to noise attenuation); and (iii) proposes operational practices that will minimise noise nuisance for adjoining sensitive land uses.	AO_{8.1} The development will achieve the following noise levels (when measured at the nearest sensitive receiver): (a) Background (L_{90}) + 5dB(A) for variable noise between the hours of 7:00 am to 10:00 pm (measured at the facade of the sensitive land use); (b) Background (L_{90}) + 3dB(A) for variable noise between the hours of 10:00 pm and 7:00 am (measured within bedrooms assuming open windows); (c) Background (L_{90}) for continuous noise sources (measured at the facade of the sensitive land use between 7:00 am and 10:00 pm and within bedrooms assuming open windows from 10:00 pm – 7:00 am); and (d) maximum limit L_{Amax} 45dB(A) inside dwellings; and The development will achieve the Acoustic Quality Objectives listed within the <i>Environmental Protection (Noise) Policy 2008</i>. HOWEVER AO_{8.2} Where a development is unable to meet noise levels specified in AO_{8.1} an acoustic assessment has been undertaken by a suitably qualified and skilled person which demonstrates that the development will not result in environmental nuisance at any existing or likely future residential premises (within a 10 year planning horizon).
PO₁₃ Air conditioning units, refrigeration units and any other form of mechanical ventilation or extraction systems do not adversely impact on the acoustic amenity of surrounding sensitive land uses.	AO_{13.1} Plant of this nature is not elevated, is acoustically shielded (if necessary) and will not be audible at adjoining sensitive receivers. AO_{13.2} Roof-top mounted plant and equipment is located away from surrounding sensitive land uses and is acoustically shielded to achieve a nil increase in background noise levels (L_{90}) at the nearest sensitive receiver.

Noise assessment criteria to be achieved are described in the following sections.

5.1.1 Variable Noise

The noise assessment criteria for variable noise (L_{Aeq}) were based on Acceptable Outcome (AO) AO8.1 (a) and (b) of the Environmental Standards Code of the TRPS and are presented in Table 3 below.

Table 3 Variable noise assessment criteria

Time of Day	Ambient background (L_{A90}) (dBA) (from Table 2)	Allowable exceedance above ambient background (dBA) (at façade)	Variable noise assessment criteria (L_{Aeq}) (dBA) at the dwelling façade
Day (7am-6pm)	29	5	34
Evening (6pm-10pm)	29	5	34
Night (5am-7am)	28	3	31

5.1.2 Continuous Noise

Noise assessment criterion for continuous noise described at AO8.1(c) of the Environmental Standards Code of the TRPS are provided in Table 4.

Table 4 Continuous noise assessment criteria

Time of Day	Ambient background (L_{A90}) (dBA) (from Table 2)	Allowable exceedance above ambient background (dBA) (at façade)	Continuous noise assessment criteria (L_{A90}) (dBA) at the dwelling façade
Day (7am-6pm)	29	0	29
Evening (6pm-10pm)	29	0	29
Night (5am-7am)	28	0	28

5.1.3 Sleep Disturbance

The Environmental Standards Code does not specifically refer to criteria for sleep disturbance, however AO8.1(d) stipulates a noise limit of 45 dBA L_{Amax} inside a dwelling. This is consistent with the night-time sleep disturbance criteria specified by the EPA (2004). The corresponding external level is 52 dBA L_{Amax} at the façade of a dwelling for a normal, naturally ventilated building with opened windows.¹

5.1.4 Acoustic Quality Objectives (AQO)

AO8.1 requires developments to achieve the AQOs provided at Schedule 1 of the Environmental Protection (Noise) Policy 2019 (EPP Noise) (Table 5). As shown in Table 2, the average ambient noise levels (L_{Aeq}) are below both the indoor and outdoor AQOs for L_{Aeq} during all periods.

Table 5 Acoustic Quality Objectives from the EPP Noise

Sensitive Receptor	Time of Day	$L_{Aeq,adj,1hr}$	$L_{A10,adj,1hr}$	$L_{A01,adj,1hr}$
Residence (for outdoors)	Day and evening	50	55	65
Residence (for indoors) ²	Day and evening	42	47	52
	Night	37	42	47

² Values have been corrected by 7 dBA to account for the façade attenuation provided by a normal, naturally ventilated building with opened windows (ASK Consulting Engineers, 2011 & EPA, 2004).

5.2 EP Act Noise Assessment Criteria

The *Environmental Protection Act 1994* (EP Act) provides default noise standards for various noise sources and noise emitting activities which are included in the proposed development (e.g., air conditioning equipment and generators).

However, noise emissions from air conditioners and generators were not assessed in isolation against the relevant EP Act default noise limits as it was more appropriate for them to be assessed cumulatively under the TRPS framework for the following reasons:

- It is understood that generators will not operate from 7:00pm to 7:00am as outlined at Section 2.3. Section 440S regulated devices under the EP Act states that *a person must not operate a regulated device in a way that makes an audible noise during this period.*
- The continuous noise assessment criteria outlined at Section 5.1.2 is more stringent and more applicable to the assessment of noise emissions from air conditioning units than the default noise limits outlined at section 440U air conditioning equipment of the EP Act.

6 Noise Impact Assessment

6.1 Approach

Forecast noise emissions from the proposed development were calculated with SoundPlan v8.0, using the prediction method ISO 9613-2:1996 which, by default, presents noise levels at the receptor for meteorological conditions which are favourable for propagation from the sound source to the receptor. The predicted noise levels are considered to represent the average propagation under meteorological conditions including wind and temperature inversion.

All prediction models have limits to their accuracy of prediction. This is due to the inherent nature of the calculation algorithms that go into the design of the models, the assumptions made in the implementation of the model, and the availability of good source sound power data. ISO 9613-2 has an estimated accuracy for broadband noise of ± 3 dB at 1000 metres. Atmospheric and meteorological factors are not considered significant at the distances involved.

6.2 Noise Source Levels

Noise source design sound power levels (SWL) of activities considered representative of those at the proposed development have been used (Table 6).

Table 6 Design noise SWL

Name	Descriptor	Sound Power Levels in dB(Z)								Total in dB(A)
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Chickens inside shed (SWL)	L_{eq}/m^2	62	57	53	49	46	43	41	39	52
Tractor movements (SWL)	L_{eq}	107	99	106	103	106	98	89	83	108
Heavy vehicle movements (SWL)	L_{eq}	102	96	92	90	90	86	82	79	94
Light vehicle movements (SWL)	L_{eq}	78	85	79	76	79	80	76	73	85
Conveyors (SWL)	L_{eq}	89	86	80	81	84	80	76	69	87
P22 diesel generators (SWL)	L_{eq}	76	76	76	76	76	76	76	76	83
P220 diesel generators (SWL)	L_{eq}	84	84	84	84	84	84	84	84	91
Exhaust fan at 85% speed (SWL)	L_{eq} and L_{90} per unit	77	85	87	81	75	75	73	71	84
Exhaust fan at 65% speed (SWL)	L_{eq} and L_{90} per unit	72	80	82	76	70	70	68	66	79
Air-conditioning units (SWL)	L_{eq} and L_{90}	66	70	61	60	57	56	54	51	64
Reverse beepers (SWL)	L_{eq} and L_{max}	96	96	96	96	96	96	96	96	103
Car door closures	L_{max}	84	87	88	90	90	86	84	79	94

6.3 Input Parameters

Key noise sources from the proposed development considered in this assessment include:

Variable Noise Sources (L_{Aeq})

- Breakout noise from the sheds (i.e., chicken noise).
- Mechanical plant (including exhaust fans, manure conveyor belts, diesel-powered generators, and air-conditioning units).
- Light vehicle movements.
- Heavy vehicle movements.
- Tractor movements.
- Reverse beepers.

Continuous Noise Sources (L_{A90})

- Mechanical plant (including exhaust fans and air-conditioning units).

Discrete Noise Sources (L_{Amax})

- Reverse beepers.
- Car door closures

The cumulative noise emissions from the variable and continuous noise sources were modelled. The noise emissions from continuous and discrete noise sources were also modelled in isolation for comparison with the relevant noise assessment criteria. The noise source locations are presented below in Figure 3 and Figure 4.



Figure 3 Noise Source Locations



Figure 4 Detailed Shed Noise Source Locations

6.4 Model Assumptions

The noise sources considered in the noise impact assessment for each period of the day are outlined at Table 7, which aligns with the proposed operating hours shown at Section 2.3 and listed below:

- Night: 5:00am to 7:00am.
- Day: 7:00am to 6:00pm.
- Evening: 6:00pm to 7:00pm.

Table 7 Noise sources considered in the noise impact assessment

Source	Day	Evening	Night	Variable (L _{eq})	Continuous (L ₉₀)	Discrete (L _{max})
Chickens inside shed (SWL)	100%	100%	100%	Yes	-	-
Tractor movements (SWL)	1 vph at 20 km/hr	1 vph at 20 km/hr	1 vph at 20 km/hr	Yes	-	-
Heavy vehicle movements (SWL)	2 vph at 20 km/hr	2 vph at 20 km/hr	2 vph at 20 km/hr	Yes	-	-
Light vehicle movements (SWL)	6 vph at 20 km/hr	6 vph at 20 km/hr	6 vph at 20 km/hr	Yes	-	-
Conveyors (SWL)	100%	100%	100%	Yes	-	-

P22 diesel generators (SWL)	100%	100%	-	Yes	-	-
P220 diesel generators (SWL)	100%	100%	-	Yes	-	-
Exhaust fan at 85% speed (SWL)	10 fans 100% of period	10 fans 100% of period	4 fans 100% of period	Yes	Yes	-
Exhaust fan at 65% speed (SWL)	10 fans 100% of period	10 fans 100% of period	-	Yes	Yes	-
Air-conditioning units (SWL)	100%	100%	100%	Yes	Yes	-
Reverse beepers (SWL)	30 sec/hr	30 sec/hr	30 sec/hr	Yes	-	Yes
Car door closures (SWL)	-	-	100%	-	-	Yes

Table 8 below outlines the noise sources which were modelled in each noise model scenario. The fan speed and number of fans operating is dependent on the age of the birds and the required temperature inside the sheds.

Table 8 Noise modelling scenarios and noise sources

Scenario 1 Worst-case Summer Scenario (Day and Evening)	Scenario 2 Typical Operations (Day and Evening)	Scenario 3 (Night-time)
10 fans at 85% fan speed	10 fans at 65% fan speed	4 fans at 85% fan speed
- Chickens inside shed (SWL) - Tractor movements (SWL) - Heavy vehicle movements (SWL) - Light vehicle movements (SWL) - Conveyors (SWL) - P22 diesel generators (SWL) - P220 diesel generators (SWL) - Air-conditioning units (SWL) - Reverse beepers (SWL)	- Chickens inside shed (SWL) - Tractor movements (SWL) - Heavy vehicle movements (SWL) - Light vehicle movements (SWL) - Conveyors (SWL) - P22 diesel generators (SWL) - P220 diesel generators (SWL) - Air-conditioning units (SWL) - Reverse beepers (SWL)	- Chickens inside shed (SWL) - Tractor movements (SWL) - Heavy vehicle movements (SWL) - Light vehicle movements (SWL) - Conveyors (SWL) - Air-conditioning units (SWL) - Reverse beepers (SWL) - Car door closures (SWL)

The following assumptions were applied to modelling the proposed fan speeds:

Scenario 1 – Worst-case Summer Scenario

- The noise source SPL of 70 dB(A) at 2m (i.e., SWL of 84 dB) for an individual fan operating at 85% fan speed was provided by the Client.

- As per advice from the Client, a maximum of 10 fans will operate at 85% fan speed during the day and evening periods. This was represented by modelling the source levels for 10 fans at 85% fan speed provided by the Client (SWL of 84 dB).
- As per advice from the Client, Scenario 1 represents the required exhaust fan operations for the unlikely scenario when temperatures inside the sheds reach 40°C or above.

Scenario 2 – Typical Operations Scenario

- The noise source level of 65 dB(A) at 2m (i.e., SWL of 79 dB) for an individual fan operating at 65% fan speed was provided by the Client.
- As per advice from the Client, a maximum of ten (10) fans will operate at 65% fan speed during the day and evening periods during typical operations. This was represented by modelling the source levels for 10 fans at 65% fan speed provided by the Client (SWL of 79 dB).

Scenario 3 – Night-time Operations Scenario

- The noise source SPL of 70 dB(A) at 2m (i.e., SWL of 84 dB) for an individual fan operating at 85% fan speed was provided by the Client.
- As per advice from the Client, a maximum of four (4) fans will operate at 85% fan speed during the night-time period. This was represented by modelling the source levels for 4 fans at 85% fan speed provided by the Client (SWL of 84 dB).

The SWL applied to the chicken sheds was a level per square metre value that was validated to the attended monitoring locations. The validation scenario includes noise emitting from the shed facades and the exhaust fans as this was what was operating/audible during the attended monitoring period.

Tractor movements were conservatively based on a 100kW tractor towing equipment and as one (1) vehicle movement per hour (vph) at a speed of 20 km/hr during all periods. Tractor movements were represented by a line source accessing the proposed access tracks at the site (Figure 3).

Heavy vehicle movements were conservatively modelled as two (2) vph at a speed of 20 km/hr during all periods and were represented by a line source accessing the proposed access tracks at the site (Figure 3).

Light vehicle movements were conservatively modelled as six (6) vph at a speed of 20 km/hr during all periods and were represented by a line source accessing the proposed access tracks at the site (Figure 3).

The SWL applied to the manure conveyor belts was validated to the attended monitoring locations based on the field observation of a conveyor operating at the opposite end of the shed but not being audible during the attended monitoring period. The conveyors were conservatively modelled as operating 100% of the time during all periods and were represented by point sources at each shed (Figure 4).

The SWLs for the P22 and P220 diesel generators were provided by the Client. These were represented by point sources at the locations provided by the Client (Figure 4) and were conservatively modelled as operating 100% of the time during the day and evening periods (as advised by the Client). These generators will be used as a power supply to the sheds during the day and evening periods only (i.e., 7:00am to 7:00pm).

The SWL applied to the outdoor air-conditioning units was conservatively based on a 6kW Daikin Cora. These were represented by point sources at the locations provided by the Client (Figure 4) and were modelled as operating 100% of the time.

Reverse beepers were conservatively modelled as occurring 30 seconds per hour during all periods and were represented by nominal point sources at either end of the proposed chicken sheds (Figure 4).

Assessment of car door noise emissions is problematic due to the high degree of uncertainty surrounding the frequency and intensity of 'slamming' events. It is practically unknowable precisely how often – and how hard – individuals may shut their car doors at a proposed car park. Slamming is not a necessary outcome of car park activity but is likely to occur at some point, although infrequently. As future car door noise is highly uncertain, assessment of noise impacts requires

methodological assumptions regarding the indicative 'design' level of noise emissions. Noise from car door 'slams' can be characterized by the L_{max} descriptor, representing a discrete, brief (and in this case, impulsive) event. Council specifies L_{max} sleep disturbance criteria for night-time. The car door closure SWL is sourced from SoundPlan for an average single door closure L_{max} (Table 6).

Ground absorption was given a value of 0.5 and 1 m ground contours were sourced from Geoscience Australia. Forecast point receptors were located 1 m from the most exposed façade (i.e., façade-affected) and 1.8 m above ground level.

6.5 Noise Attenuation

The model did not include acoustic attenuation measures such as fencing or earthen bunds due to the topography of the site and the local area and the requirement for access to be maintained to the perimeter of the sheds at all times.

Extending acoustic walls at the ends of the proposed sheds to attenuate the exhaust fans was also considered and assessed. However, due to the directionality of the noise source and the topography of the site and local area, this did not provide significant attenuation and were therefore not proposed.

6.6 Weather Conditions

Noise modelling has been made using the prediction methodology ISO9613-2:1996 which, by default, presents noise levels at the receptor for meteorological conditions which are favourable for propagation from the sound source to the receptor. The predicted noise levels are considered to represent the average propagation under meteorological conditions including wind and temperature inversion.

6.7 Predicted Noise Levels at Noise Sensitive Receptors

The following sections present the predicted noise levels at nearby noise sensitive receptors for the proposed development as follows:

- Section 6.7.1: Scenario 1 – Worst-case Summer Scenario
- Section 6.7.2: Scenario 2 – Typical Operations Scenario
- Section 6.7.3: Scenario 3 – Night-time Period

Noise contour diagrams for all noise sources are provided at Appendix D. Section 7 provides additional context to the predicted noise levels and the modelling scenarios.

6.7.1 Scenario 1 – Worst-case Summer Scenario

Table 9 Comparison of predicted cumulative Scenario 1 variable and continuous noise levels (L_{eq}) with assessment criteria (day and evening)

Receptor	Descriptor	Predicted noise level at the receptor (L_{Aeq})	Variable noise assessment criteria (L_{Aeq})
Receptor 1	L_{Aeq}	33	34 (day and evening)
Receptor 2	L_{Aeq}	26	

Table 10 Comparison of predicted cumulative Scenario 1 continuous noise levels (L₉₀) with assessment criteria (day and evening)

Receptor	Descriptor	Predicted noise level at the receptor (L ₉₀)	Continuous noise assessment criteria (L ₉₀)
Receptor 1	L ₉₀	32	29 (day and evening)
Receptor 2	L ₉₀	25	

6.7.2 Scenario 2 – Typical Operations Scenario

Table 11 Comparison of predicted cumulative Scenario 2 variable and continuous noise levels (L_{eq}) with assessment criteria (day and evening)

Receptor	Descriptor	Predicted noise level at the receptor (L _{Aeq})	Variable noise assessment criteria (L _{Aeq})
Receptor 1	L _{Aeq}	29	34 (day and evening)
Receptor 2	L _{Aeq}	22	

Table 12 Comparison of predicted cumulative Scenario 2 continuous noise levels (L₉₀) with assessment criteria (day and evening)

Receptor	Descriptor	Predicted noise level at the receptor (L ₉₀)	Continuous noise assessment criteria (L ₉₀)
Receptor 1	L ₉₀	26	29 (day and evening)
Receptor 2	L ₉₀	20	

6.7.3 Scenario 3 - Night-time Operations

Table 13 Comparison of predicted cumulative Scenario 3 variable and continuous noise levels (L_{eq}) with assessment criteria (night)

Receptor	Descriptor	Predicted noise level at the receptor (L _{Aeq})	Variable noise assessment criteria (L _{Aeq})
Receptor 1	L _{Aeq}	30	31 (night)
Receptor 2	L _{Aeq}	23	

Table 14 Comparison of predicted cumulative Scenario 3 continuous noise levels (L_{90}) with assessment criteria (night)

Receptor	Descriptor	Predicted noise level at the receptor (L_{90})	Continuous noise assessment criteria (L_{90})
Receptor 1	L_{90}	28	28 (night)
Receptor 2	L_{90}	21	

Table 15 Comparison of predicted discrete noise levels (L_{max}) with assessment criteria (night)

Receptor	Descriptor	Predicted noise level at the receptor (L_{max})	Sleep disturbance noise assessment criteria (L_{max})
Receptor 1	L_{max}	27	52 (night)
Receptor 2	L_{max}	18	

7 Discussion

Predicted noise levels provided at Section 6.7 are briefly summarised as follows:

Scenario 1 – Worst-case Summer Scenario

- Cumulative variable and continuous noise sources (i.e. all combined operational noise emissions) were predicted to comply with the variable noise assessment criteria during the day and evening periods.
- Exceedances of 3 dB of the continuous noise assessment criteria were predicted during the day and evening periods.

Scenario 2 – Typical Operations Scenario

- Cumulative variable and continuous noise sources (i.e. all combined operational noise emissions) were predicted to comply with the variable noise assessment criteria during the day and evening periods.
- Continuous noise sources were predicted to comply with the relevant noise assessment criteria during the day and evening periods.

Scenario 3 - Night-time Operations

- Cumulative variable and continuous noise sources (i.e. all combined operational noise emissions) were predicted to comply with the variable noise assessment criteria.
- Continuous noise sources were predicted to comply with the continuous noise assessment criteria during the night-time period.
- Discrete noise sources were predicted to comply with the sleep disturbance assessment criteria during the night-time period.

The Client proposes to manage potential noise nuisance impacts at receptors via the operational management measures outlined at Section 8.

7.1 Scenario 1 – Worst-case Day & Evening Operations

Scenario 1 represents the required exhaust fan operations when temperatures inside the sheds reach 40°C or above. It is highly unlikely however that the requirement for Scenario 1 operations would occur on a regular basis or for an extended period for the following reasons:

- As an indication, daily maximum temperatures recorded at the Toowoomba Airport weather station (station ID: 041529), which is the closest weather station to the site still in operation (located approximately 29km north-east of the site), shows that in the past 10 years there has only been one (1) occasion when the maximum temperature has reached above 40°C (Appendix E).
- The exhaust fans will be fitted with a sensor which monitors the temperature inside the sheds. This means the fans will only operate at the higher Scenario 1 fan speed when the sensor indicates temperatures have reached above 40°C inside the shed and will adjust back to a lower operating capacity once the temperature has dropped below this threshold.
- As outlined by Alpair Pty Ltd, the upper temperature limit for animal welfare inside the sheds is 32°C. The inside temperature of the sheds is maintained below this limit by using evaporative cooling pads in conjunction with the exhaust fans to maintain a cooler temperature inside the sheds. For example, previous records from Alpair Pty Ltd show that an indoor temperature of 30°C can be maintained when the outside temperature is 35°C.
- Alpair Pty Ltd advised that the site's existing operations have not used 10 fans at 85% fan speed to date in any existing shed, as the temperature inside the sheds has not reached 40°C or above.

The predicted exceedances (3 dB) of the continuous day and evening noise assessment criteria were driven by the operation of the exhaust fans. DESI (2020) notes that a change in noise level of 1-3 dB(A) is 'just perceptible'. Therefore, based on available data, the predicted exceedances of 3 dB during the day and evening period are expected to be rare and only just perceptible with respect to existing ambient noise levels.

8 Noise Management Measures

The Rearing Manager shall implement the following noise management measures at the site to minimise the potential for noise nuisance at nearby sensitive receptors:

- Implement the complaints management procedure at Section 9.
- The number and speed of fans in operation shall be managed as required to meet the internal shed climate conditions for animal welfare. Fan speeds shall not be increased above 85% to manage noise emissions.
- As per Section 440S of the *Environmental Protection Act 1994*, all use of regulated devices (e.g., lawnmowers, leaf blowers, generators, etc.) must not make an audible noise before 7:00am or after 7:00pm Monday to Saturday or before 8:00am or after 7:00pm on Sundays and Public Holidays.
- All plant and equipment shall be maintained in accordance with the manufacturer's specifications to reduce noise emissions and reduce the likelihood of the evaporative cooling system shutting down.
- No unnecessary revving or idling of engines on vehicles or mobile equipment and shut down any equipment not in use.
- Ensure trucks, trailers and loads are secured to prevent rattling and other noise emissions when travelling on public roads.

9 Complaint Management Procedure

All complaints shall be forwarded to the site office on (07) 4619 8777 and be recorded in the complaint log (Appendix F). The following details must be recorded for all complaints received:

- Time, date, name, and contact details of the complainant.
- Reason for the complaint.
- Any investigations undertaken.
- Conclusions formed.
- Any actions taken.
- Feedback to the complainant.
- Assessment of the complainant's attitude to the company response.
- Further follow-up action as required.

All complaints shall be investigated and managed in accordance with Figure 5.

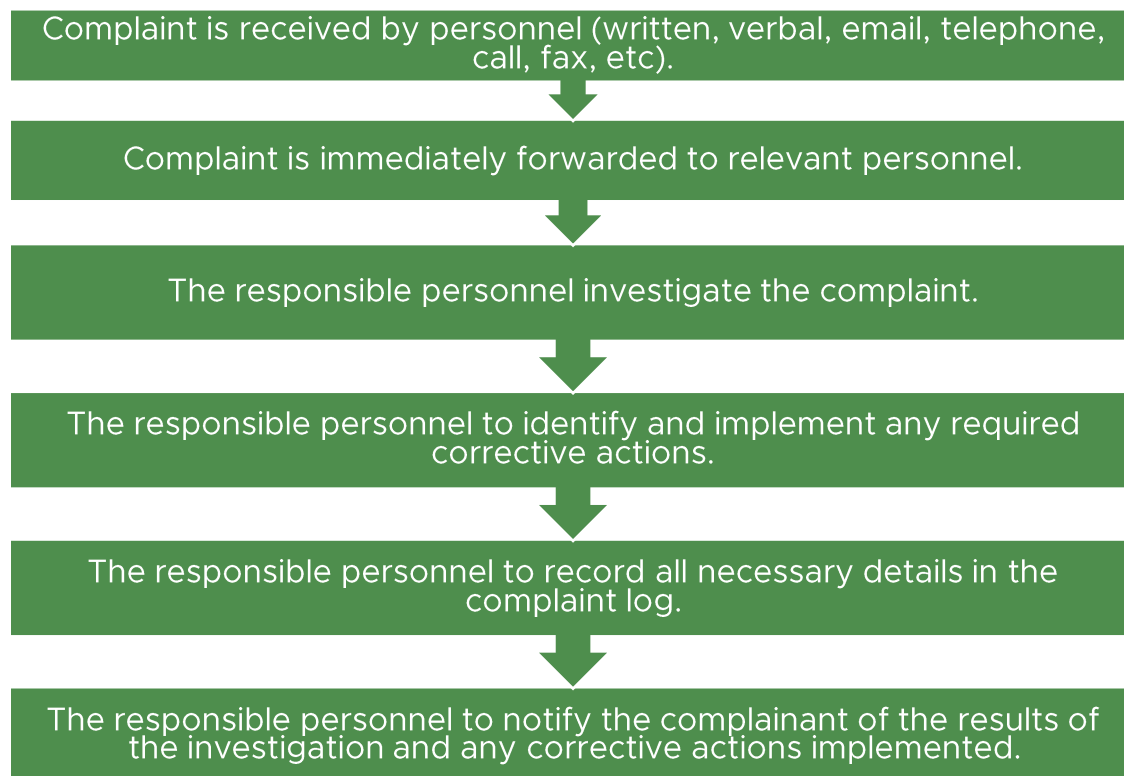


Figure 5 Complaint management flow chart

10 Summary

- A noise impact assessment was completed for a proposed poultry rearing farm at 919 Clifton Pittsworth Road, North Branch (formally described as Lot 1745 A34901).
- Predicted noise emissions from the proposed development were assessed against the relevant provisions of the Environmental Standards Code under the Toowoomba Regional Planning Scheme 2012 (v28).
- Noise emissions from the proposed development were predicted to exceed the continuous noise assessment criteria by 3 dB at Receptor 1. Based on DESI's (2020) guidance, this predicted exceedance may only be 'just perceptible' at the receptor with respect to existing ambient noise levels. The Client proposes to manage potential noise nuisance impacts at receptors via operational management measures outlined at Section 8.

11 References

ASK Consulting Engineers. 2011. Noise Reduction through Facades with Open Windows, Paper Number 37.

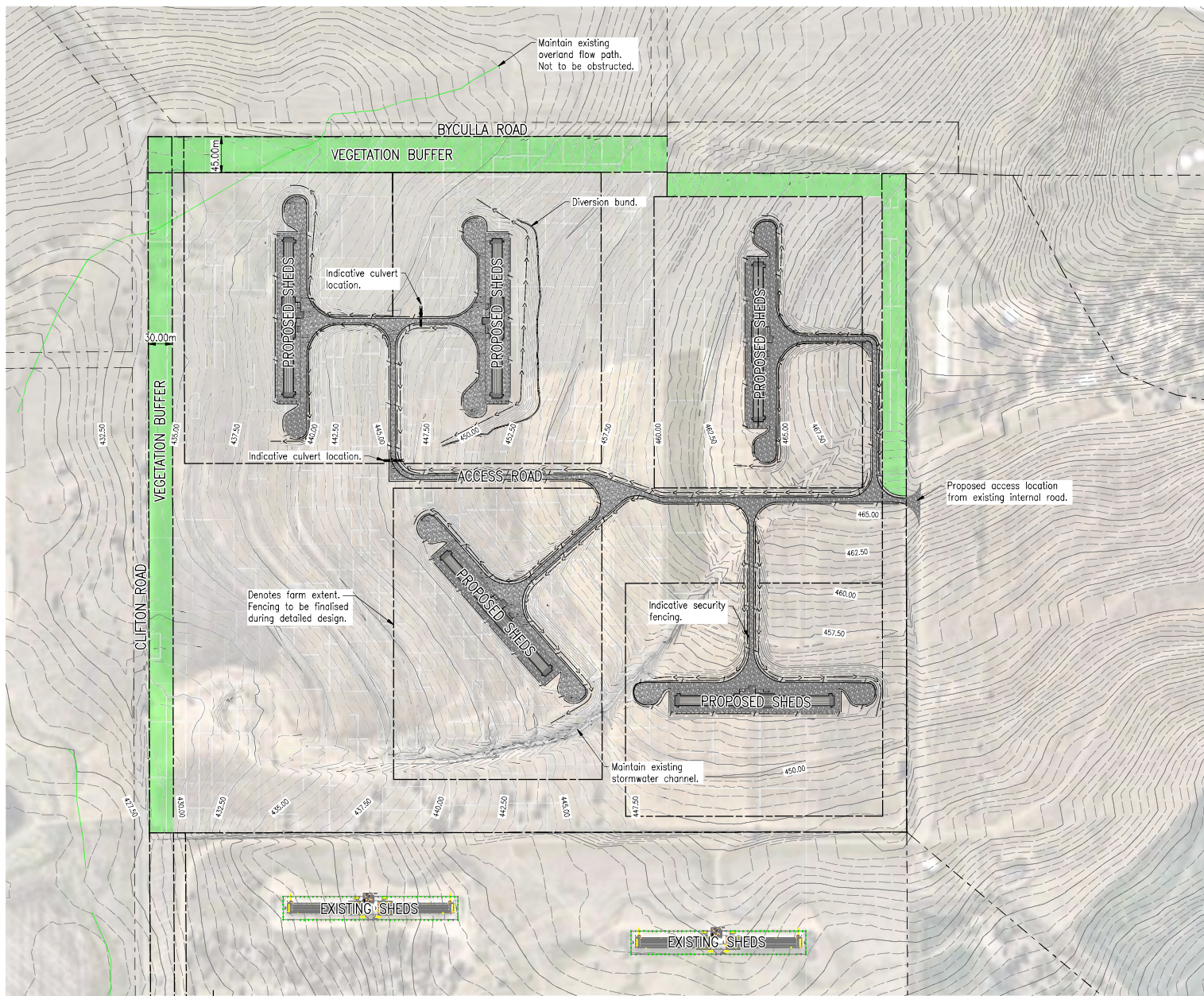
Australian Standard AS1055:2018 - Acoustics - Description and measurement of environmental noise.

Department of Environment, Science and Innovation (DESI). 2020. Noise Measurement Manual.

Environmental Protection Agency (EPA). 2004. Planning for Noise Control Guideline. State of Queensland. Brisbane, Queensland.

Appendices

Appendix A Site Plans



LEGEND:

- Existing Property Boundary
- Existing Easement Boundary
- Existing Road Pavement
- Existing Concrete Pavement
- Proposed Range Fencing
- Stormwater Invert
- Waterway Barrier Works (QLD Globe Mapping)
- Proposed Road Gravel Pavement
- Design Minor Contours
- Design Major Contours

PLAN NOTES:

- P.1. This is a sketch plan only and is conceptual only.
- P.2. This sketch plan represents design intent and concepts only.
- P.3. This plan shall not be used for tendering, financing, ordering of materials, construction or any other unintended purpose.
- P.4. Information shown on these plans has been compiled from varying sources and may not be accurate and will need verifying. This includes existing infrastructure, property boundaries and natural surface data.
- P.5. This plan shall not be relied upon for detailed design.

CONCEPT LAYOUT PLAN

Scale 1:2500 (A1)

SCALE BAR

0 25 50 75 100m

1:2500(A1) 1:5000(A3)

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT NOTES ON DRAWING 00102

VERIFY ALL ON SITE DIMENSIONS AND LEVELS PRIOR TO CONSTRUCTION. NOTIFY RMA IMMEDIATELY OF ANY DISCREPANCIES

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HEIGHT DATUM: AHD
MAP GRID: MGA-56
COUNCIL: RALM/CU NO.

COUNCIL: OW NO.

PROJECT NO. 23E-0384
DRAWING NO. C-SK0001
ISSUE C

DATE	OWN	DES	CHK	APP
26/09/24	LTR	LMB	GS	ASD
13/09/24	LMB	LMB	GS	
16/02/24	LMB	LMB	GS	
13/01/24	LMB	LMB	GS	
13/01/24	LMB	LMB	GS	

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CLIENT
ALPAIR PTY LTD - MCLEANS FARMS
PITTSWORTH QLD 4356

PROJECT
BYCULLA FARM EXTENSION
FELTON ROAD
PITTSWORTH QLD 4356
TITLE
CONCEPT LAYOUT PLAN

Appendix B Site-Specific Weather Data

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
5/03/2024	1:45 PM	27.5	64	5.4	SSW	8.9	0
5/03/2024	2:00 PM	27.3	64	5.4	SSW	8	0
5/03/2024	2:15 PM	27.8	65	5.4	SSW	9.4	0
5/03/2024	2:30 PM	27.3	64	4.9	SSW	7.2	0
5/03/2024	2:45 PM	27.6	63	4	SSW	7.6	0
5/03/2024	3:00 PM	27.2	63	4.9	SSW	7.6	0
5/03/2024	3:15 PM	28	62	5.4	SSW	10.7	0
5/03/2024	3:30 PM	27.6	62	4	SW	7.2	0
5/03/2024	3:45 PM	27.2	62	4	SW	6.3	0
5/03/2024	4:00 PM	26.6	63	4.5	SW	6.7	0
5/03/2024	4:15 PM	26.7	65	3.6	SW	5.8	0
5/03/2024	4:30 PM	27.4	64	4	SSW	6.7	0
5/03/2024	4:45 PM	26.9	65	4	SSW	6.7	0
5/03/2024	5:00 PM	26.7	67	4.5	SSW	8	0
5/03/2024	5:15 PM	26.2	68	4.9	SSW	7.2	0
5/03/2024	5:30 PM	25.6	70	4.9	SSW	7.6	0
5/03/2024	5:45 PM	25	72	5.4	SSW	8.5	0
5/03/2024	6:00 PM	24.2	75	4.9	SSW	7.6	0
5/03/2024	6:15 PM	23.1	78	4.9	SSW	8.9	0
5/03/2024	6:30 PM	22.1	81	4.9	SSW	8.5	0
5/03/2024	6:45 PM	21.4	83	4.9	SSW	8	0
5/03/2024	7:00 PM	21.1	84	4.9	SSW	7.6	0
5/03/2024	7:15 PM	20.8	84	5.4	SSW	9.4	0
5/03/2024	7:30 PM	20.6	83	4.5	SSW	8	0
5/03/2024	7:45 PM	20.3	84	4.5	SSW	7.2	0
5/03/2024	8:00 PM	20	85	4.5	SSW	7.2	0
5/03/2024	8:15 PM	19.8	86	3.6	SSW	6.3	0
5/03/2024	8:30 PM	19.7	86	4	SSW	6.3	0
5/03/2024	8:45 PM	19.7	86	4	SSW	6.3	0
5/03/2024	9:00 PM	19.6	86	4	SSW	7.2	0
5/03/2024	9:15 PM	19.6	87	4.5	SSW	7.6	0
5/03/2024	9:30 PM	19.4	87	4.5	SSW	7.2	0
5/03/2024	9:45 PM	19.4	87	4.5	SSW	6.7	0
5/03/2024	10:00 PM	19.4	86	4.5	SSW	7.6	0
5/03/2024	10:15 PM	19.3	85	4	SSW	7.2	0
5/03/2024	10:30 PM	19.3	85	4	SW	7.6	0
5/03/2024	10:45 PM	19.3	84	4.5	SSW	6.7	0
5/03/2024	11:00 PM	19.2	84	3.6	SW	5.8	0
5/03/2024	11:15 PM	19.2	84	4	SW	6.7	0
5/03/2024	11:30 PM	19.2	84	3.6	SW	5.4	0
5/03/2024	11:45 PM	19.1	84	3.6	SW	5.8	0
6/03/2024	12:00 AM	19	84	3.1	SW	5.8	0
6/03/2024	12:15 AM	19.1	83	4	SW	6.3	0
6/03/2024	12:30 AM	19.2	83	3.6	SW	5.8	0
6/03/2024	12:45 AM	19.1	83	3.6	SW	5.8	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
6/03/2024	1:00 AM	19.1	83	4	SW	5.8	0
6/03/2024	1:15 AM	18.9	84	3.1	SW	5.8	0
6/03/2024	1:30 AM	18.8	85	2.7	SW	5.4	0
6/03/2024	1:45 AM	18.7	85	2.7	SW	4.5	0
6/03/2024	2:00 AM	18.7	85	2.7	SW	4.5	0
6/03/2024	2:15 AM	18.5	86	2.7	SW	4	0
6/03/2024	2:30 AM	18.5	86	2.2	SW	3.6	0
6/03/2024	2:45 AM	18.4	86	1.8	SW	3.1	0
6/03/2024	3:00 AM	18.1	87	1.3	WSW	2.7	0
6/03/2024	3:15 AM	18.2	87	1.8	WSW	2.2	0
6/03/2024	3:30 AM	17.8	87	1.3	WSW	2.2	0
6/03/2024	3:45 AM	17.6	88	1.3	WSW	2.2	0
6/03/2024	4:00 AM	16.9	89	0.9	WNW	2.2	0
6/03/2024	4:15 AM	16.4	91	0.9	W	1.3	0
6/03/2024	4:30 AM	16.3	91	0.9	W	0.9	0
6/03/2024	4:45 AM	16.2	92	0.9	W	0.9	0
6/03/2024	5:00 AM	16.1	92	0.9	W	1.3	0
6/03/2024	5:15 AM	16.1	92	0.9	WSW	1.3	0
6/03/2024	5:30 AM	16.2	92	0.9	W	1.3	0
6/03/2024	5:45 AM	16.3	91	1.3	W	1.8	0
6/03/2024	6:00 AM	16.3	91	1.3	WSW	1.8	0
6/03/2024	6:15 AM	16.6	90	1.3	W	1.8	0
6/03/2024	6:30 AM	17.1	89	1.3	W	2.2	0
6/03/2024	6:45 AM	17.6	87	1.8	W	2.2	0
6/03/2024	7:00 AM	17.9	87	1.3	W	2.2	0
6/03/2024	7:15 AM	18.2	87	1.3	WNW	2.7	0
6/03/2024	7:30 AM	19.2	86	1.3	WNW	2.2	0
6/03/2024	7:45 AM	19.7	83	1.8	W	3.1	0
6/03/2024	8:00 AM	20.2	81	2.2	W	3.6	0
6/03/2024	8:15 AM	20.9	78	2.7	W	4.5	0
6/03/2024	8:30 AM	21.8	77	3.1	W	5.4	0
6/03/2024	8:45 AM	21.9	74	4	W	6.3	0
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6/03/2024	9:45 AM	23.9	65	3.6	W	5.4	0
6/03/2024	10:00 AM	24.5	64	3.1	SW	6.7	0
6/03/2024	10:15 AM	25.3	60	3.1	WSW	6.7	0
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6/03/2024	10:45 AM	26.1	56	3.6	W	6.7	0
6/03/2024	11:00 AM	26.4	56	3.1	W	6.3	0
6/03/2024	11:15 AM	26.8	54	4	W	8.5	0
6/03/2024	11:30 AM	26.6	55	3.1	WNW	6.3	0
6/03/2024	11:45 AM	27.3	53	2.7	W	8	0
6/03/2024	12:00 PM	27.6	52	3.6	WSW	6.7	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
6/03/2024	12:15 PM	27.8	51	3.1	WNW	7.2	0
6/03/2024	12:30 PM	28.2	51	2.7	W	5.8	0
6/03/2024	12:45 PM	27.9	51	2.7	SW	7.6	0
6/03/2024	1:00 PM	28.4	48	3.6	W	6.7	0
6/03/2024	1:15 PM	29.2	48	4.5	WNW	7.6	0
6/03/2024	1:30 PM	29.6	46	4	W	9.4	0
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6/03/2024	2:30 PM	29.5	47	4	W	6.7	0
6/03/2024	2:45 PM	29.2	48	4	WNW	7.6	0
6/03/2024	3:00 PM	29.7	47	4	W	7.2	0
6/03/2024	3:15 PM	29.4	48	4	W	7.2	0
6/03/2024	3:30 PM	29.9	46	4.5	W	7.6	0
6/03/2024	3:45 PM	29.9	46	4.9	WNW	8.5	0
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6/03/2024	4:30 PM	29.1	48	3.6	WSW	6.3	0
6/03/2024	4:45 PM	28.8	49	3.6	WSW	6.7	0
6/03/2024	5:00 PM	28.3	50	4	WSW	7.2	0
6/03/2024	5:15 PM	27.9	52	4	SW	6.7	0
6/03/2024	5:30 PM	27.5	52	4	SSW	7.6	0
6/03/2024	5:45 PM	27.1	54	3.6	SSW	6.3	0
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6/03/2024	6:30 PM	24.4	61	3.6	SSW	5.8	0
6/03/2024	6:45 PM	23.8	62	3.6	SSW	5.8	0
6/03/2024	7:00 PM	23.6	63	3.6	SW	6.7	0
6/03/2024	7:15 PM	23.2	64	3.6	SSW	5.8	0
6/03/2024	7:30 PM	22.8	65	3.1	SW	5.8	0
6/03/2024	7:45 PM	22.5	67	2.7	SSW	5.4	0
6/03/2024	8:00 PM	22.2	68	3.1	SSW	4.9	0
6/03/2024	8:15 PM	21.9	69	3.6	SSW	6.3	0
6/03/2024	8:30 PM	21.5	71	3.6	SSW	5.8	0
6/03/2024	8:45 PM	21.2	72	3.6	SSW	4.9	0
6/03/2024	9:00 PM	20.9	73	3.6	SSW	5.4	0
6/03/2024	9:15 PM	20.8	72	4	SSW	6.7	0
6/03/2024	9:30 PM	20.3	73	4.5	SSW	7.2	0
6/03/2024	9:45 PM	20.2	74	4	SSW	5.8	0
6/03/2024	10:00 PM	20.1	74	4	SSW	8	0
6/03/2024	10:15 PM	19.9	76	4	SSW	6.7	0
6/03/2024	10:30 PM	19.5	78	4	SSW	6.7	0
6/03/2024	10:45 PM	19.3	79	3.6	SSW	5.4	0
6/03/2024	11:00 PM	19.1	81	3.1	SSW	5.8	0
6/03/2024	11:15 PM	19	81	3.1	SSW	4.9	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
6/03/2024	11:30 PM	18.9	82	3.1	SSW	4.9	0
6/03/2024	11:45 PM	18.8	83	3.1	SSW	4.9	0
7/03/2024	12:00 AM	18.7	83	2.7	SSW	4.9	0
7/03/2024	12:15 AM	18.7	84	2.7	SSW	4.5	0
7/03/2024	12:30 AM	18.3	85	2.2	SSW	3.6	0
7/03/2024	12:45 AM	18.1	86	1.3	SW	2.7	0
7/03/2024	1:00 AM	17.9	87	1.3	SW	2.2	0
7/03/2024	1:15 AM	17.7	87	0.9	SW	2.2	0
7/03/2024	1:30 AM	17.8	87	1.3	SW	2.2	0
7/03/2024	1:45 AM	17.8	87	0.9	SW	1.8	0
7/03/2024	2:00 AM	17.4	88	1.3	W	1.8	0
7/03/2024	2:15 AM	16.6	89	1.3	W	1.8	0
7/03/2024	2:30 AM	16.2	90	0.9	W	1.3	0
7/03/2024	2:45 AM	15.8	90	1.3	W	1.8	0
7/03/2024	3:00 AM	15.8	91	1.3	W	1.3	0
7/03/2024	3:15 AM	16	91	1.3	W	1.8	0
7/03/2024	3:30 AM	16.1	90	1.3	W	1.8	0
7/03/2024	3:45 AM	15.8	91	1.3	W	2.2	0
7/03/2024	4:00 AM	16.1	92	1.3	W	2.2	0
7/03/2024	4:15 AM	16.8	89	0.4	W	1.3	0
7/03/2024	4:30 AM	16.4	91	0.4	NNE	0.4	0
7/03/2024	4:45 AM	17.1	91	0.4	WSW	1.8	0
7/03/2024	5:00 AM	17.4	87	0.9	WSW	2.2	0
7/03/2024	5:15 AM	16.4	89	0.9	WNW	1.3	0
7/03/2024	5:30 AM	16.4	90	1.3	W	1.8	0
7/03/2024	5:45 AM	16.4	90	1.3	W	1.8	0
7/03/2024	6:00 AM	16.4	90	1.3	WNW	1.8	0
7/03/2024	6:15 AM	16.3	90	1.8	WNW	2.7	0
7/03/2024	6:30 AM	16.7	91	2.2	WNW	3.1	0
7/03/2024	6:45 AM	16.8	91	2.7	WNW	3.6	0
7/03/2024	7:00 AM	17.2	90	2.2	WNW	3.6	0
7/03/2024	7:15 AM	17.6	89	2.2	WNW	3.1	0
7/03/2024	7:30 AM	17.9	88	1.8	WNW	2.7	0
7/03/2024	7:45 AM	18.6	87	1.8	WNW	3.1	0
7/03/2024	8:00 AM	19.2	84	2.2	WNW	3.6	0
7/03/2024	8:15 AM	19.6	83	2.2	WNW	3.6	0
7/03/2024	8:30 AM	20.2	82	1.8	WNW	3.1	0
7/03/2024	8:45 AM	21.1	79	1.8	WNW	3.6	0
7/03/2024	9:00 AM	21.8	79	1.8	WNW	3.6	0
7/03/2024	9:15 AM	22.2	77	1.8	W	3.6	0
7/03/2024	9:30 AM	22.6	75	1.8	WSW	4	0
7/03/2024	9:45 AM	22.9	74	1.8	WNW	3.6	0
7/03/2024	10:00 AM	24.2	70	0.9	WNW	3.6	0
7/03/2024	10:15 AM	24.7	69	2.2	W	4.9	0
7/03/2024	10:30 AM	25.1	66	2.2	WSW	5.4	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
7/03/2024	10:45 AM	25.6	64	2.2	SSW	5.4	0
7/03/2024	11:00 AM	26.1	61	3.1	W	5.8	0
7/03/2024	11:15 AM	26.4	60	2.2	W	5.8	0
7/03/2024	11:30 AM	27.5	58	2.2	SW	4.9	0
7/03/2024	11:45 AM	26.8	58	2.7	W	7.6	0
7/03/2024	12:00 PM	27.2	58	2.7	NW	4.9	0
7/03/2024	12:15 PM	27.8	54	3.1	WNW	7.2	0
7/03/2024	12:30 PM	28.3	54	2.7	WNW	6.3	0
7/03/2024	12:45 PM	28.2	54	2.7	WSW	6.3	0
7/03/2024	1:00 PM	28.9	49	2.7	WNW	5.4	0
7/03/2024	1:15 PM	29.3	49	2.7	W	7.2	0
7/03/2024	1:30 PM	29.6	48	3.1	W	6.7	0
7/03/2024	1:45 PM	29.8	47	4	WSW	6.7	0
7/03/2024	2:00 PM	30.3	46	4	WNW	6.7	0
7/03/2024	2:15 PM	30.3	46	3.6	WSW	6.7	0
7/03/2024	2:30 PM	30.2	45	4	WNW	6.7	0
7/03/2024	2:45 PM	30.8	43	5.4	WNW	8.5	0
7/03/2024	3:00 PM	30.3	43	4.9	W	8	0
7/03/2024	3:15 PM	30.9	43	4.9	W	7.6	0
7/03/2024	3:30 PM	31.1	44	4.9	WNW	9.4	0
7/03/2024	3:45 PM	30.7	45	4.9	WNW	9.4	0
7/03/2024	4:00 PM	30.5	49	4	SW	9.8	0
7/03/2024	4:15 PM	29.7	50	4	SSW	6.7	0
7/03/2024	4:30 PM	29.1	51	4	SW	6.7	0
7/03/2024	4:45 PM	28.5	52	4.5	SW	7.6	0
7/03/2024	5:00 PM	28.6	52	4.5	SW	6.3	0
7/03/2024	5:15 PM	28	53	4.9	SW	7.2	0
7/03/2024	5:30 PM	27.2	54	3.6	SW	6.7	0
7/03/2024	5:45 PM	26.7	54	4	SW	6.3	0
7/03/2024	6:00 PM	26.6	54	4	SW	6.7	0
7/03/2024	6:15 PM	25.8	56	3.6	SW	5.8	0
7/03/2024	6:30 PM	25.2	57	3.1	SW	4.9	0
7/03/2024	6:45 PM	24.7	58	3.1	SW	4.9	0
7/03/2024	7:00 PM	24.3	60	2.7	SW	4.9	0
7/03/2024	7:15 PM	24.1	65	3.6	SW	6.7	0
7/03/2024	7:30 PM	23.6	72	4.9	SSW	7.2	0
7/03/2024	7:45 PM	23.2	74	4	SSW	6.7	0
7/03/2024	8:00 PM	22.7	76	4.5	SSW	7.2	0
7/03/2024	8:15 PM	22.4	78	4.5	SSW	7.2	0
7/03/2024	8:30 PM	22.1	79	4	SSW	8.5	0
7/03/2024	8:45 PM	21.8	79	4	SSW	6.7	0
7/03/2024	9:00 PM	21.6	79	4.5	SSW	7.6	0
7/03/2024	9:15 PM	21.4	79	4.5	SSW	7.6	0
7/03/2024	9:30 PM	21.2	79	4	SSW	6.3	0
7/03/2024	9:45 PM	21.1	80	4	SSW	5.8	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
7/03/2024	10:00 PM	20.8	80	4	SW	6.7	0
7/03/2024	10:15 PM	20.6	80	3.6	SW	5.8	0
7/03/2024	10:30 PM	20.6	80	3.6	SSW	5.4	0
7/03/2024	10:45 PM	20.4	80	3.6	SW	5.8	0
7/03/2024	11:00 PM	20.2	80	3.1	SW	5.8	0
7/03/2024	11:15 PM	20.2	80	3.1	SW	4.9	0
7/03/2024	11:30 PM	20	81	2.7	SW	4.9	0
7/03/2024	11:45 PM	19.7	82	1.8	SW	3.1	0
8/03/2024	12:00 AM	19.2	82	1.8	WSW	2.7	0
8/03/2024	12:15 AM	18.7	84	0.9	WSW	2.2	0
8/03/2024	12:30 AM	18.2	85	0.9	WSW	1.3	0
8/03/2024	12:45 AM	18.2	85	0.9	WSW	1.3	0
8/03/2024	1:00 AM	18.3	83	1.3	WSW	2.7	0
8/03/2024	1:15 AM	18.6	81	1.8	SW	3.1	0
8/03/2024	1:30 AM	18	83	0.9	WSW	2.2	0
8/03/2024	1:45 AM	17.4	83	0.9	WSW	1.3	0
8/03/2024	2:00 AM	16.9	86	0.9	WNW	1.8	0
8/03/2024	2:15 AM	16.6	87	0.4	WNW	1.3	0
8/03/2024	2:30 AM	16.4	87	0	WNW	0.9	0
8/03/2024	2:45 AM	16.3	87	0.4	W	1.3	0
8/03/2024	3:00 AM	16.3	88	0	W	0.4	0
8/03/2024	3:15 AM	16.9	86	0.9	WSW	1.8	0
8/03/2024	3:30 AM	17.3	85	1.8	WSW	2.7	0
8/03/2024	3:45 AM	17.3	85	1.8	WSW	2.7	0
8/03/2024	4:00 AM	17.3	83	1.3	WSW	2.2	0
8/03/2024	4:15 AM	16.4	86	1.3	W	1.8	0
8/03/2024	4:30 AM	16.6	86	0.9	WSW	1.3	0
8/03/2024	4:45 AM	16.1	87	0.9	W	1.3	0
8/03/2024	5:00 AM	15.8	88	0.9	WSW	0.9	0
8/03/2024	5:15 AM	15.9	88	0.4	W	0.9	0
8/03/2024	5:30 AM	16.4	86	0.4	WSW	0.9	0
8/03/2024	5:45 AM	16.3	86	0.4	W	1.3	0
8/03/2024	6:00 AM	15.9	86	1.3	WSW	1.3	0
8/03/2024	6:15 AM	15.8	87	0.9	WSW	1.3	0
8/03/2024	6:30 AM	15.8	87	0.9	WSW	1.3	0
8/03/2024	6:45 AM	16.4	88	0.9	W	1.8	0
8/03/2024	7:00 AM	17.3	86	1.3	W	2.2	0
8/03/2024	7:15 AM	18.5	82	1.3	WNW	2.2	0
8/03/2024	7:30 AM	19.4	80	1.8	W	2.7	0
8/03/2024	7:45 AM	20.8	77	2.7	W	4	0
8/03/2024	8:00 AM	21.9	72	4	W	7.6	0
8/03/2024	8:15 AM	22.8	67	4.5	W	7.2	0
8/03/2024	8:30 AM	23.2	66	4.9	W	7.6	0
8/03/2024	8:45 AM	24.1	62	4.9	W	9.4	0
8/03/2024	9:00 AM	24.7	58	6.3	WSW	9.8	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
8/03/2024	9:15 AM	25.1	58	5.8	WSW	9.4	0
8/03/2024	9:30 AM	25.4	56	6.3	W	9.4	0
8/03/2024	9:45 AM	25.6	56	6.3	WSW	9.4	0
8/03/2024	10:00 AM	25.4	58	6.3	WSW	9.4	0
8/03/2024	10:15 AM	25.8	58	5.8	WSW	8.9	0
8/03/2024	10:30 AM	26.6	56	6.3	WSW	10.3	0
8/03/2024	10:45 AM	26.1	57	6.3	W	10.3	0
8/03/2024	11:00 AM	26.3	54	6.7	W	9.8	0
8/03/2024	11:15 AM	26.7	55	6.3	WSW	9.4	0
8/03/2024	11:30 AM	26.8	55	6.3	W	8.9	0
8/03/2024	11:45 AM	26.6	56	6.3	W	9.8	0
8/03/2024	12:00 PM	26.7	55	5.8	W	9.8	0
8/03/2024	12:15 PM	27.3	53	6.3	W	8.9	0
8/03/2024	12:30 PM	27.1	54	6.3	WSW	9.4	0
8/03/2024	12:45 PM	27.1	54	5.8	W	8.9	0
8/03/2024	1:00 PM	27.7	51	6.3	W	10.3	0
8/03/2024	1:15 PM	28.1	48	5.8	W	8.9	0
8/03/2024	1:30 PM	27.1	49	5.8	W	8.9	0
8/03/2024	1:45 PM	27.4	49	5.8	W	8.9	0
8/03/2024	2:00 PM	28.1	47	5.4	WSW	8.5	0
8/03/2024	2:15 PM	27.4	49	5.8	W	8.9	0
8/03/2024	2:30 PM	27.3	50	5.4	W	7.6	0
8/03/2024	2:45 PM	27.1	50	4.9	SW	8	0
8/03/2024	3:00 PM	28.9	45	4.5	SW	8	0
8/03/2024	3:15 PM	29	45	5.4	WSW	9.4	0
8/03/2024	3:30 PM	29.1	44	5.8	WSW	10.3	0
8/03/2024	3:45 PM	28.3	45	6.3	WSW	8.5	0
8/03/2024	4:00 PM	27.6	49	5.4	W	8.9	0
8/03/2024	4:15 PM	27.6	49	5.8	W	9.4	0
8/03/2024	4:30 PM	27.2	47	4.9	W	7.6	0
8/03/2024	4:45 PM	28.4	47	5.4	W	7.6	0
8/03/2024	5:00 PM	27.1	50	4.9	WSW	7.6	0
8/03/2024	5:15 PM	27.2	51	4.5	W	6.7	0
8/03/2024	5:30 PM	25.9	58	5.8	W	9.4	0
8/03/2024	5:45 PM	25.6	58	4.9	W	7.2	0
8/03/2024	6:00 PM	24.8	59	4	W	6.3	0
8/03/2024	6:15 PM	24.2	60	3.6	W	5.4	0
8/03/2024	6:30 PM	23.8	60	3.6	W	5.4	0
8/03/2024	6:45 PM	23.6	62	3.1	WSW	4.9	0
8/03/2024	7:00 PM	23.1	63	3.6	WSW	5.8	0
8/03/2024	7:15 PM	22.4	65	3.1	W	4.5	0
8/03/2024	7:30 PM	22.4	65	3.6	W	6.3	0
8/03/2024	7:45 PM	22.1	66	3.6	W	5.8	0
8/03/2024	8:00 PM	21.2	69	1.8	W	3.1	0
8/03/2024	8:15 PM	21	70	2.2	W	3.6	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
8/03/2024	8:30 PM	20.9	73	3.1	W	4.9	0
8/03/2024	8:45 PM	20.7	74	3.1	W	4.9	0
8/03/2024	9:00 PM	20.3	76	2.7	W	4.5	0
8/03/2024	9:15 PM	20.2	78	2.7	W	4.5	0
8/03/2024	9:30 PM	20.1	79	3.1	W	4.9	0
8/03/2024	9:45 PM	19.8	80	3.1	W	5.4	0
8/03/2024	10:00 PM	20	81	4	WNW	6.7	0
8/03/2024	10:15 PM	20.2	80	4	WNW	6.7	0
8/03/2024	10:30 PM	20.3	79	4.5	W	6.7	0
8/03/2024	10:45 PM	20.1	80	3.6	W	4.9	0
8/03/2024	11:00 PM	19.5	82	2.7	WSW	4.9	0
8/03/2024	11:15 PM	18.8	84	1.8	WSW	3.6	0
8/03/2024	11:30 PM	18.4	84	1.8	W	2.7	0
8/03/2024	11:45 PM	17.9	86	1.3	W	1.8	0
9/03/2024	12:00 AM	17.8	86	0.9	WSW	1.8	0
9/03/2024	12:15 AM	17.5	87	0.9	W	1.3	0
9/03/2024	12:30 AM	17.8	86	0.9	W	1.8	0
9/03/2024	12:45 AM	17.7	86	0.9	WSW	1.3	0
9/03/2024	1:00 AM	18.1	85	0.9	W	1.8	0
9/03/2024	1:15 AM	17.4	86	0.9	W	1.8	0
9/03/2024	1:30 AM	16.6	88	0.9	WNW	1.3	0
9/03/2024	1:45 AM	16.8	88	0.9	W	1.3	0
9/03/2024	2:00 AM	17.2	87	0.9	W	1.3	0
9/03/2024	2:15 AM	17.4	86	0.9	WNW	1.3	0
9/03/2024	2:30 AM	17.6	84	1.3	WNW	1.8	0
9/03/2024	2:45 AM	17.5	84	0.9	WNW	1.8	0
9/03/2024	3:00 AM	17.1	84	0.9	WNW	1.8	0
9/03/2024	3:15 AM	17.3	85	0.9	WNW	2.2	0
9/03/2024	3:30 AM	17.4	84	0.9	WNW	1.3	0
9/03/2024	3:45 AM	17.4	85	0.9	WNW	1.3	0
9/03/2024	4:00 AM	17.1	86	1.3	W	2.2	0
9/03/2024	4:15 AM	16.6	88	0.9	W	1.3	0
9/03/2024	4:30 AM	16.8	89	0.9	W	1.3	0
9/03/2024	4:45 AM	17.1	89	0.9	W	1.3	0
9/03/2024	5:00 AM	17.4	89	1.3	W	1.8	0
9/03/2024	5:15 AM	17.2	89	0.9	WSW	1.8	0
9/03/2024	5:30 AM	17	89	0.9	WSW	1.8	0
9/03/2024	5:45 AM	16.9	90	0.9	WSW	1.3	0
9/03/2024	6:00 AM	16.7	89	0.4	WSW	0.9	0
9/03/2024	6:15 AM	16.8	88	0.4	WSW	1.3	0
9/03/2024	6:30 AM	17.5	86	0.9	WSW	1.8	0
9/03/2024	6:45 AM	17.8	84	1.3	W	2.2	0
9/03/2024	7:00 AM	18.4	83	0.9	W	2.2	0
9/03/2024	7:15 AM	19.1	79	1.8	W	3.1	0
9/03/2024	7:30 AM	19.8	76	2.2	W	3.6	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
9/03/2024	7:45 AM	21.3	71	3.1	W	6.3	0
9/03/2024	8:00 AM	22.2	67	4.5	W	6.7	0
9/03/2024	8:15 AM	23	63	5.4	W	8.9	0
9/03/2024	8:30 AM	23.9	59	6.3	W	8.9	0
9/03/2024	8:45 AM	24.3	57	6.3	W	9.4	0
9/03/2024	9:00 AM	25.2	54	6.3	WSW	10.7	0
9/03/2024	9:15 AM	25.6	53	6.7	W	9.4	0
9/03/2024	9:30 AM	26.1	46	6.7	W	10.3	0
9/03/2024	9:45 AM	26.4	46	7.2	W	9.8	0
9/03/2024	10:00 AM	26.9	47	6.7	W	9.8	0
9/03/2024	10:15 AM	27.2	48	6.3	W	9.4	0
9/03/2024	10:30 AM	27.6	49	7.6	W	10.3	0
9/03/2024	10:45 AM	27.8	48	7.2	W	12.1	0
9/03/2024	11:00 AM	27.9	49	6.7	WSW	10.3	0
9/03/2024	11:15 AM	27.9	50	6.7	W	9.8	0
9/03/2024	11:30 AM	28.4	48	6.7	WSW	12.1	0
9/03/2024	11:45 AM	28.4	48	6.7	W	9.8	0
9/03/2024	12:00 PM	28.4	49	6.7	W	10.3	0
9/03/2024	12:15 PM	27.7	51	6.3	W	9.4	0
9/03/2024	12:30 PM	27.4	52	6.3	W	9.8	0
9/03/2024	12:45 PM	26.9	54	6.3	W	9.4	0
9/03/2024	1:00 PM	26.7	56	6.7	WNW	9.8	0
9/03/2024	1:15 PM	26.7	56	6.3	WNW	9.4	0
9/03/2024	1:30 PM	26.7	55	6.7	W	10.3	0
9/03/2024	1:45 PM	27.2	55	6.7	W	9.4	0
9/03/2024	2:00 PM	27.1	55	6.3	W	9.8	0
9/03/2024	2:15 PM	26.9	53	5.4	W	8	0
9/03/2024	2:30 PM	28.1	47	6.3	W	10.3	0
9/03/2024	2:45 PM	28.4	45	5.8	WSW	11.2	0
9/03/2024	3:00 PM	28.3	47	5.4	W	10.3	0
9/03/2024	3:15 PM	27.2	51	4.9	WSW	8	0
9/03/2024	3:30 PM	26.8	53	5.8	W	8.9	0
9/03/2024	3:45 PM	26.8	53	5.8	W	8.9	0
9/03/2024	4:00 PM	26.6	55	6.3	W	9.4	0
9/03/2024	4:15 PM	26.2	55	6.3	W	9.8	0
9/03/2024	4:30 PM	26.3	54	6.3	W	9.4	0
9/03/2024	4:45 PM	26.1	55	7.2	WNW	11.6	0
9/03/2024	5:00 PM	25.7	57	5.4	WNW	8	0
9/03/2024	5:15 PM	25.4	59	5.4	WNW	7.6	0
9/03/2024	5:30 PM	24.4	63	5.4	WNW	7.6	0
9/03/2024	5:45 PM	23.7	66	5.4	WNW	7.2	0
9/03/2024	6:00 PM	23.5	67	4	WNW	6.7	0
9/03/2024	6:15 PM	23.3	67	3.6	WNW	6.3	0
9/03/2024	6:30 PM	23.1	67	4.5	WNW	7.2	0
9/03/2024	6:45 PM	22.9	68	4.5	WNW	7.2	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
9/03/2024	7:00 PM	22.4	69	3.6	WNW	5.8	0
9/03/2024	7:15 PM	22.2	69	3.6	WNW	6.3	0
9/03/2024	7:30 PM	21.6	70	2.2	WNW	4.5	0
9/03/2024	7:45 PM	21.2	71	2.7	WNW	4	0
9/03/2024	8:00 PM	20.7	73	1.8	WNW	3.1	0
9/03/2024	8:15 PM	19.9	74	1.3	W	2.2	0
9/03/2024	8:30 PM	19.6	75	1.3	W	2.2	0
9/03/2024	8:45 PM	19	76	0.9	W	1.8	0
9/03/2024	9:00 PM	18.6	77	0.9	W	1.3	0
9/03/2024	9:15 PM	19.1	73	1.3	W	3.1	0
9/03/2024	9:30 PM	18.2	77	0.9	W	1.8	0
9/03/2024	9:45 PM	18.2	78	1.3	WNW	2.7	0
9/03/2024	10:00 PM	18	78	0.4	W	0.9	0
9/03/2024	10:15 PM	17.5	80	0.9	W	1.3	0
9/03/2024	10:30 PM	17.6	81	0.9	W	1.3	0
9/03/2024	10:45 PM	17.9	80	0.9	WNW	1.8	0
9/03/2024	11:00 PM	18.4	79	1.3	WNW	1.8	0
9/03/2024	11:15 PM	18.2	79	0.9	WNW	1.8	0
9/03/2024	11:30 PM	17.7	81	0.4	WNW	1.3	0
9/03/2024	11:45 PM	17.3	83	0.9	WNW	2.7	0
10/03/2024	12:00 AM	17.4	83	1.8	WNW	3.6	0
10/03/2024	12:15 AM	17	85	0.9	WNW	1.3	0
10/03/2024	12:30 AM	16.6	86	0.9	WNW	1.3	0
10/03/2024	12:45 AM	16.4	87	0.9	WNW	1.3	0
10/03/2024	1:00 AM	16.2	89	0.9	NW	1.3	0
10/03/2024	1:15 AM	15.9	90	0.4	W	1.3	0
10/03/2024	1:30 AM	15.9	92	0.9	NW	1.3	0
10/03/2024	1:45 AM	16.2	91	0.9	WNW	1.8	0
10/03/2024	2:00 AM	16.1	92	0.9	WNW	1.3	0
10/03/2024	2:15 AM	16	93	0.9	NW	1.8	0
10/03/2024	2:30 AM	15.7	93	0.4	NNW	1.3	0
10/03/2024	2:45 AM	16	93	0.9	NNW	3.1	0
10/03/2024	3:00 AM	16.8	90	2.7	W	4.5	0
10/03/2024	3:15 AM	16.7	90	2.2	WNW	4	0
10/03/2024	3:30 AM	16.6	90	1.8	WNW	3.1	0
10/03/2024	3:45 AM	16.3	91	1.3	WNW	2.7	0
10/03/2024	4:00 AM	16.5	91	2.7	W	4.5	0
10/03/2024	4:15 AM	16.4	90	2.7	W	4	0
10/03/2024	4:30 AM	16.3	90	2.2	W	3.1	0
10/03/2024	4:45 AM	16.1	89	2.2	WNW	4	0
10/03/2024	5:00 AM	16.1	89	2.2	W	4	0
10/03/2024	5:15 AM	15.9	88	1.8	W	3.6	0
10/03/2024	5:30 AM	15.6	88	0.4	WNW	1.8	0
10/03/2024	5:45 AM	14.9	90	0.9	N	1.8	0
10/03/2024	6:00 AM	15.4	87	2.2	W	3.1	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
10/03/2024	6:15 AM	15.5	88	2.2	W	3.6	0
10/03/2024	6:30 AM	16.4	86	3.1	WNW	4.5	0
10/03/2024	6:45 AM	17	85	2.7	WNW	4	0
10/03/2024	7:00 AM	17.6	83	2.2	W	4.5	0
10/03/2024	7:15 AM	18.7	80	3.1	W	4.5	0
10/03/2024	7:30 AM	19.7	76	3.6	WNW	5.8	0
10/03/2024	7:45 AM	21	70	4.5	W	6.7	0
10/03/2024	8:00 AM	21.6	69	4.5	W	6.7	0
10/03/2024	8:15 AM	21.9	66	5.8	WNW	8.5	0
10/03/2024	8:30 AM	22.3	66	5.4	WNW	8	0
10/03/2024	8:45 AM	23.1	64	5.4	WNW	8.5	0
10/03/2024	9:00 AM	23.9	61	5.8	WNW	9.4	0
10/03/2024	9:15 AM	25.1	57	4.9	WNW	8	0
10/03/2024	9:30 AM	25.6	56	5.8	WNW	9.4	0
10/03/2024	9:45 AM	25.6	54	6.3	WNW	10.3	0
10/03/2024	10:00 AM	25.5	55	6.7	W	11.6	0
10/03/2024	10:15 AM	26.9	53	7.2	W	10.7	0
10/03/2024	10:30 AM	27.6	50	6.7	W	11.2	0
10/03/2024	10:45 AM	27.8	49	6.7	W	11.6	0
10/03/2024	11:00 AM	28.1	50	7.2	W	11.2	0
10/03/2024	11:15 AM	28.4	49	7.2	W	10.7	0
10/03/2024	11:30 AM	27.9	50	6.3	W	11.2	0
10/03/2024	11:45 AM	27.7	52	6.7	W	9.4	0
10/03/2024	12:00 PM	28	52	6.7	WNW	9.8	0
10/03/2024	12:15 PM	28.5	51	6.7	W	12.1	0
10/03/2024	12:30 PM	28.8	49	6.7	W	9.8	0
10/03/2024	12:45 PM	28.3	49	6.3	W	8.9	0
10/03/2024	1:00 PM	28.5	51	5.8	W	9.8	0
10/03/2024	1:15 PM	28.4	52	6.7	WNW	10.7	0
10/03/2024	1:30 PM	29.3	47	6.7	WNW	10.3	0
10/03/2024	1:45 PM	28.6	48	5.8	W	9.4	0
10/03/2024	2:00 PM	28.3	50	5.4	W	9.4	0
10/03/2024	2:15 PM	28.9	48	6.3	WSW	9.4	0
10/03/2024	2:30 PM	28.8	48	6.3	W	10.3	0
10/03/2024	2:45 PM	27.9	54	7.6	WNW	10.7	0
10/03/2024	3:00 PM	28.6	52	7.2	WNW	12.1	0
10/03/2024	3:15 PM	28.8	50	7.2	WNW	11.2	0
10/03/2024	3:30 PM	28.7	50	6.7	W	9.4	0
10/03/2024	3:45 PM	29.3	46	7.2	W	11.2	0
10/03/2024	4:00 PM	29.2	47	6.3	W	9.8	0
10/03/2024	4:15 PM	29.2	47	6.3	W	8.9	0
10/03/2024	4:30 PM	27.9	54	7.2	WNW	12.1	0
10/03/2024	4:45 PM	26.8	58	8.9	WNW	13.9	0
10/03/2024	5:00 PM	26.5	59	7.6	WNW	11.2	0
10/03/2024	5:15 PM	26.3	60	7.2	WNW	11.2	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
10/03/2024	5:30 PM	25.7	61	6.3	WSW	9.8	0
10/03/2024	5:45 PM	24.6	63	5.8	W	9.4	0
10/03/2024	6:00 PM	24	66	6.3	WNW	10.3	0
10/03/2024	6:15 PM	23.3	68	6.3	WNW	8.9	0
10/03/2024	6:30 PM	22.7	70	5.4	WNW	8.5	0
10/03/2024	6:45 PM	22.2	70	4.9	W	7.6	0
10/03/2024	7:00 PM	21.9	71	5.4	W	8	0
10/03/2024	7:15 PM	21.6	73	4.9	W	7.6	0
10/03/2024	7:30 PM	21.2	74	4.9	W	8	0
10/03/2024	7:45 PM	20.6	75	3.1	W	5.4	0
10/03/2024	8:00 PM	20.4	74	3.1	W	5.4	0
10/03/2024	8:15 PM	20.2	73	2.7	W	4	0
10/03/2024	8:30 PM	19.8	73	2.2	W	3.6	0
10/03/2024	8:45 PM	19.7	71	2.2	W	3.6	0
10/03/2024	9:00 PM	19.9	68	2.7	W	4	0
10/03/2024	9:15 PM	20.4	67	2.2	W	4.9	0
10/03/2024	9:30 PM	19.9	68	1.3	W	2.7	0
10/03/2024	9:45 PM	19.9	68	1.3	WSW	2.2	0
10/03/2024	10:00 PM	19.6	69	1.3	W	2.2	0
10/03/2024	10:15 PM	18.8	71	0	W	0.9	0
10/03/2024	10:30 PM	18.8	72	0	W	0.4	0
10/03/2024	10:45 PM	18.7	72	0	SW	1.3	0
10/03/2024	11:00 PM	18.4	73	0	WSW	0.9	0
10/03/2024	11:15 PM	18.9	73	1.3	WSW	3.6	0
10/03/2024	11:30 PM	19.1	73	2.7	WSW	4.5	0
10/03/2024	11:45 PM	18.5	75	2.2	WSW	3.6	0
11/03/2024	12:00 AM	19.1	74	3.1	WSW	4.5	0
11/03/2024	12:15 AM	19.1	75	2.2	WSW	3.6	0
11/03/2024	12:30 AM	18.9	75	1.8	WSW	3.1	0
11/03/2024	12:45 AM	18.3	76	1.8	WSW	2.2	0
11/03/2024	1:00 AM	18.3	76	1.8	WSW	2.2	0
11/03/2024	1:15 AM	16.8	80	1.3	W	1.8	0
11/03/2024	1:30 AM	16.9	80	1.3	W	2.2	0
11/03/2024	1:45 AM	16.9	81	1.3	W	2.2	0
11/03/2024	2:00 AM	16.6	82	0.9	W	1.8	0
11/03/2024	2:15 AM	16.7	85	0.9	WNW	1.3	0
11/03/2024	2:30 AM	16.6	86	1.3	WNW	2.2	0
11/03/2024	2:45 AM	16.5	88	1.3	NW	2.2	0
11/03/2024	3:00 AM	16.7	90	1.8	NW	2.2	0
11/03/2024	3:15 AM	17.3	88	1.8	NW	3.1	0
11/03/2024	3:30 AM	16.7	89	1.3	WNW	3.1	0
11/03/2024	3:45 AM	16.4	89	0.9	WNW	1.8	0
11/03/2024	4:00 AM	16.2	90	0.9	WNW	1.8	0
11/03/2024	4:15 AM	16.1	90	0.4	WNW	1.3	0
11/03/2024	4:30 AM	16.2	90	0.4	W	0.9	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
11/03/2024	4:45 AM	16.1	90	0.4	WNW	0.9	0
11/03/2024	5:00 AM	15.5	90	0	WNW	0.4	0
11/03/2024	5:15 AM	15.6	92	0	WNW	0.4	0
11/03/2024	5:30 AM	15.7	92	0.4	WNW	1.3	0
11/03/2024	5:45 AM	15.7	92	0.9	WNW	1.3	0
11/03/2024	6:00 AM	16.2	91	0.9	W	1.3	0
11/03/2024	6:15 AM	15.7	92	0	NW	0.9	0
11/03/2024	6:30 AM	15.8	92	0.9	W	1.3	0
11/03/2024	6:45 AM	16.4	92	1.3	W	2.7	0
11/03/2024	7:00 AM	16.9	90	0.9	W	2.2	0
11/03/2024	7:15 AM	17.1	89	0.4	W	0.9	0
11/03/2024	7:30 AM	17.9	88	0.9	NW	2.2	0
11/03/2024	7:45 AM	18.4	86	1.3	WNW	2.2	0
11/03/2024	8:00 AM	19.3	83	1.8	WNW	3.1	0
11/03/2024	8:15 AM	19.8	82	2.2	NW	3.1	0
11/03/2024	8:30 AM	20.4	80	1.8	NW	2.7	0
11/03/2024	8:45 AM	21.2	77	2.2	WNW	3.1	0
11/03/2024	9:00 AM	22.2	73	2.7	W	4.5	0
11/03/2024	9:15 AM	23.6	68	3.6	W	6.3	0
11/03/2024	9:30 AM	25.5	59	4.5	WSW	8	0
11/03/2024	9:45 AM	26.2	58	5.8	W	10.3	0
11/03/2024	10:00 AM	26.3	57	6.7	W	11.2	0
11/03/2024	10:15 AM	26.4	54	6.3	WNW	9.4	0
11/03/2024	10:30 AM	27.2	52	5.8	W	8.9	0
11/03/2024	10:45 AM	27.1	52	5.4	W	8.5	0
11/03/2024	11:00 AM	27.8	50	5.4	WNW	9.8	0
11/03/2024	11:15 AM	28.1	47	5.4	WSW	8.9	0
11/03/2024	11:30 AM	27.6	49	5.4	W	8.9	0
11/03/2024	11:45 AM	28.1	48	4.9	W	7.6	0
11/03/2024	12:00 PM	27.3	48	5.4	WNW	8.5	0
11/03/2024	12:15 PM	28.7	44	5.4	W	8.9	0
11/03/2024	12:30 PM	29.3	43	5.8	W	9.4	0
11/03/2024	12:45 PM	29.2	45	5.4	SW	9.8	0
11/03/2024	1:00 PM	29.3	45	4.9	W	8.5	0
11/03/2024	1:15 PM	29.3	45	6.3	SW	9.8	0
11/03/2024	1:30 PM	29.1	47	4.9	W	8	0
11/03/2024	1:45 PM	29.2	49	4.5	WSW	7.6	0
11/03/2024	2:00 PM	28.6	49	4.9	SW	8	0
11/03/2024	2:15 PM	28	51	4.5	WSW	7.6	0
11/03/2024	2:30 PM	28.4	50	4.9	SW	7.2	0
11/03/2024	2:45 PM	28.4	51	4.5	W	8	0
11/03/2024	3:00 PM	27.6	51	4.5	W	7.2	0
11/03/2024	3:15 PM	27	53	5.8	W	8.5	0
11/03/2024	3:30 PM	26.8	54	5.4	W	7.6	0
11/03/2024	3:45 PM	27.2	54	5.4	WSW	8	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
11/03/2024	4:00 PM	27.6	53	6.3	W	9.4	0
11/03/2024	4:15 PM	26.7	56	6.3	WNW	8.9	0
11/03/2024	4:30 PM	26.3	56	6.3	WNW	9.8	0
11/03/2024	4:45 PM	26	58	6.7	WNW	9.8	0
11/03/2024	5:00 PM	26.8	54	5.8	WNW	9.4	0
11/03/2024	5:15 PM	25.9	56	6.3	W	8.9	0
11/03/2024	5:30 PM	25.4	60	5.8	W	8.9	0
11/03/2024	5:45 PM	24.9	61	5.8	WNW	8.5	0
11/03/2024	6:00 PM	24.6	62	5.8	WNW	8.9	0
11/03/2024	6:15 PM	24.1	63	5.8	WNW	9.4	0
11/03/2024	6:30 PM	23.6	65	5.4	WNW	8	0
11/03/2024	6:45 PM	23.2	66	5.4	WNW	8.9	0
11/03/2024	7:00 PM	22.8	67	6.3	WNW	8.9	0
11/03/2024	7:15 PM	22.5	69	4.9	WNW	7.6	0
11/03/2024	7:30 PM	22.1	69	4.9	WNW	8	0
11/03/2024	7:45 PM	21.6	71	3.1	W	5.4	0
11/03/2024	8:00 PM	21.6	71	4	W	5.8	0
11/03/2024	8:15 PM	21.2	73	3.6	WNW	5.4	0
11/03/2024	8:30 PM	20.7	76	4	WNW	6.3	0
11/03/2024	8:45 PM	20.7	77	4.5	WNW	6.7	0
11/03/2024	9:00 PM	20.8	77	4	WNW	7.2	0
11/03/2024	9:15 PM	20.3	78	2.7	WNW	5.4	0
11/03/2024	9:30 PM	19.8	80	2.2	WNW	3.6	0
11/03/2024	9:45 PM	19.7	81	2.2	WNW	4	0
11/03/2024	10:00 PM	19.9	82	2.7	WNW	4.9	0
11/03/2024	10:15 PM	19.5	83	3.1	WNW	4.9	0
11/03/2024	10:30 PM	19.2	84	3.6	WNW	5.4	0
11/03/2024	10:45 PM	18.8	85	2.2	WNW	4	0
11/03/2024	11:00 PM	18.4	86	1.3	WNW	2.7	0
11/03/2024	11:15 PM	17.9	88	0.9	N	1.3	0
11/03/2024	11:30 PM	17.4	88	1.3	NW	1.3	0
11/03/2024	11:45 PM	17.3	90	0.4	NW	0.9	0
12/03/2024	12:00 AM	17	90	0.9	W	1.3	0
12/03/2024	12:15 AM	17.1	90	1.8	W	2.7	0
12/03/2024	12:30 AM	16.9	91	1.8	W	2.2	0
12/03/2024	12:45 AM	16.7	91	1.3	WNW	1.8	0
12/03/2024	1:00 AM	16.6	91	1.3	W	2.2	0
12/03/2024	1:15 AM	16.3	91	0.9	WNW	1.3	0
12/03/2024	1:30 AM	16.3	90	1.3	WNW	2.2	0
12/03/2024	1:45 AM	16.1	91	0.9	NW	1.3	0
12/03/2024	2:00 AM	15.8	91	0.4	W	0.9	0
12/03/2024	2:15 AM	15.9	91	0.4	SW	1.3	0
12/03/2024	2:30 AM	16.1	88	1.8	SW	3.1	0
12/03/2024	2:45 AM	16.8	84	1.8	WSW	3.1	0
12/03/2024	3:00 AM	17.1	82	2.7	WSW	4.5	0

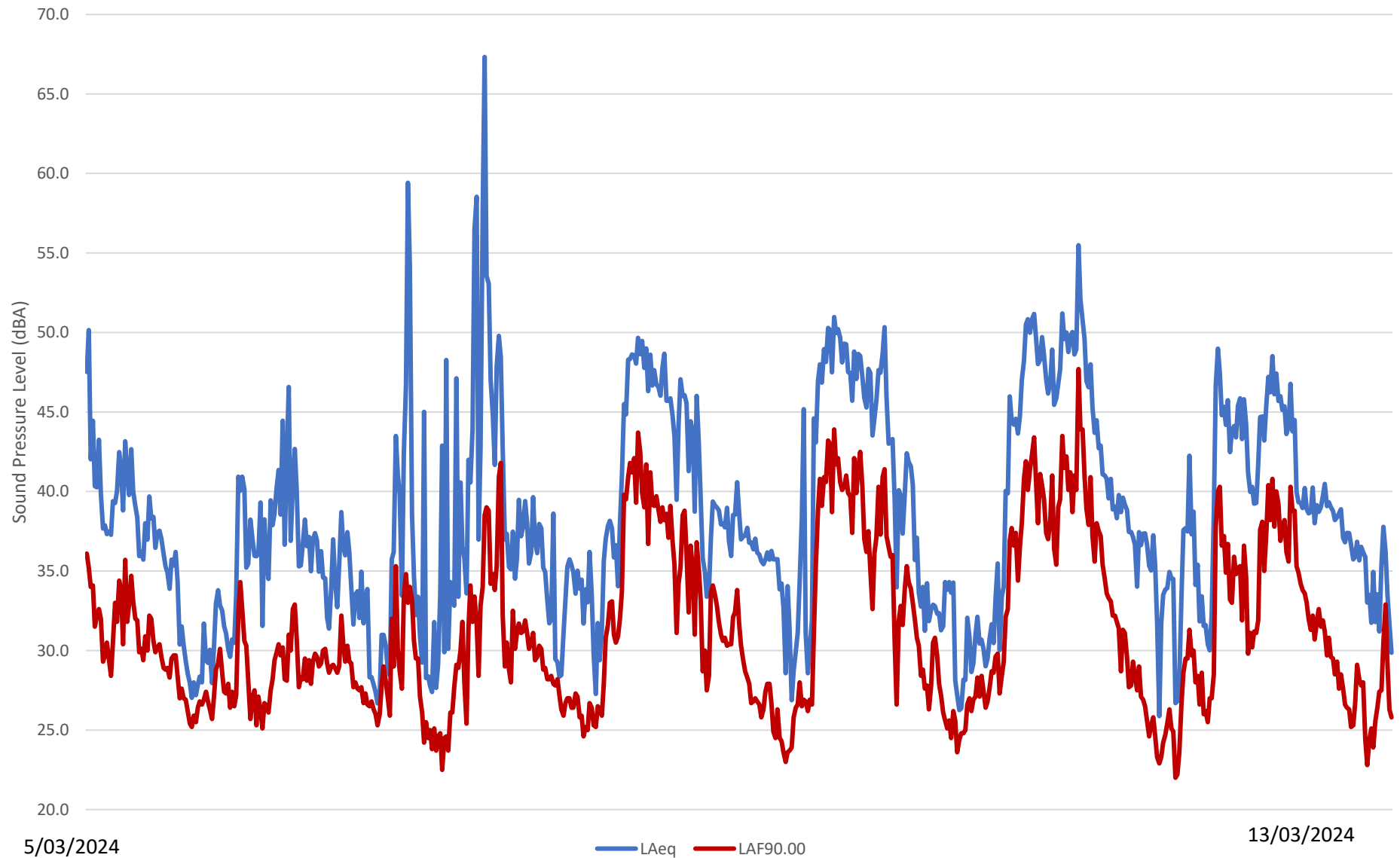
Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
12/03/2024	3:15 AM	17.3	81	3.1	W	4.9	0
12/03/2024	3:30 AM	17	81	2.7	WSW	4.5	0
12/03/2024	3:45 AM	16.8	81	2.7	WSW	4	0
12/03/2024	4:00 AM	16.7	81	2.7	W	4	0
12/03/2024	4:15 AM	16.4	82	1.3	WSW	2.2	0
12/03/2024	4:30 AM	15.8	83	0.4	W	1.3	0
12/03/2024	4:45 AM	15.2	85	0	NNW	0.4	0
12/03/2024	5:00 AM	15.2	86	0.4	WSW	1.3	0
12/03/2024	5:15 AM	15.5	84	0.9	WNW	2.2	0
12/03/2024	5:30 AM	15.7	83	0.9	WNW	3.1	0
12/03/2024	5:45 AM	16	82	1.3	W	2.2	0
12/03/2024	6:00 AM	15.8	83	1.8	WNW	3.1	0
12/03/2024	6:15 AM	16.1	83	0.9	WNW	1.8	0
12/03/2024	6:30 AM	16.8	81	0.4	W	1.3	0
12/03/2024	6:45 AM	17.8	79	1.3	WNW	2.2	0
12/03/2024	7:00 AM	18.1	79	0.9	NW	1.8	0
12/03/2024	7:15 AM	18.7	77	1.3	NW	2.2	0
12/03/2024	7:30 AM	19.5	74	2.2	NW	3.6	0
12/03/2024	7:45 AM	20.3	71	3.1	WNW	4.5	0
12/03/2024	8:00 AM	21.2	68	3.6	WNW	5.8	0
12/03/2024	8:15 AM	21.8	66	3.6	WNW	5.8	0
12/03/2024	8:30 AM	22.5	66	4.5	WNW	7.2	0
12/03/2024	8:45 AM	23.1	65	4.9	WNW	8.5	0
12/03/2024	9:00 AM	23.8	62	5.4	WNW	8.5	0
12/03/2024	9:15 AM	24.2	60	4.5	WNW	7.6	0
12/03/2024	9:30 AM	24.5	58	5.4	WNW	8	0
12/03/2024	9:45 AM	24.4	60	4	WNW	7.6	0
12/03/2024	10:00 AM	25.1	58	3.6	WNW	8	0
12/03/2024	10:15 AM	25.8	55	2.7	WNW	7.2	0
12/03/2024	10:30 AM	26.6	51	4.5	W	7.6	0
12/03/2024	10:45 AM	27.2	49	4	WSW	10.7	0
12/03/2024	11:00 AM	27.1	49	4	W	7.6	0
12/03/2024	11:15 AM	27.3	49	4	WNW	8	0
12/03/2024	11:30 AM	27.2	47	3.6	W	7.2	0
12/03/2024	11:45 AM	27.8	46	3.6	WNW	7.6	0
12/03/2024	12:00 PM	28.4	45	3.6	WNW	6.7	0
12/03/2024	12:15 PM	28.4	45	3.1	WNW	6.7	0
12/03/2024	12:30 PM	28.8	45	4.5	WNW	8	0
12/03/2024	12:45 PM	29.2	44	3.6	WNW	8	0
12/03/2024	1:00 PM	29.1	43	2.7	WNW	8	0
12/03/2024	1:15 PM	29.4	43	4.5	WNW	7.2	0
12/03/2024	1:30 PM	28.9	43	3.6	WNW	7.2	0
12/03/2024	1:45 PM	29.4	42	3.6	W	8.9	0
12/03/2024	2:00 PM	29.6	42	4.5	WNW	10.7	0
12/03/2024	2:15 PM	29.7	42	3.6	W	6.7	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
12/03/2024	2:30 PM	29.8	42	3.1	WNW	7.2	0
12/03/2024	2:45 PM	30.3	42	4	WNW	6.7	0
12/03/2024	3:00 PM	29.8	41	4	WNW	7.6	0
12/03/2024	3:15 PM	29.7	42	4.5	W	7.6	0
12/03/2024	3:30 PM	29.8	41	4	W	7.2	0
12/03/2024	3:45 PM	29.6	41	4.5	WNW	8	0
12/03/2024	4:00 PM	29.9	42	4.5	WNW	7.2	0
12/03/2024	4:15 PM	29.4	39	4.5	WNW	7.6	0
12/03/2024	4:30 PM	29.6	40	4	WNW	7.2	0
12/03/2024	4:45 PM	28.8	42	3.6	WNW	5.4	0
12/03/2024	5:00 PM	29.1	42	4	WNW	6.3	0
12/03/2024	5:15 PM	28.8	43	4	W	6.3	0
12/03/2024	5:30 PM	28.3	44	3.6	WNW	5.8	0
12/03/2024	5:45 PM	27.6	46	3.6	W	5.8	0
12/03/2024	6:00 PM	26.6	48	3.1	WSW	4.9	0
12/03/2024	6:15 PM	25.6	50	2.2	WSW	4.5	0
12/03/2024	6:30 PM	24.7	52	1.3	W	2.7	0
12/03/2024	6:45 PM	23.7	55	1.3	W	2.2	0
12/03/2024	7:00 PM	23.9	55	2.2	WSW	3.6	0
12/03/2024	7:15 PM	23.6	56	1.8	WSW	2.7	0
12/03/2024	7:30 PM	23.2	57	1.3	WSW	2.2	0
12/03/2024	7:45 PM	21.8	59	1.3	W	2.7	0
12/03/2024	8:00 PM	21.4	62	1.3	W	1.8	0
12/03/2024	8:15 PM	21.3	62	1.3	WSW	1.8	0
12/03/2024	8:30 PM	20.7	63	0.9	W	1.8	0
12/03/2024	8:45 PM	20.4	65	1.3	SW	2.2	0
12/03/2024	9:00 PM	20.8	65	1.3	WSW	1.8	0
12/03/2024	9:15 PM	20.3	66	0.9	W	1.3	0
12/03/2024	9:30 PM	20.3	68	1.3	WSW	3.1	0
12/03/2024	9:45 PM	20.6	68	2.2	WSW	3.6	0
12/03/2024	10:00 PM	19.7	70	0.9	W	1.8	0
12/03/2024	10:15 PM	20.2	70	1.8	WSW	3.1	0
12/03/2024	10:30 PM	19.9	71	1.8	WSW	2.7	0
12/03/2024	10:45 PM	18.3	74	2.2	SSW	3.1	0
12/03/2024	11:00 PM	18.3	75	1.8	SSW	2.7	0
12/03/2024	11:15 PM	17.7	79	2.2	SSW	3.6	0
12/03/2024	11:30 PM	17.9	79	3.1	SW	4.9	0
12/03/2024	11:45 PM	18.6	78	2.2	SW	4	0
13/03/2024	12:00 AM	18.4	78	1.8	SW	3.1	0
13/03/2024	12:15 AM	16.8	82	1.3	SSW	1.8	0
13/03/2024	12:30 AM	16.9	83	1.3	SSW	3.1	0
13/03/2024	12:45 AM	18.2	80	1.8	SW	3.6	0
13/03/2024	1:00 AM	18.1	77	1.3	SW	3.1	0
13/03/2024	1:15 AM	17.1	81	0.9	WNW	1.3	0
13/03/2024	1:30 AM	16.3	82	1.3	W	2.2	0

Date	Time	Temp. (°C)	Humidity (%)	Avg. Wind Speed (m/s)	Wind Direction	Max. Wind Speed (m/s)	Rainfall (mm)
13/03/2024	1:45 AM	15.7	84	0.9	WNW	1.8	0
13/03/2024	2:00 AM	16.3	83	1.3	WSW	2.7	0
13/03/2024	2:15 AM	16.2	82	1.3	WSW	2.2	0
13/03/2024	2:30 AM	15.5	84	1.3	W	1.8	0
13/03/2024	2:45 AM	15.7	84	1.8	WSW	2.7	0
13/03/2024	3:00 AM	16	83	1.3	SW	2.2	0
13/03/2024	3:15 AM	15.6	84	0.9	W	1.3	0
13/03/2024	3:30 AM	15.6	84	0.4	WNW	1.3	0
13/03/2024	3:45 AM	14.8	85	0	---	0	0
13/03/2024	4:00 AM	14.4	87	0	---	0	0
13/03/2024	4:15 AM	14	87	0	---	0	0
13/03/2024	4:30 AM	15.1	87	0.4	WSW	0.9	0
13/03/2024	4:45 AM	14.8	86	0.4	WSW	1.3	0
13/03/2024	5:00 AM	14.9	88	0	WSW	0.9	0
13/03/2024	5:15 AM	15.3	88	0.9	WSW	1.8	0
13/03/2024	5:30 AM	14.9	87	0.9	WSW	1.8	0
13/03/2024	5:45 AM	14.4	87	0.4	SSW	0.9	0
13/03/2024	6:00 AM	14.5	90	0.4	SSW	1.8	0
13/03/2024	6:15 AM	15.3	89	1.8	W	2.7	0
13/03/2024	6:30 AM	16.7	84	2.2	WSW	3.6	0
13/03/2024	6:45 AM	17.2	83	0.9	W	2.2	0
13/03/2024	7:00 AM	17.2	83	0.4	NNW	1.3	0
13/03/2024	7:15 AM	17.2	84	1.3	NW	2.2	0
13/03/2024	7:30 AM	17.9	83	0.9	NNW	2.2	0
13/03/2024	7:45 AM	18.8	80	0.9	NNE	1.8	0
13/03/2024	8:00 AM	20.1	75	1.8	WNW	3.6	0
13/03/2024	8:15 AM	21.1	73	2.7	W	4.9	0
13/03/2024	8:30 AM	22.1	70	3.6	WNW	5.8	0
13/03/2024	8:45 AM	22.5	70	3.6	WNW	5.8	0
13/03/2024	9:00 AM	23.3	66	3.6	W	6.3	0
13/03/2024	9:15 AM	23.7	67	3.6	W	6.7	0
13/03/2024	9:30 AM	24.2	65	4	WNW	5.8	0
13/03/2024	9:45 AM	24.4	63	4.5	W	7.2	0
13/03/2024	10:00 AM	24.8	62	4.5	W	7.6	0
13/03/2024	10:15 AM	24.7	61	4	W	6.7	0

Appendix C Ambient Noise Charts

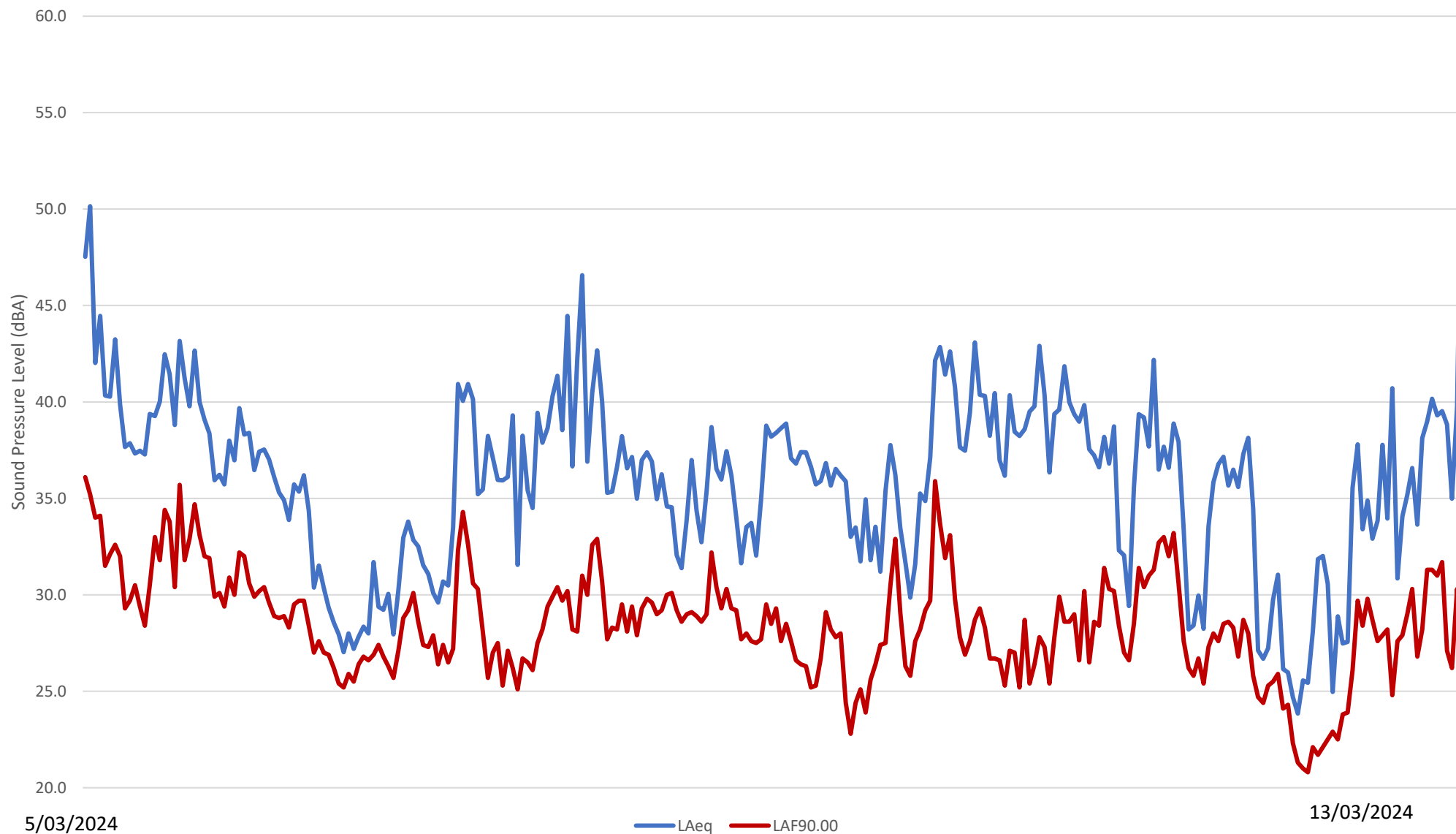
Original Ambient Data - Time Series Data (15 minute data)
919 Clifton Pittsworth Road, North Branch
5 March 2024 to 13 March 2024



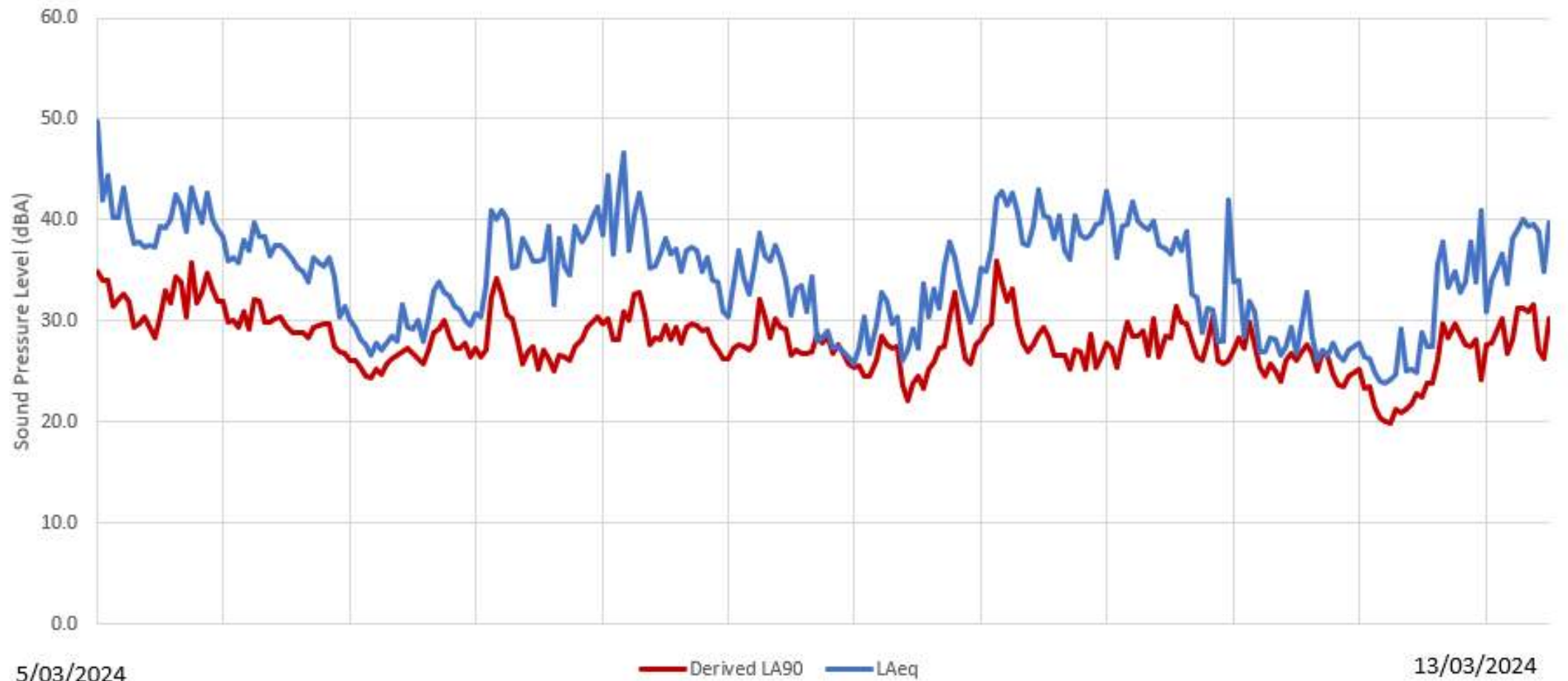
Farming and Wind Affected Data Removed - Time Series Data (15 minute data)

919 Clifton Pittsworth Road, North Branch

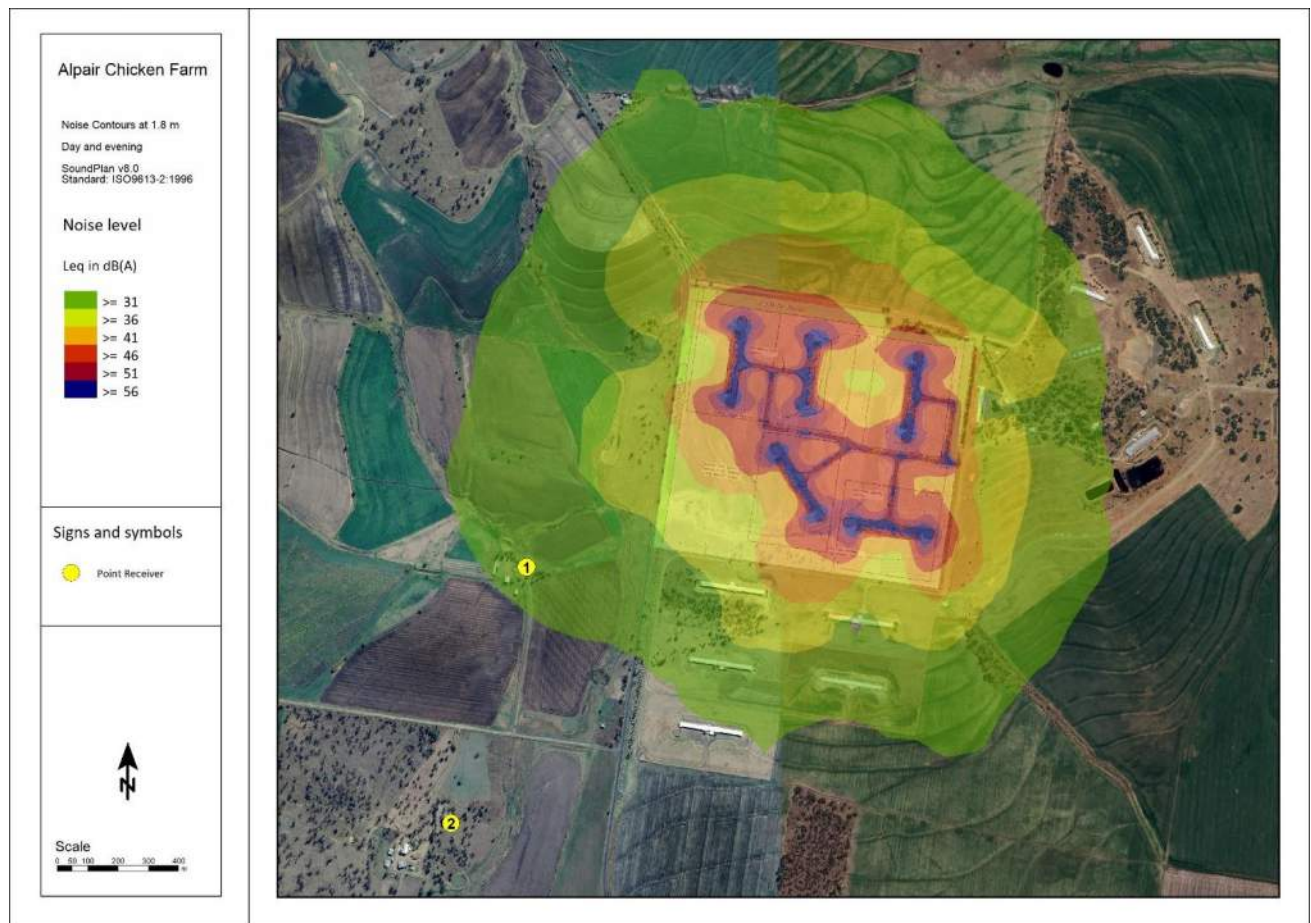
5 March 2024 to 13 March 2024 (7-11 March 2024 removed)



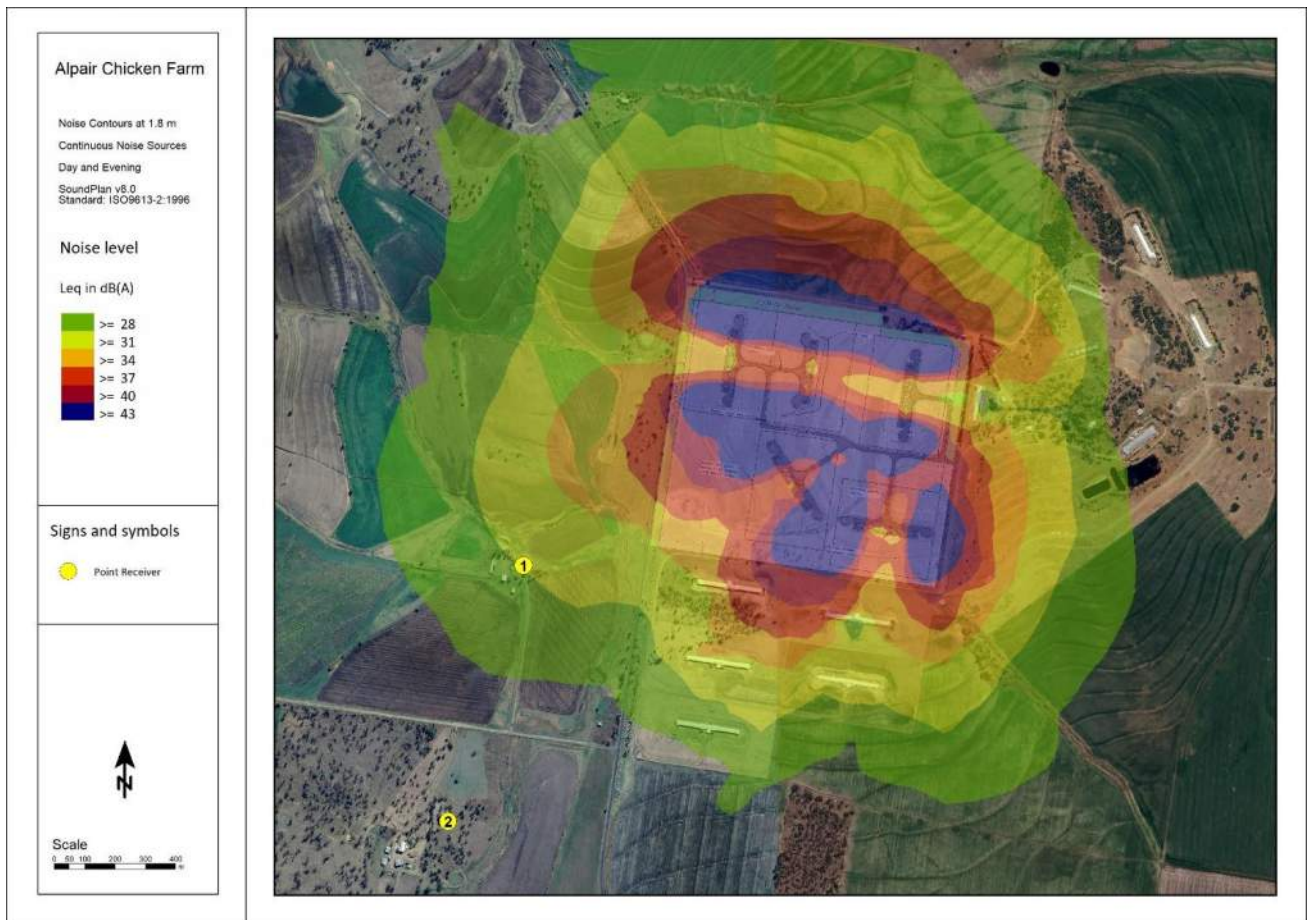
Insect Affected Data Removed - Time Series Data (15 minute data)
919 Clifton Pittsworth Road, North Branch
5 March 2024 to 13 March 2024 (7-11 March 2024 removed)



Appendix D Noise Contour Diagrams

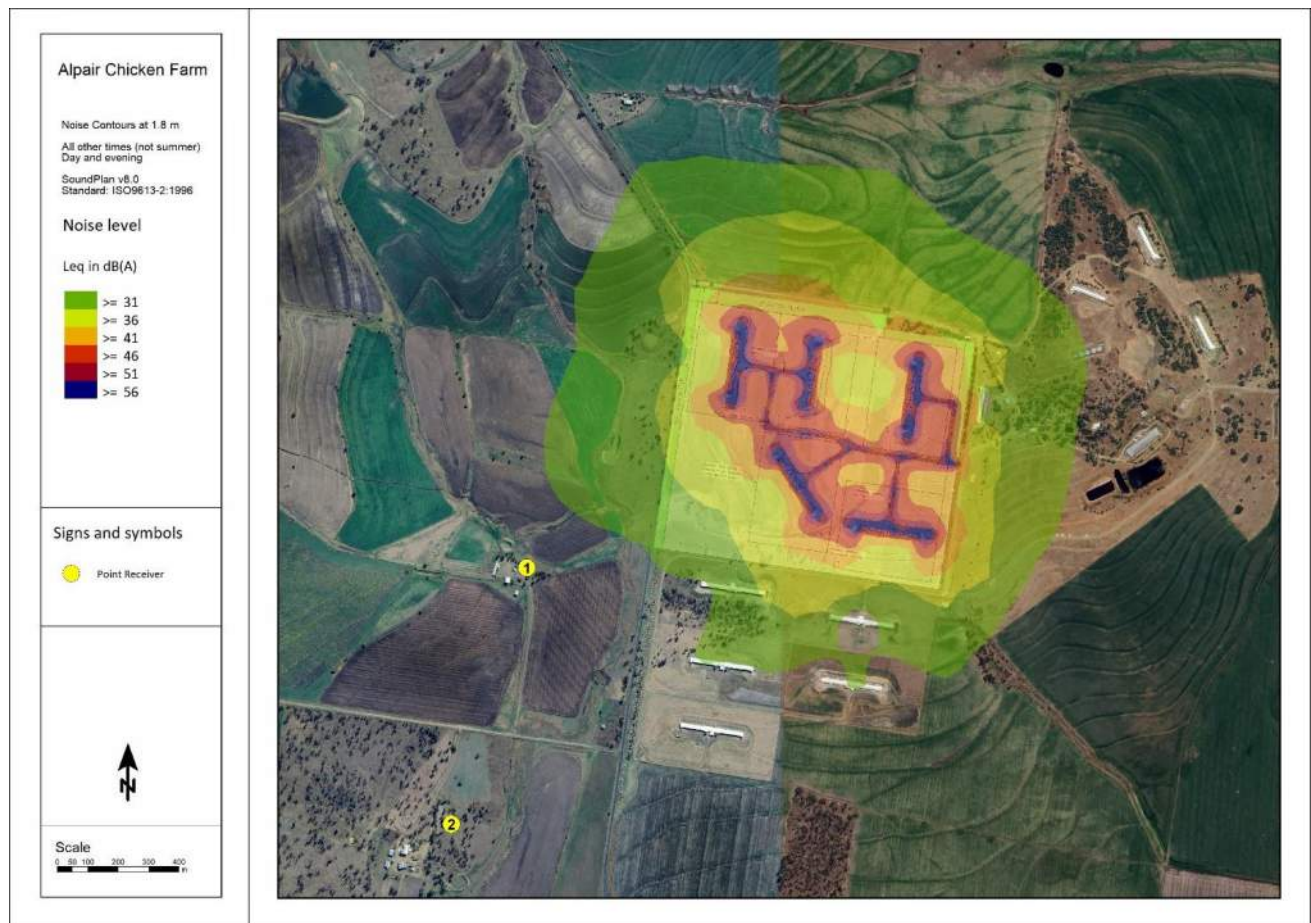
Scenario 1 – Worst-case Summer Scenario

Scenario 1 – Noise contour diagrams at 1.8m for cumulative variable and continuous noise levels during the day and evening periods. Levels are in dB(A), L_{eq}

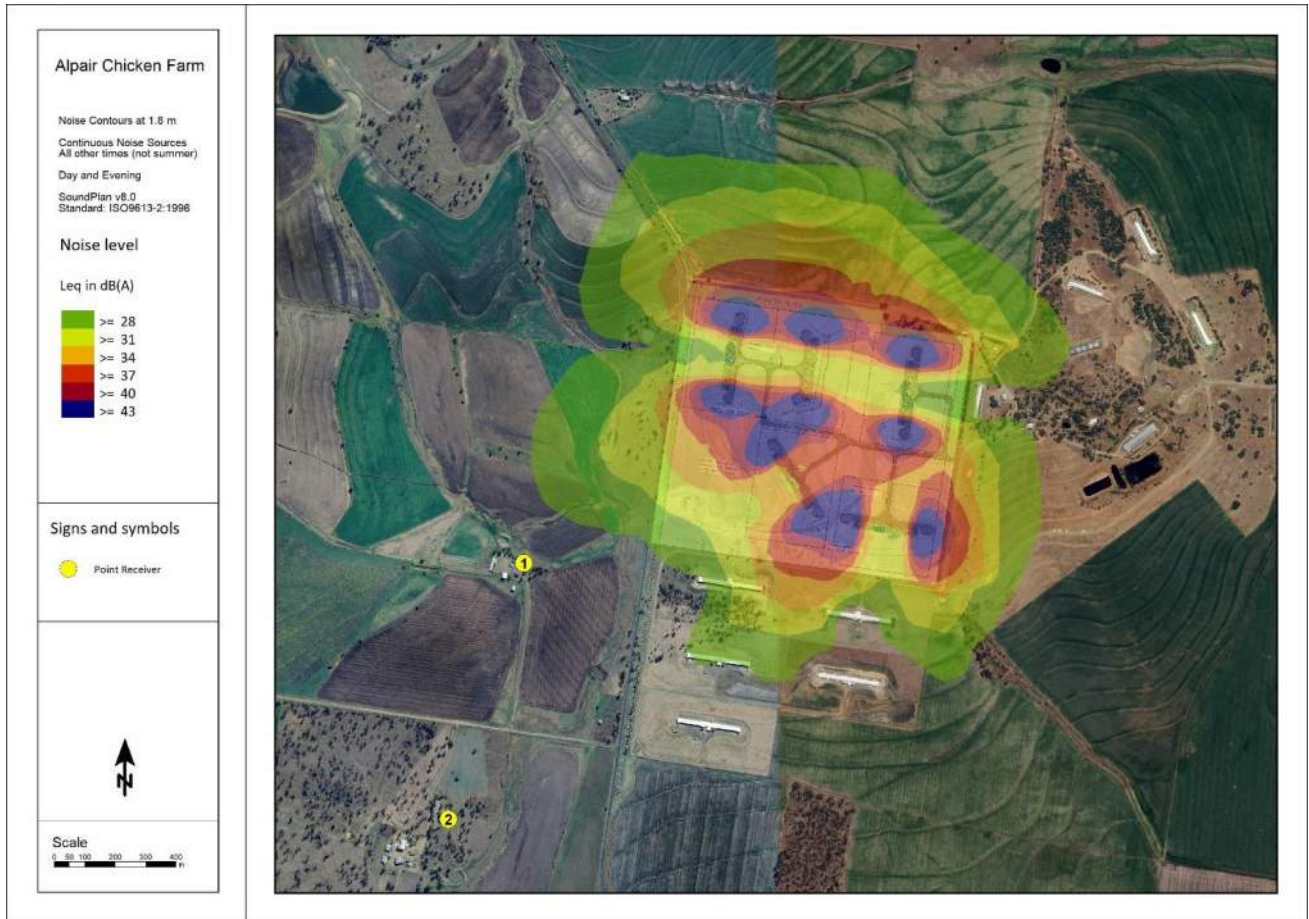


Scenario 1 – Noise contour diagrams at 1.8m for continuous noise levels during the day and evening periods. Levels are in dB(A), L_{eq} and L_{90}

Scenario 2 – Typical Operations Scenario

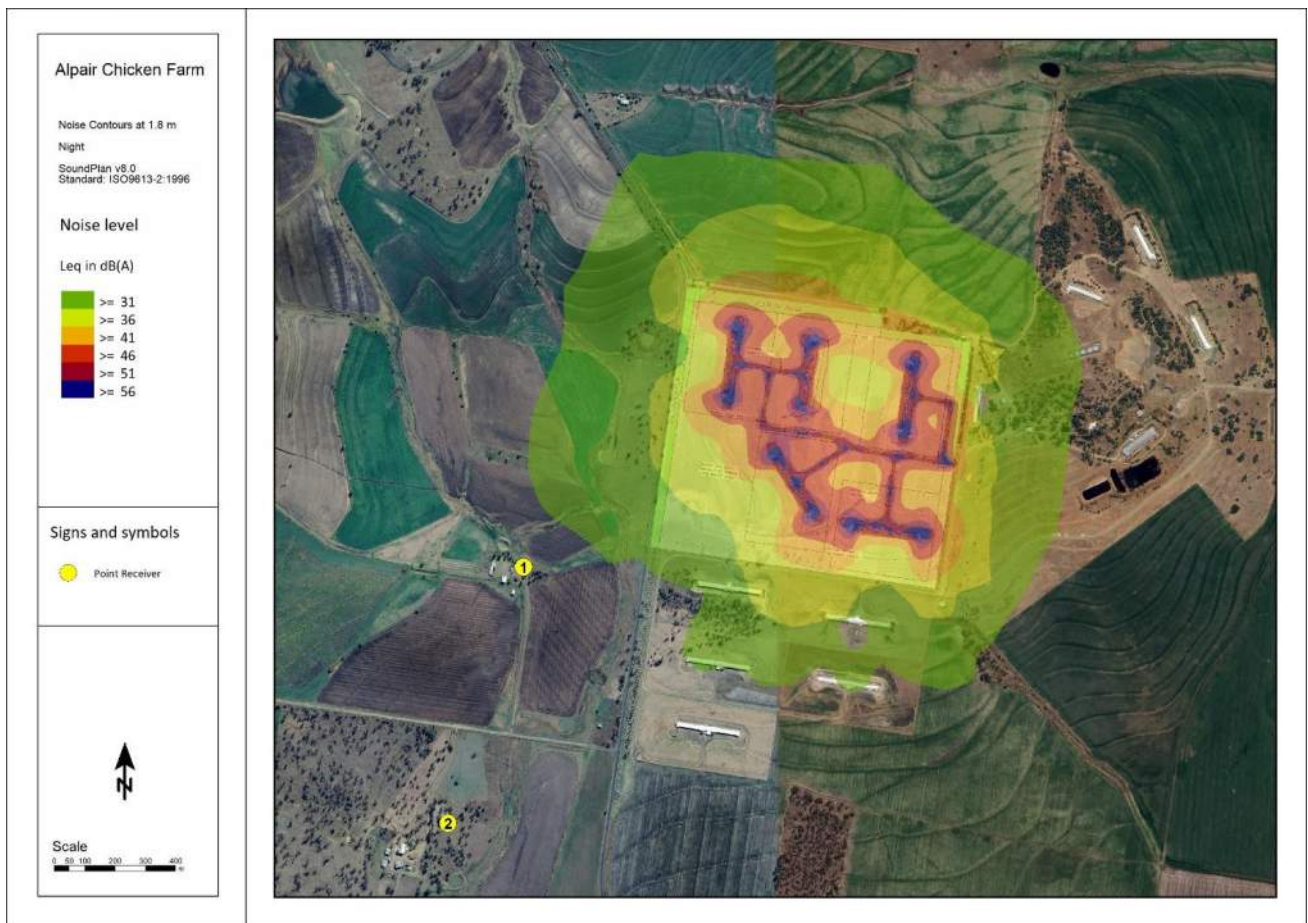


Scenario 2 – Noise contour diagrams at 1.8m for cumulative variable and continuous noise levels during the day and evening periods. Levels are in dB(A), L_{eq}

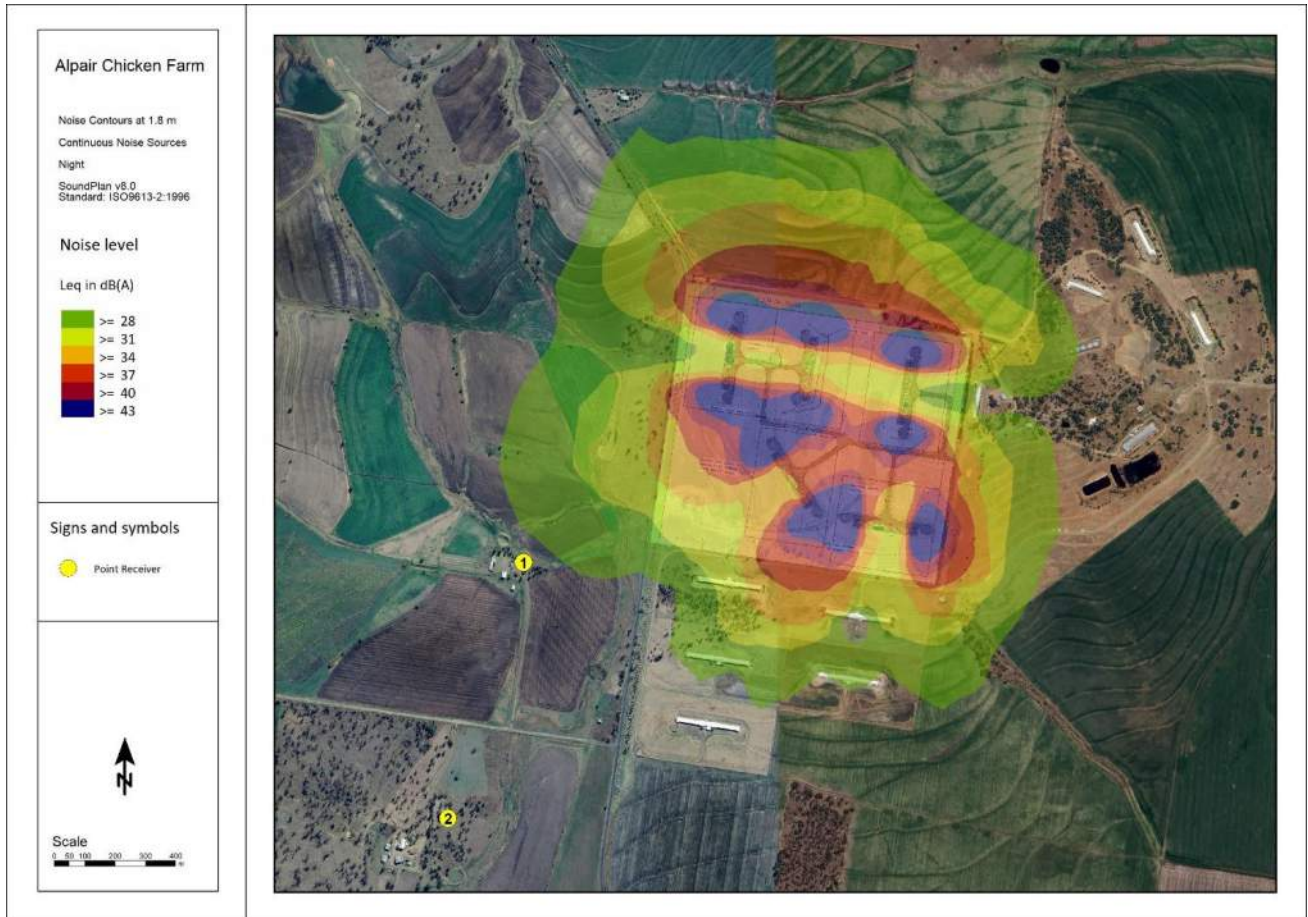


Scenario 2 – Noise contour diagrams at 1.8m for continuous noise levels during the day and evening periods. Levels are in dB(A), L_{eq} and L_{90}

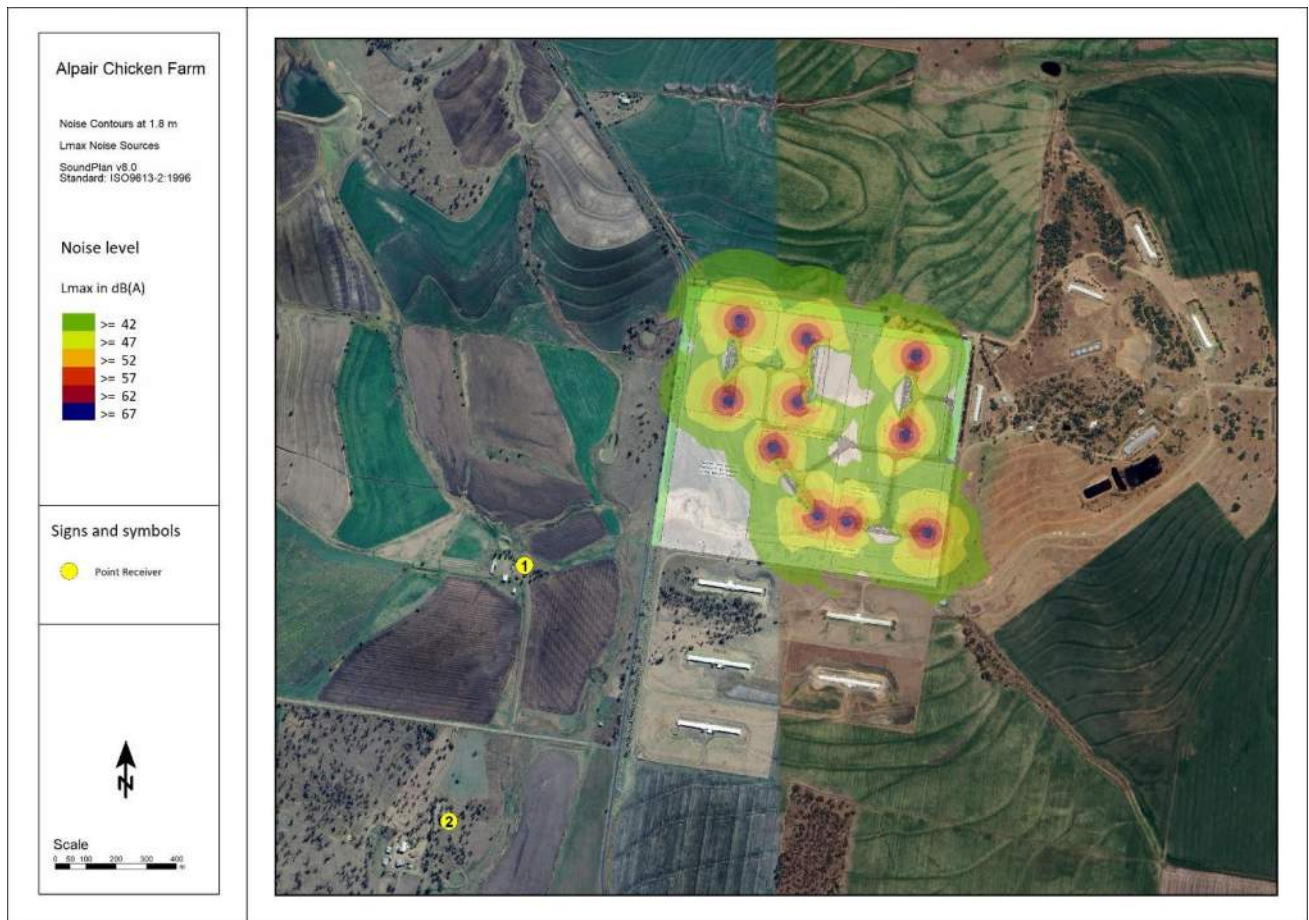
Scenario 3 – Night-time Operations



Scenarios 3 – Noise contour diagrams at 1.8m for cumulative variable and continuous noise levels during the night-time period. Levels are in dB(A), L_{eq}



Scenarios 3 – Noise contour diagrams at 1.8m for continuous noise levels during the night-time period. Levels are in dB(A), L_{eq} and L_{90}



Scenarios 3 – Noise contour diagrams at 1.8m for discrete noise levels during the night-time period. Levels are in dB(A), L_{max}

Appendix E Toowoomba Airport Daily Maximum Temperatures 2014-2024

2014											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
29.8	25.6	27.5	24.8	22.2	19.4	15.1	23.5	22.4	29.8	33	27.9
33.8	26.6	28.3	25.8	19.5	22	16.8	15.1	23.5	21.6	29.8	26.1
39	26.3	24.2	26.1	14.7	18.4	18.3	16.1	16.2	25.8	23.2	30.3
39.5	28.1	24.9	25.7	14.7	20	16	15.9	17.4	24	24.6	29.9
32.8	25.5	25.5	26.6	16.8	20.4	19.8	17.3	18.9	26	27.3	26.8
34.3	25.3	27.2	26.6	16.2	20.7	13.7	17.2	18.8	26.7	29	25.4
28.2	25.3	26.4	23.1	18.6	19.4	13.4	19.3	18.7	29	27.8	29.1
26.7	27.2	26.2	22.9	19.1	17.9	17	17.8	19	31.5	27.7	29.7
23.8	28.8	25	22.8	18.8	16.9	18.6	19.1	20.8	23.8	31	28.5
24.5	28.8	25.9	22.2	19.4	18.2	13.4	20.4	24.6	23.8	29.4	29.3
27.7	27.7	25.7	26.6	20.8	17.3	15.5	20.4	24.2	25.1	31	28.9
29.2	28.9	27.4	26.6	20.3	18.3	15.1	18.4	22	25.8	28.7	21.2
27.6	30	26.9	18.6	19.9	17.8	15.7	17.6	20.4	27.4	29	20.7
28.2	31.9	26.8	21.4	19.5	15.3	16	17	21.3	20.1	33.6	23.8
28.3	36.9	28.1	21.5	20	13.1	15.7	16.4	24.1	20	37.4	27.8
28.8	35	33.2	23.3	19.9	13.5	17.9	12.6	26.4	23.2	33.6	31.9
28.6	34	33.1	24.1	19.7	17.5	15.4	15.5	23.4	25.2	34.5	34.2
28	29.4	29.8	23.5	19.6	18.1	12	12.9	21	23	32.2	32.6
32	32	28.7	23.1	19.1	16.1	13.3	16.2	21.7	23.8	30.1	28.9
35	29.5	27.3	24.6	18.9	18.1	17.1	19.3	22.5	27	29.1	26.9
38.6	30.7	26.9	25.6	21.1	20.3	17.7	18.7	18.2	22.9	32.8	25.8
35.8	22.9	27.9	23.7	19.8	19	18.8	13.1	17.8	23.2	35.6	26
	26.6	28.4	23.9	21.6	19.4	17.3	14.5	20.4	28.4	34.1	25.4
26.8	26.6	25.7	25.3	21.2	15	18.5	18.9	21.8	28.3	32.2	28.4
28.2	27.2	21.7	24.8	23.7	15.8	19.8	19.3	23	32.3	33.4	27.6
25	27.7	20.3	23.4	23.1	17.6	19.3	19.5	21.9	34.9	29.4	27
24.5	29	19.6	24.9	22.2	20.6	18.2	15.7	23.3	36.4	30.9	20
23.8	27.6	27.1	20.5	23.4	20.7	18.1	18.9	21.6	35	24.4	22.7
23.2		29.1	20.8	24.3	13	19.2	18.4	25.6	32.5	25.8	27
24.8		24.3	23.4	19.1	12.5	20.7	20.1	27.5	30.4	27	30.2
23		26.2		17.9		21.6	21.7		31.8		32.1

2015												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
28.9	29.9	28.8	20.3	13.7	14.6	18.7	22.8	19.3	26.1	23.9	30.2	
27.8	27.2	27.4	24.2	19.3	14.9	13.5	23.1	23.6	25.4	26.5	21.4	
24.9	26.3	26.6	21.5	18.1	15.3	15.4	22.3	18.7	24.9	30.8	23.3	
26	26.2	29.2	22.6	24	17.3	18.8	17.3	20.1	28.4	29.8	23.2	
25.4	26.2	34	22.7	24.2	15.1	18.6	12.3	20.1	31.1	29	25.2	
26.1	25.8	27.1	27.5	25.4	18.1	19.6	13.6	20.6	28.5	28.8	26	
24.7	25.1	28.6	24.6	21	18	18.1	15.5	22.5	28.7	29.9	28	
25.8	29.2	29	20.4	19.9	18.6	16.5	16.8	22.1	22.1	24.4	28.5	
27.5	28.2	29.6	23.9	18.8	20.2	16.1	17.5	19.2	22.5	22.3	30.1	
28.2	26.9	29	22.8	20	19.4	16.5	20.4	20.5	22.8	25.1	31.6	
28.1	24.1	27.5	23.1	19.7	15.9	17.2	23	19.5	24.6	22.1	32.8	
26.4	27.7	27.7	25.7	21	17.2	12.6	24.1	20.6	28.2	23.6	20.6	
27.7	27.5	27.7	23.7	19.1	16.6	11.2	16.2	20.8	29.2	26	22.6	
27.1	27.5	26.5	22.8	15.4	17.9	12.8	17.8	21.5	25.5	23.3	27.6	
30.2	27.4	29.6	23.4	18.9	17.8	13.3	18.3	23.8	24.7	24.3	28.5	
32.2	27.5	26.1	24.1	19.7	16.1	13.3	18.7	25.9	24.3	23.3	20.8	
33.1	27.3	26.1	24.3	19.1	15.7	8	19.7	20.5	27.6	23.6	24.5	
33.7	27.3	27.2	24.3	19.9	17.5	14.2	18.6	18.1	25.9	27.1	25.9	
31	25.9	34	23.5	19.2	14.8	15.9	18.1	19.2	24.5	31.7	26.6	
26.6	21.8	33.3	15.1	23.6	15.4	16.3	19.3	20.4	24.9	33.5	27.2	
27.8	26.7	24.9	14.9	17.1	15.5	16	17.5	21.4	27.9	32.7	28.5	
23.3	27.8	25.1	17.8	12.4	17	15	21.6	24.6	29.3	24.7	28	
23.1	28.3	25.5		18.1	16.7	17.2	23.2	17.5	26.3	31.2	28.9	
26.7	27.7	29.1	24	18.5	17.8	20.8	23.6	18.7	22.7	29.1	21.6	
32	27.3	31.2	25.7	18.7	16.2	19.1	19.8	18.7	25.2	28.2	25.1	
30.8	27.3	30.6	16.5	17.8	18.5	17.2	21.6	19.7	28.4	32.9	28.7	
27.4		28.1	20.8	19.6	18	15.6	14	20.9	29	30.7	24.6	
21.4	27.8	26.6	20.9	21.4	19.2	16.3	17.7	22.5	16.7	28.7	23.3	
26.6		25.9	19.9	22.4	15.1	16.9	18	24.2	18.1	28.8	23.2	
27.4		23	13.6	23.2	18.1	18.4	16.3	24.6	22.2	31.1	25.2	
29.9		23.4		20.7		19.4	17.6		22.7		25.6	

2016											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
26.3	32.8	27.2	26.3	25.9	16.6	16.5	21.3	20.9	20.8	26.5	33.4
28.4	29.4	29.4	29.4	25.2	18.2	16.4	19.7	22.6	24.8	26.2	36.2
21.8	28.5	28.1	27.9	23.4	18	17.7	11.3	16.8	19.8	24.1	37
23	24.5	27	25.6	23.9	16.8	18.1	16.1	18.7	18.8	27.9	33.1
19	23.5	27.3	24.9	23.8	10.4	15.9	16.5	18.8	20.9	30.7	36.2
25.7	25.2	27.6	26	24.5	13.7	10.9	17.9	19.3	23.3	27.9	36
27.7	25.2	26.7	30.3	23.2	17.1	10.8	18.8	19.2	26.8	31.3	30.8
27.2	26.7	27.7	26.1	24.3	18.9	12.6	18.8	20.6	26.4	30.8	30.2
27.2	26.7	24.2	26.8	26.6	27.9	16.3	18.3	16.8	24	31	26.1
27.9	26.8	28.1	30.3	19.9	18.4	18.6	21.5	19.2	27	30.7	24.8
30.1	27.5	26.7	25.8	19.8	17	20.1	18.2	20.3	22.9	29.8	24.9
32.3	27.9	27.3	24.1	20.5	17.4	19.9	18.6	22.4	22.2	32.8	26.2
31	27.2	27.1	24.3	23.5	17	13.4	17.6	23.2	21.4	31.2	27.2
30.3	30.6	26.8	22.9	22.7	18.6	11.3	18.7	23.7	19.7	23.2	30.3
29.8	32.6	27.1	23.4	24.4	16.7	13.8	18.3	20.9	20.7	23.6	33.5
20.2	36	27.7	23.9	25.3	17.9	12.6	18	16.2	23.6	27.5	27.1
25.9	33.9	26.3	24.6	27	17.9	18.5	18.6	21.6	25.7	26.4	31.9
25.9	33.2	29.7	25.1	26.5	17.4	18.6	17.8	18.4	22.4	25.7	32.5
29	31.6	28.9	24.6	23.8	16.9	22.5	19.9	17	24.5	27	26.6
31.7	27.7	27.3	26.1	24.7	13	23	20.5	22.1	25.1	28.1	28.9
32.8	27.4	26.8	25.5	22.4	14.3	22.5	20.1	19.9	25.8	27.4	31.5
34.2	27	25.4	27.7	22.3	15.4	24.5	20.6	18.2	24.3	26.4	27.5
31.6	26.9	26.7	27.2	24.3	13.8	23.4	19.7	18.2	16.4	31.5	25.7
30	26.9	26.7	23.8		15.2	18.3	17.2	21.3	21.4	31.7	27.8
27.5	29.7	27.9	22.6	23.9	11.5	17.1	13.6	22.4	24.7	30.1	26
27.3	34.3	29.5	24	26.6	12.7		13.7	20.8	26.8	25.8	27.7
26.9	30.7	21.4	24.5	19.4	8.9	16.3	15.1	20.5	27.8	27.6	28.5
26.5	29.1	25.7	24.8	17.2	11.4	17.1	18.8	22.9	24.7	28	28.5
31.4	28.8	28.1	22.5	16.7	16.8	18.7	21.7	18.4	26.4	29.5	31.1
29.9		25	26.2	19.5	18.2	18.7	19.3	18.2	27.1	30.4	34.4
30.5		26.8		17.2		20	19.2		28.4		36.7

2017											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
35.1		28.7	23.3	21.4	16.9	16.6	18.5	21.3	20.7	23	25.5
31.5	37.2	29.3	22	22.9	17.9	16.5	17.6	22.8	15.6	24.8	26.6
24.8	32.6	28.5	21.8	23.8	18.1	19.5	18.8	25.2	22.4	26.8	25.5
26.5	32.8	26.8	21.3	20.6	18.1	21.5	16.4	25.8	26	28.6	20.1
27.3	32.1	29	21.3	20	19.4	21.8	17.3	21.5	28	26.9	26
27.4	33	30.4	19.5	19.8	16.5	18.9	21	20.3	30.3	26.8	26.7
24.3	31.9	30.1	21.4	21.8	14.3	15.9	20.8	20.6	18.8	26.7	29.9
26.3	30.5	23	22.4	18.6	16.5	16.1	16.4	19.8	22.6	22.3	27.1
27.9	31.6	27.7	23.3	18.4	19.6	17.6	20	20.7	28.9	21.7	28.7
31.1	34.8	28.5	22	15.4	18.5	14.5	22.8	22.8	30	20.3	25.3
32.5	39.5	30.5	22.5	19.9	15.4	17.6	25.3	24.9		21.1	25.8
33.1	40.8	30	24.1	19.3	18.8	16.4	24.7	26.4	22.9	22.5	25.6
32.2	36.5	22.7	22.8	18.1	16.1	16	24.4	29.6	27.5	22.3	26.5
36.4	28.6	24.1	22.2	20.6	19.3	18.2	22.8	17	22	23.5	28
29.8	28.4	24.9	22.3	21.6	19.5	21.3	25.7	20.8	17.2	24.8	29.1
28.9	30.1	29.2	22.2	20.9	18.5	18.6	27.8	22.4	19.1	25.8	29.3
30.7	33.2	29.9	22.3	20.3	18.8	20.5	26.7	22.2	17	24	29.2
35.3	35.8	27.2	22	18.1	18.9	22.5	19.5	23	19.1	18.4	29.1
31.1	26.5	26.7	22.2	15.8	19.3	13.8	13.9	26.7	21.2	22.1	31.8
34.4	28	25.5	21.3	22.2	18.2	14.9	17.5	26.2	23.1	23.3	34.4
31.8	29.5	23.3	21.1	22	18.2	15.5	19.4	27.4	16.1	23	30.7
25.1	27.9	23.4	19.5	21.5	17.9	17.7	22.8	28.9	21.6	22.5	29.3
26.8	28.1	25.9	21.3	23.2	19.2	18.5	23.8	31.1	20.2	24.3	29.3
32.1	29	27.1	21.6	24.6	20.3	20.2	22.9	33.3	22.5	26.2	32.5
31.6	28.9	25	22.9	20.7	21.7	18.7	18.6	32.5	25.8	26.9	32
33.8	28.2	28.4	19.3	20.7	21.3	20.9	19.6	28.5	29.4	27.2	28.4
28.7	26.5	25.5	15.8	20.3	18.2	21.2	19.2	27.8	24.4	27.5	26.9
28.9	27.7	26.7	19.5	21.3	20.8	22.5	16.6	34.9	26.8	27.1	27.9
30.4		25.3	21.3	20.7	21.2	21.1	19.2	31.1	30.3	21.6	28.9
		22	20.5	19.4	15.9	23.6	20.1	26.3	31.7	23.2	30.2
32.8		21.8		16.5		22.9	20.6		22.9		30.2

2018											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
30.6	18.7	30.9	26.3	22	17.9	18.9	20.4	20.6	21.3	26.1	31.7
29.1	16.4	27.5	26.9	19.9	17.3	18.4	18.6	21.5	22.4	26.8	35.4
32.5	20.4	28.8	24	22.8	20.1	19.3	20.1	20.1	24.9	29.1	33.6
28.3	25.5	28.4	24.3	25.5	20.5	20	21.3	19.5	26.3	34.4	27.7
28	26	25.8	24.9	24.6	18.8	17.5	25.4	18.4	16.6	36.1	26.8
29.5	26.5	18.9	25.6	21.4	17.9	19.1	24.7	21.2	20.7	35.1	25.1
31.4	26.2	21.5	24.7	21.1	16.6	19	16.4	24.3	22.1	33.4	24.1
32.1	26.2	23.7	25.2	19.6	17.9	14.1	17.5	21.9	25.6	21.1	22.9
32.3	30.3	22.9	28.1	23.4	21.5	15.5	18.6	21.6	25.6	22.5	26.9
30.5	34	23.1	27	23.9	20.6	16.8	18.8	23.6	29	24.4	28.6
30.5	38.4	23.7	24.4	17.2	18.2	16.4	21.6	20.6	20.6	24.8	28.8
32.7	36.3	24.1	23.7	16.5	20.8	18.1	17.2	21.8	16.1	25.1	29.8
37	33.8	23.9	26.3	18.9	22	15.2	17.3	25.7	14.5	26	31.4
31.7	37.5	24.8	24.4	20.9	19.2	16.1	21.8	26	19.4	26.3	30.6
29.7	36.6	26	29.1	21.1	18.1	16.7	23	28.2	22.1	29.1	29.7
28.3	35.5	28.1	28.6	20.3	18.1	18.6	24.3	21.3	21.8	30.2	22.6
29.8	28.7	28.1	28.8	19.8	14.3	19.7	23.6	20.1	23.7	30	26.5
30.4	30.4	27.7	20.9	21.2	12.2	20.7	22.4	22.7	24.1	23.2	26.6
33.3	33	28	23.8	21	13.8	22.1	15.6	27.3	23.9	23.8	28.9
30.6	24.4	26.6	23.1	20.1	17	17.9	14.7	23.9	26	26.3	33.6
28.1	23.1	25.7	23.4	20.5	18.1	15.7	17.7	20.7	21.5	29.9	35.9
30.5	21.4	23.6	23.2	19.5	17.8	15.9	18.5	22.1	25	25.1	30.5
30.6	22.6	23.8	23.9	20.9	18.5	18.9	20.2	25.1	27.3	22.9	25.1
31.6	27.4	24.8	24.1	19.6	18.4		20.8	22.8	29	24	24.8
32.5	29.7	25.8	24.7	19.3	17.4	20.9	19.3	16.9	26.5	27.4	26.2
31.7	31.1	29.4	26.9	19.4	17.5	22.3	19	22.5	30.4	28	27.1
31	23.1	26.7	23.7	19.4	12.1	23.1	18	24	28.1	29.4	27.6
29.1	26.8	27.3	21.8	19.7	16.9	23.7	19.6	25.6	29.3	29	28.5
26.6		24.7	21.6	20	19	22.9	19.3	27.5	17.7	27.2	28.6
30.1		25.3	21.9	22.3	22.3	16.9	21.6	17.5	22.7	29.6	29.7
35.3		26.4		16.5		19.6	24.5		25.9		29.5

2019											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
30.9	31.3	25.3	21.5	20.8	16.1	19.2	16.4	22.3	22.3	24.4	30
30.4	29.5	25.2	23.6	22.4	15.2	20.6	18.1	23.7	21.9	24	28.4
31	25.9	23.6	23.1	21.6	15.3	18.9	19.1	25.5	25.1	27.2	28.6
29	25.7	26.7	23.4	19.2	8.7	19.2	20.2	28.4	27.2	29.3	32.5
30.4	29.5	28.4	23.3	18.6	15.5	15.8	18.8	29.5	31	22.6	33.8
30.5	24.5	31.5	23.9	20	17.4	15.8	19.7	30	30.7	28.3	36.2
24	25	30.9	26.3	21.5	18.2	17.3	18.8	20	35.8	32.2	37.3
22.7	28	28.5	26.8	22.2	14.7	16.1	23.6	18.4	35.4	33.5	32
23.8	32.5	30.6	27	22.5	19	18.7	18.9	16.1	26.1	24	31.7
29.1	34	34.1	24.4	23.3	20.6	17.7	16.8	19.3	21.4	27.1	35.5
29.7	33.8	35.2	21.6	15.6	21	19.2	14.3	19.5	20.2	30.2	36.3
30.5	35.7	35.5	21.9	19.3	20.7	19.7	15.5	22.4	18.5	33.6	35
30.3	38.1	34.8	22.6	20	20.7	17.5	18.3	25.3	23	31.3	31.5
31	30	29.9	22	20.8	22.4	14.2	19.9	26.5	27.2	30.6	34.8
33	29.4	32.2	22.3	20.1	23.1	12.8	22.8	24.3	26.8	32.6	36.3
33.4	28.3	22.6	22.7	20.7	19.7	17.3	21.6	26.9	31.3	35.6	38
32.1	29.8	24.9	22.7	18.5	16.3	18.5	23.3	28.7	33.6	34	29.3
31.5	30.6	27.5	23.8	20.5	18.2	16	22.9	21.9	30.4	27.1	28.6
35.3	36.6	29.4	23.7	20.2	17.8	18.5	20.1	23.9	24.4	32.5	30.7
32.4	33.8	31	22	19.5	17.8	18.2	18.6	23.8	27.7	36.5	32.8
31.5	32	28.9	22.4	20.5	15.1	19.1	18.8	25	23	31.4	35.1
31.8	28.6	29	21.5	20.6	16.2	21.2	19.1	26.3	24	30.1	30.3
34.3	29.3	30.4	20.6	20.7	16.4	22.4	18.5	27.4	25.4	29.7	29.3
33	27.2	32	22.6	20.4	15.2	20.8	20.6	23.4	28.2	30.1	32.1
31.5	25.6	30.6	22.7	21.5	16.3	19.7	23	24	27.2	31	26.3
33.1	26.5	24.5	24.1	21.5	14.2	19.7	24	22.3	30	32.3	27.3
33.9	27.3	17.7	25.9	22.6	18.2	21.2	22.4	25	31.8	33.8	26.6
31.8	23.4	22.3	25.1	16.1	18	20.1	15.7	27.1	26.8	29.8	27.3
30.3		24.3	22.4	17.4	18.3	19.6	16.3	28.5	26	32.7	29.6
31		21.7	19.1	16.3	20.9	21.2	19.1	27.4	21.9	34.8	28.8
31.5		20.5		14.6		18.5	19.7		26		30.5

2020												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
32.7	30.5	28.8	26.7	15.6	21.9	18	18.4	23.6	26.6	26.3	35.7	
32.2	32.5	30.9	26.3	17.2	14.1	19.8	18.9	22.7	28.9	25.2	36.1	
32.8	35	29.6	29	18	15.9	20.9	19.5	22	25.4	24.3	30.9	
33.4	22.8	24.6	24.2	21.7	17.7	13.7	19.1	22.9	24.4	27.7	35.6	
33.9	18.8	27.3	23.9	20.8	18.7	15.3	22	24.4	25.1	32.1	36.9	
30.9	20.2	26.5	25.4	20.4	20.1	17.1	23.1	21.6	25.4	25.5	37.4	
31.4	24	28	24.5	21.3	18.5	18.6	16.1	20.1	25.8	25.6	29.6	
32.9	25	24.8	24.2	22.9	18.8	19.2	17.1	21.5	28.4	20.5	25.5	
33.3	27	18.1	23.7	24.6	19.3	13.7	13.1	21.3	29.8	23	27.8	
33	26.8	22.2	23.2	20.4	18.5	15.2	9.7	17.3	28.1	24	29.2	
35.9	25.7	23	26	20.5	21.6	20.3	18.5	19.4	25.5	25.9	20.3	
27.5	26.1	23.1	25.5	19.5	20.5	16.1	20.3	19.8	23.9	26.6	22.5	
27.5	22.9	23.7	24.1	20.4	20.7	14.8	22.9	22	24.2	25.3	21.6	
28.3	26.9	24.9	24.2	20.8	17.8	11.2	24.7	24.6	23.2	32.1	22.3	
30.7	29.8	23.9	24.5	21.1	19	15.3	18.8	23.1	24.1	34.1	26.6	
27.2	29.3	22.8	27.3	20.6	19.7		16.9	22.4	28.9	33.2	27.9	
26.9	28.4	23.5	30.6	20.6	18.4	18	15.8	24.7	27.8	32.3	28.9	
25.2	28.9	24.1	21.8	20.5	18.4	18.8	19.5	23	29.2	26.8	30.7	
27.2	30.6	25.4	24.7	20.6	17.2	19.9	20.8	22	24.1	27	30.2	
32.7	28.6	27.2	24.4	17.6	16	18.8	17.2	24.9	25.8	29.2	31.5	
34.1	27.9	30.2	27.1	16	20.5	16.4	17.4	29.7	20	30.3	27.7	
34.3	25.6	30.9	27.5	10.8	14.6	13.3	16.7	27.3	22.6	30.1	27.8	
30.3	19.2	26.4	24.9	11	14.4	14.1	14.5	27	24.3	33.9	27	
28.8	24	21.8	26.3	12.3	13.9	16.5	15.9	23.4	20.1	34.9	25.3	
30.6	26.4	24.1	24.2	18.7	15.9	15.3	17.2	27.5	26.8	26.8	26.4	
28.2	27.3	25.4	26.1	19.1	18.3	17	17.8	18.7	25.1	30.6	25	
28.7	29.7	23.9	25.5	21	18.4	14.1	19	20.1	23	28.9	26.9	
29.6	29.6	25.3	23.4	22.2	16.3	15	20.7	20.9	22.3	32	29.7	
33.4	27	25.5	23.8	20.9	17.4	17.3	19.1	21.1	25.3	35.2	27.3	
		28.5	28	19.5	16.8	18.9	19	19.9	29.2	33.5	22.1	
30.1		29.2		20.7		18	22.4		28.5		26.4	

2021											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
26	27.6	26	22.1	20.3	19.9	15.8	24.8	23.6	23.2	19.8	24.1
26.4	23.3	34.4	23.1	19.1	17.7	15.9	24.1	20.3	22.7	21.7	26.4
27.7	26.9	26.8	20.3	21.3	15.5	14.7	19.6	19	26.2	21.3	28.7
25.2	28.6	23.8	17.7	22.8	15	16.4	13.3	20.6	29.3	22.2	29.2
29.1	28.3	29.9	20.6	14.5	16.4	13.6	14.2	17.9	24.2	22.1	24.4
31.6	30.9	29.6	19.6	16.3	16.6	15.5	16.8	17.6	25.3	22.7	24.7
21.7	31.9	28.2	23.3	19.2	17.2	16.6	18.2	19.2	27.4	24.7	26.4
17.3	28.5	27	24.2	22	17.8	14.6	18	19.5	26	25.8	25.3
20.7	26.6	29.2	25.9	23.7	12.3	17.1	15.6	22	27.2	27.7	27.8
24.1	26.7	27.6	27.8	24	12.5	13.6	17.7	24.4	28.7	26.4	25.3
24.7	28.2	23.6	22.3	22.6	14.6	16.6	18.9	26	26.4	24.3	26.1
26.2	29.6	26.1	20.3	22	16.3	15.8	21.6	24.9	20.5	26.7	25.1
26.3	30.9	27.7	19.8	17.3	16.2	18.3	21.6	26	22.1	21.4	26
28.2	27.4	30.1	22.9	18.5	20.4	18.8	21.1	15.4	19.5	22.8	27.3
31.5	27.3	19.9	25.2	17.1	18.5	19.7	21.7	19.9	23.4	24.6	27.7
30.9	27.2	17.7	26.4	16.5	22.5	16.5	21.1	20.6	21.6	25.3	28.8
26.5	27.7	19.6	19.7	16.9	16.8	15.3	18.5	21.7	24.4	23.8	27
26.9	26.4	22.9	20.3	17.6	15.5	13.9	16.6	24.3	20.9	22	27.1
28.5	26.2	26.7	21.7	18.3	12.2	15.2	18.8	26	24.5	26.4	28.4
25.4	29.1	25.2	22.7	19	17	13.8	20.9	27	25.9	28.6	30.4
	32.6	25.1	24.4	18.5	18	10.1	23	15.3	23.7	22.4	30.9
25	34.7	19.5	17.8	18.9	16.9	15.6	23.4	18.3	25.7	21.5	
26.9	33.3	23.4	20.4	18.9	16.5	12.8	22.3	21.8	28.4	21.3	
26.6	28.3	24.5	21.9	18.8	17.2	15.6	14.3	24.4	28.5	24.5	30.1
27	27.7	24.8	22.1	19.1	15.2	14.6	14.3	26.7	22.3	21.7	26.9
28.7	31.3	25	20.8	21.5	11.9	16.7	15.4	22	25.6	26.7	25.6
30.3	25.9	25.6	20.6	18.1	15.6	19.8	17.6	17.8	26.7	24.1	28.7
27.6	30.9	25.3	20.8	16.4	16	20.4	20.5	17.3	30	22.6	20.6
27.8		25.2	19.8	15.7	17.3	18.5	24.3	17.6	23.2	22.7	24.4
28.4		23	20.3	17.5	16.7	16.9	22.1	21.5	28.7	20.3	25.1
28.8		22.1		17.8		21.1	24.3		21.5		24.2

2022											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
22.6	33.3	29.4	23.9	18.8	14	12.3	15.1	18.8	19.7	18.1	18.8
27.8	28.8	29.8	24.4	21.1	16	13	18.6	14.8	14.3	16.7	21.6
29.3	23.8	24.2	25.6	21.1	17.4	12.6	21.1	16.1	18.2	18.2	23.1
30.3	24.3	25.6	24	22	14.5	7.6	22.3	18.4	19.7	21.1	23.7
29.8	23.6	28.5	26.2	22.7	17.8	9.4	16.3	16.6	18.2	20.9	27.1
28.1	22.7	27.6	23.6	19.5	15.7	10.6	17	18.3	16.3	21.6	32.7
24	24.6	24.9	23	17	12.3	13.6	16.3	18.1	20.4	21.6	32.6
23.8	24.5	29.1	22.5	19.4	12.4	12.5	16.5	18.3	23.1	21.6	31.1
27.6	27.2	29.7	22	14.3	11.6	12.8	15.7	19.8	19.2	21.5	26.1
27.2	28.2	23.2	23	15.2	11.3	15.4	16.2	19.6	18	22.3	23.7
26.9	28.1	23.3	26.1	16.8	13	16.1	15.8	18.5	19.4	23.9	25.7
27.1	26.1	22.9	25.7	18.4	13.3	13.1	16.2	18	20.1	27.4	28.5
27	25.8	24.2	23.9	18.5	16.8	12.6	14.8	19.8	21.4	27.9	26
28.4	26	24.1	20.8	19.7	18.1	12.8	16.2	19.5	23.1	28.3	26.7
30.2	25.8	23.9	21.8	24.2	20.3	17.1	15.3	18.4	22.9	26	23.6
31.3	24.9	24.7	21.4	25	19.3	16.7	17	19.7	21.7	23	25.3
29.6	28.5	25.5	21	24.1	17.3	18.5	16.5	24.1	21.3	20.7	23.4
28.8	32.5	25.2	21.7	22.4	17.4	19.1	19.3	21.4	21	23.7	23.5
27.4	30	24.4	22.2	19.5	18	15.5	23	23.7	16.8	28.5	22.6
22.7	27.6	25	24.5	15.6	17.8	15.6	18.1	23.5	19.5	30.4	24.7
24.6	28.6	26.1	22.7	13.9	18.6	11.9	18	17.4	20	28.8	24.3
23.9	28.5	26.5	21.8	16.6	18.8	16.5	17.6	22.2	16.8	24.2	25.2
25	26.2	28.6	20	16.7	19	17.1	21.7	21.3	20.5	23.7	26
26.5	22.8	26.4	20	18.7	17.8	17.6	13.7	22.3	26.1	25.6	22.7
27.8	19.3	26.7	17.3	17.3	17.8	18.2	16.5	20.9	25.8	29.3	26.6
22.6	19.3	21.3	17.1	19.4	18.1	21.1	17.6	23.3	26	29.8	26.1
24.1	20.7	22.9	21.2	19.6	16.5	13.6	18.6	21.3	31.2	24	26.1
25.9	25.2	20	20.8	20.3	15.4	17.1	18.9	22.1	25.1	30.6	26.5
26.8		20.3	22.6	16	14.6	16.5	17.5	19.1	24.8	30.2	27.5
27.5		23.4	21.9	17.9	18	15.3	14.6	22.7	26	18.9	26.9
		25.8		14.8		13.9	20.3		28.7		26.6

2023											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
27.8	31	34.1	19.7	18.2	20.6	12.9	23	23.2	26.6	24.3	30
26.8	28.6	25.3	23.1	17.7	19.8	15.4	19.6	23	26.7	25.1	27.8
30	32.8	28.2	24.2	21.9	20.4	14.8	18.1	23.6	26.2	22.2	30.2
34.8	29.8	27.7	25.2	22.6	18.7	15.2	18.9	23.3	27.1	25.5	29.7
26	28.7	28.1	26	20.9	15.8	18.5	18.9	26	21.6	22.7	29.7
27.8	28.6	30.5	23	23	17.1	18.7	19.2	25.5	24.8	22.5	32.1
27.8	26.5	31.5	23.6	22	18.1	16.6	18.5	25.1	21.4	24.4	31.1
31	26.1	27.9	22.3	14.9	17.9	15.4	17.8	25.9	21.8	24.8	29.2
32.7	24.6	24	21.2	17.7	17.3	17.4	17.9	20.5	22.5	25.6	28.2
32.5	28.1	25.1	20.3	19.8	18.5	19.3	19.3	18.8	25.1	27.4	27.7
28.7	32.8	22.6	21.2	19.9	18.4	17.7	22.7	19.1	26.1	26.1	26.9
27.1	37	27.4	23.6	20.5	17.8	17.9	23.7	20.4	27.9	28.3	27.1
26.5	34.7	28.6	21.5	20.7	21.4	17.9	23.4	21.5	27.2	33.3	28.3
23	27.3	28.4	22.5	17.7	19.2	17.7	25.1	20.4	27.6	31.5	32.2
27.2	25.8	30.5	23.1	17.1	16.2	18.6	23.8	21.1	30	34.5	33.3
23.5	26.4	31.2	25.9	15.9	16.7	19.8	21.8	23.2	31.5	34.3	33.4
27.5	27.6	33.2	25.4	19.8	19.1	18.5	24.6	24.6	26	32.3	35.1
27.4	30.4	30.9	22	18.1	20.8	18	20.2	24.2	23.1	26.2	31.6
30.9	27	28.5	23.5	16.8	17.7	19.7	15.1	23.6	23.3	26.7	30.7
25.4	25.4	29	21.5	16.5	15.1	18.9	20.9	26.1	26.3	18.1	28.1
27.5	25.8	25.8	20.7	16	15.9		22.1	31.1	28.8	25.1	25.5
28.4	23.1	23.7	21.9	18.1	15.9	16.9	23	20.3	32.9	24.6	23.7
29.6	23.8	24.4	22	21.6	19.1	17.2	24.2	19.4	33.5	23.8	27.6
27.9	25.2	29.3	21.4	20.4	19	16	20.3	19.6	32.2	24.7	24.4
31	26.8	27	20.6	21.2	24.6	17.3	21	21.2	34	21.6	32.2
33.1	28.6	25.6	18.7	20.9	18.4	17.4	19.9	24.8	26.2	23.9	30.7
26.5	31.3	27.4	21.6	17.2	19.4	17.4	20.8	28	19.4	27.3	30.6
30.7	31	28.5	21.6	16.7	24.3	19.9	21.1	25.1	21.9	20.1	32.4
30.6		21.3	20.4	16.6	12.4	21.2	20.8	25.4	23.5	28.4	32.8
29.4		25.1	17.5	18.2	13.3	22.4	23.5	27.4	28.1	28.8	24.7
29.4		24.1		19.5		22.4	24		33.8		27.7

2024											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
22.1	27.2	29.5	24.3	21.3	18.6						
22.9	31.9	32.4	26.5	20.2	16						
28	29.3	24.9	28.4	18.2	14.7						
29	29.2	30.3	22.8	19.4	16.8						
27.9	29	24.1	21.1	22.8	18.5						
26	29.5	25.8	24.3	21.4	14.7						
25.9	28.2	27.2	24.7	20.9	11.5						
27.3	27.3	26.2	24.9	19.4	16.7						
27.4	25.9	26.7	23.5	20.1	17.3						
30	26.5	26.6	20.7	20	16.5						
27.7	26.4	26.9	23.1	19.4	17.6						
27.2	26.9	26.7	23	20.8	18.8						
27.9	24.8	27.3	23.6	18.4	17						
29.3	27.9	25.5	24.2	21.6	17.4						
28.6	26.4	27.7	24.1	20.6	17.4						
27.7	22.1	24.6	24.3	16.6	15.2						
29	27.6	25.8	23.8	19.7	13.3						
30.5	27.6	25.5	23.3	20	15.4						
30.6	27	27.7	23.6	17.5	16.2						
29.9	27.9	28	20.3	18.5	18.7						
31.7	27.9	25	18.4	18.9	19.8						
36	30	24.9	21	19	15.4						
24	31.3	22.7	20.3	19.7	16.2						
27.6	24.9	17	22.8	18.9							
30.9	27.8	17.8	23.1	16.8							
32.1	30	19.8	20.1	19.8							
34.7	28.2	20.1	21.3	20.7							
29.2	27.7	24.9	21.5	17.8							
27.3	31.2	25.7	21.9	20.2							
23		24.6	22.1	18.7							
27.3		24.5		21.2							

Appendix F Complaint Log

Date & Time Received	Date, Time & Method of Acknowledgment	Complaint Name & Contact Details	Nature of Complaint	Investigation Findings	Corrective Actions Identified	Date Corrective Actions Implemented	Date of Complaint Close-out Notice



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