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Goorambat East Battery Energy Storage System

Noise Impact Assessment

PREPARED FOR



DATE

24 August 2026

REFERENCE

0798824

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Goorambat East Battery Energy Storage System

Noise Impact Assessment

0798824



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ACRONYMS AND ABBREVIATIONS

Acronyms	Description
AD	Associated Dwelling
BESS	Battery Energy Storage System
dB(A)	dB(A) denotes a single number sound pressure level that includes a frequency weighting ("A-weighting") to reflect the subjective loudness of the sound level. The frequency of a sound affects its perceived loudness. Human hearing is less sensitive at low and very high frequencies, and so the A-weighting is used to account for this effect. An A-weighted decibel level is written as dB(A).
ENL	Effective Noise Level
EPA	Environment Protection Authority
ERM	Environmental Resources Management Australia Pty Ltd
FZ	Farming Zone
GED	General Environmental Duty
GESF	Goorambat East Solar Farm
GETS	Goorambat East Terminal Station
L_{eq}	The 'equivalent continuous sound level', L_{eq} , is used to describe the level of a time-varying sound or vibration measurement. L_{eq} is often used as the "average" level for a measurement where the level is fluctuating over time. Mathematically, it is the energy-average level over a period (i.e., the constant sound level that contains the same sound energy as the measured level). When the dB(A) weighting is applied, the level is denoted dB L_{Aeq} . Often the measurement duration is quoted, thus $L_{Aeq,15\text{ min}}$ represents the dB(A) weighted energy-average level of a 15-minute measurement.
LDRZ	Low Density Residential Zone
NAD	Non-Associated Dwelling
NIA	Noise Impact Assessment
Noise Protocol	Environment Protection Authority (EPA) Victoria <i>Publication 1826: Noise limit and assessment protocol for the control of noise from commercial, industrial and trade premises, and entertainment venues</i> (EPA Victoria, 2025)
NSA	Noise Sensitive Area
PPRZ	Public Park and Recreation Zone
Project	Goorambat East Battery Energy Storage System
Proponent	International Power (Australia) Pty Ltd
SPL	Sound Pressure Level
SWL	Sound Power Level
The Act	<i>Environment Protection Act 2017</i>
The Regulations	<i>Environment Protection Regulations 2021</i>
TRZ3	Transport Zone 3
TZ	Township Zone

EXECUTIVE SUMMARY

Environmental Resources Management Australia Pty Ltd (ERM) was engaged by International Power (Australia) Pty Ltd (the Proponent), which is a subsidiary of ENGIE S.A, to undertake a Noise Impact Assessment (NIA) for the proposed Goorambat East Battery Energy Storage System (BESS) (the Project), in the Benalla Rural City municipality, Victoria.

Noise Legislation

The Noise Impact Assessment for the proposed Project evaluates potential operational noise impacts at nearby Noise Sensitive Areas (NSAs) in accordance with the *Environment Protection Regulations 2021* and EPA Publication 1826.5 (Noise Protocol).

The assessment applies the equal sharing principle of Publication 1997 to the Noise Protocol noise limits to consider potential cumulative noise impacts from the co-located Goorambat East Solar Farm (GESF), while assessing the Project in isolation. The Goorambat East Terminal Station (GETS), which is operated by AusNet, is located within the GESF boundary and operates in tandem with the GESF. The GETS is considered to be part of the GESF.

Project Noise Limits were derived for each NSA based on the methodology provided in Publication 1826.5 and Publication 1997 utilising relevant land use zoning information and separation distances and noise levels predicted through noise modelling were compared against these limits.

Operational Noise Assessment

Noise levels were predicted at the NSAs through noise modelling using the environmental noise modelling software SoundPLAN v9.1, employing the ISO 9613-2 *Acoustics – Attenuation of sound during propagation outdoors* (ISO, 2024) noise propagation algorithm. A worst-case operational noise modelling scenario for the Project was developed based on the expected significant noise-generating BESS equipment from the preliminary Project design, representative sound power levels and operating modes.

Based on the indicative Project design and representative modelling assumptions, the assessment shows that the predicted noise impacts from the Project are compliant with the derived Project Noise Limits for all assessment periods in accordance with the Noise Protocol and Publication 1997.

This compliant assessment scenario of the Project is based on 256 BESS battery containers with a Sound Power Level (SWL) of 79 dB(A) (Day and Evening) and SWL of 76 dB(A) (Night) each and 64 Power Conversion System (PCS)/Inverter with a SWL of 85 dB(A) each. For the BESS equipment selected for this assessment, these SWL are achieved by implementing the following indicative noise mitigation measures as part of the preliminary Project design:

- The installation of the 'sound cover' on all proposed 256 battery containers of the Project; and
- The installation of silencer kits on all proposed 64 PCS/Inverter of the Project.

Should the quantities and SWL of the final BESS equipment be higher than those assumed in this assessment during the detailed design stage, a re-assessment is required.

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Recommendations and Conclusion

The cornerstone of the *Environment Protection Act 2017* is General Environmental Duty (GED). Part 3.2 Clause 25 of the Act states the following:

A person who is engaging in an activity that may give rise to risks of harm to human health or the environment from pollution or waste must minimise those risks, so far as reasonably practicable.

This assessment demonstrates the GED is addressed through the project-specific mitigation measures which are incorporated into the modelled noise sources' assumptions. They include the installation of the 'sound cover' on the proposed battery containers, and the installation of silencer kits on the proposed PCS/Inverter. No further project-specific operational mitigation measures are required.

Opportunities for other mitigation strategies through technology selection, localised equipment noise control among other options with equivalent or improved noise impact mitigation performance may be considered in the detailed design phase. The recommended indicative noise mitigation measures are to be reviewed and confirmed during the detailed design stage while considering final BESS equipment selection.

Should there be any changes in the design of the Project that may potentially increase noise levels at the NSAs, a reassessment is recommended prior to commencement of construction. This may include changes to the Project design with respect to equipment quantity, BESS equipment selections and the incorporated noise mitigation measures at the Project.

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1. INTRODUCTION

Environmental Resources Management Australia Pty Ltd (ERM) was engaged by International Power (Australia) Pty Ltd (the Proponent), which is a subsidiary of ENGIE S.A, to undertake a Noise Impact Assessment (NIA) for the proposed Goorambat East Battery Energy Storage System (BESS) (the Project), in the Benalla Rural City municipality, Victoria.

The purpose of this report is to demonstrate that the Project is designed to comply with the *Environment Protection Regulations 2021* (Victorian Government, 2021), Environment Protection Authority (EPA) Victoria *Publication 1826.5* (Noise Protocol) (EPA Victoria, 2025), EPA Victoria *Publication 1997* (EPA Victoria, 2021a) (Publication 1997) and other relevant EPA publications at the nearest noise-sensitive receivers. This is achieved by assessing the operational noise impacts of the Project and identifying and recommending noise control measures, if required.

This NIA is based on preliminary Project design and representative noise modelling assumptions. Where required, indicative noise mitigation measures are discussed with the aim of demonstrating compliance with the applicable regulations.

This NIA excludes a construction noise assessment, which is expected to be prepared by the appointed construction contractor, to inform the Construction Noise and Vibration Management Plan of the Project which will be prepared in accordance with EPA *Publication 1834.2*, prior to commencement of any physical works.

2. PROJECT OVERVIEW

The Project is a proposed battery energy storage facility of up to 200MW and up to 6 hours duration (up to ~1200MWh), to be co-located with the 250MW Goorambat East Solar Farm (GESF), which became operational in August 2026, located in Goorambat approximately 12 km north of Benalla, Victoria. The Project locality, including the BESS Area, is shown in Figure 2-1.

The Project will provide fast-response storage to support network reliability, integrate renewable generation and reduce curtailment by storing excess energy and discharging during peak demand. Some enabling infrastructure from GESF will be used, but is not part of this application.

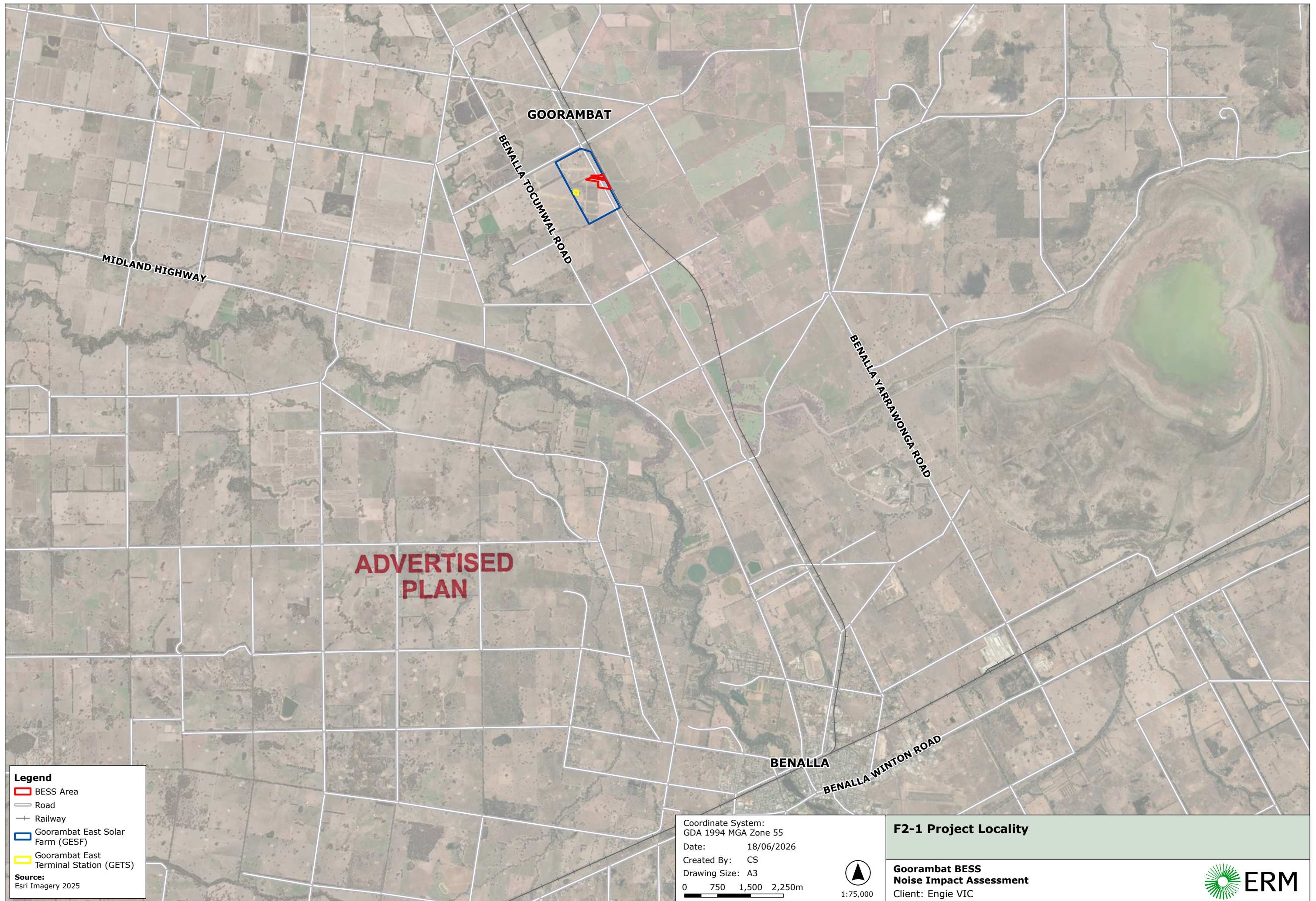
Key proposed infrastructure and components (preliminary design):

- Modular lithium-ion (LFP) battery enclosures within fenced compounds;
- Power conversion systems (inverters/PCS) and MV step-up transformers;
- 33 kV internal collector network (mostly underground) to a BESS 33 kV switchroom and control building;
- Fire safety systems (hydrants, water supply tanks and fire-breaks) designed in consultation with the CFA and to relevant Australian/International standards;
- Security fencing, CCTV, low-spill lighting compliant with AS 4282;
- Internal access tracks, laydown areas, temporary construction compounds and stormwater/drainage controls;
- Operational and maintenance facility, car parking, and business identification Signage; and

- Landscape mitigation measures (native vegetation plantings, visual screening).

The Project will connect to the existing Goorambat East Terminal Station (GETS) (constructed for GESF and as shown in Figure 2-1) via an AC-coupled 33 kV interface. The GETS, which is operated by AusNet, is located within the GESF boundary and operates in tandem with the GESF. The GETS is considered to be part of the GESF. The concept envisages a new/augmented 33 kV connection from the BESS collector to GETS, progressing the standard National Electricity Rules connection pathways. Detailed connection strategy is to be confirmed with AEMO, VicGrid and AusNet.

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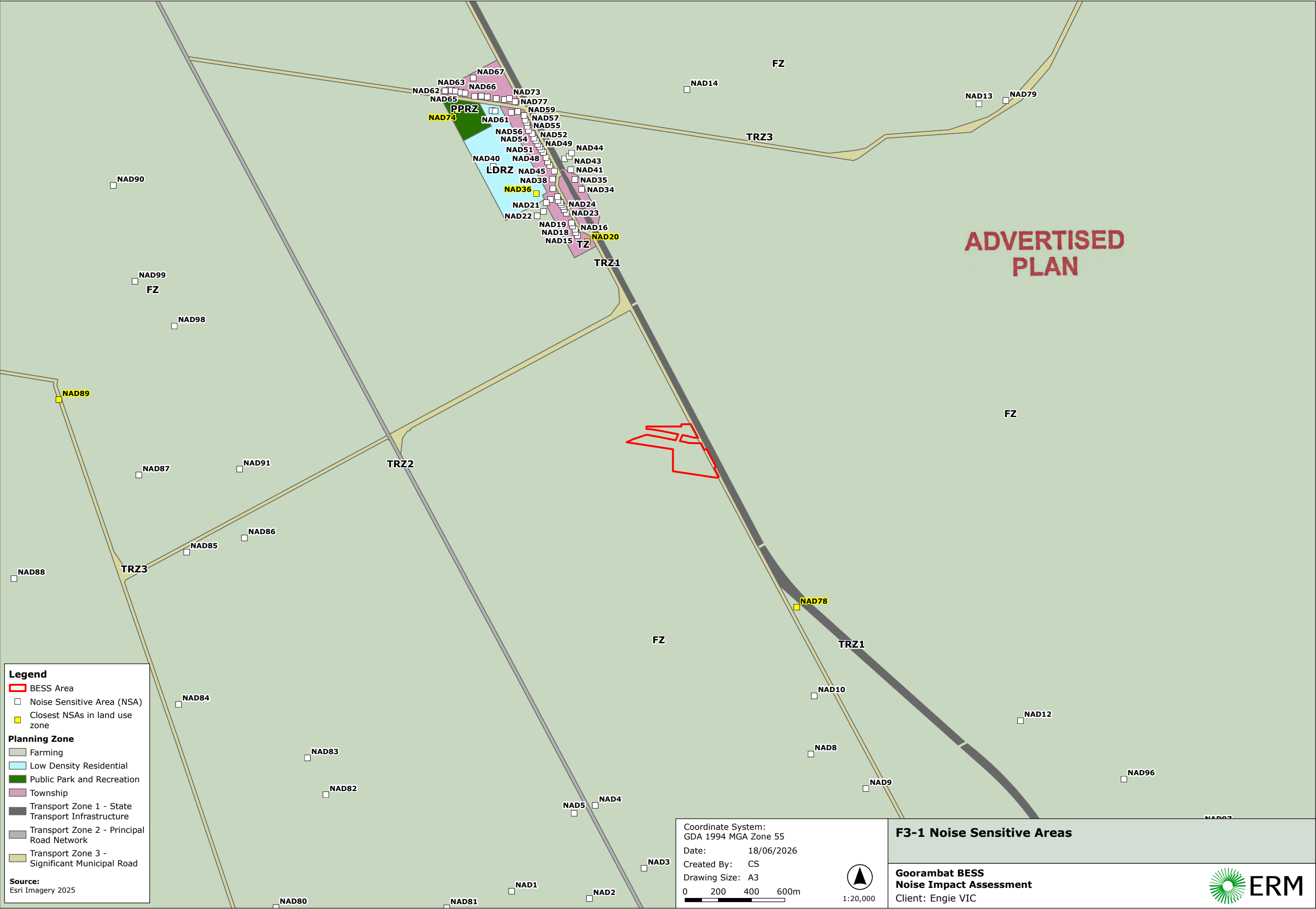
3. NOISE SENSITIVE AREAS

The noise environment in the vicinity of the Project and at Noise Sensitive Areas (NSAs) is best described as 'rural' or an area with an acoustical environment that is dominated by natural sounds, generally characterised by low background noise levels, away from any significant road traffic noise source. However, NSAs located close to the GESF (and the GETS which is part of the GESF) will be influenced by noise generated when operational.

The full list of NSAs which have the potential to experience operational noise impacts associated with the Project are provided in Appendix A.

The locations of the identified NSAs relative to the Project are shown in Figure 3-1. The closest NSAs within each land use zone to the Project are also identified in the figure.

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4. NOISE LEGISLATION

4.1 ENVIRONMENT PROTECTION ACT 2017

The *Environment Protection Act 2017* (the Act) (Victorian Government, 2017) sets out the legislative framework for protecting human health and the environment from pollution and waste in Victoria. The revision current at the time of writing is Version 021, effective 22 October 2025.

Part 7.6, Division 2, Clause 166 of the Act states the following:

A person must not, from a place or premises that are not residential premises—

(a) emit an unreasonable noise; or

(b) permit an unreasonable noise to be emitted.

4.2 ENVIRONMENT PROTECTION REGULATIONS 2021

The *Environment Protection Regulations 2021* (the Regulations) (Victorian Government, 2021) are given effect by the Act. Part 5.3, Division 1, Clause 113 states the following with respect to this NIA:

A person who conducts a prediction, measurement, assessment or analysis of noise within a noise sensitive area for the purposes of the Act or these Regulations, must conduct the prediction, measurement, assessment or analysis in accordance with the Noise Protocol.

4.3 EPA PUBLICATION 1826 (THE NOISE PROTOCOL)

EPA Victoria *Publication 1826: Noise limit and assessment protocol for the control of noise from commercial, industrial and trade premises, and entertainment venues* (the Noise Protocol) (EPA Victoria, 2025) provides a protocol for determining noise limits for new and existing commercial, industrial and trade premises and entertainment venues. It also sets the methodology for assessing the effective noise level to determine unreasonable noise under the Regulations.

The current version at the time of writing is 1826.5, effective 01 September 2025.

EPA Publication 1997 (EPA Victoria, 2021) provides the following definition for a Utility: 'Utility installation' as defined in the Victoria Planning Provisions and includes infrastructure used for telecommunications; to transmit or distribute gas or oil; to transmit, distribute or store power, including battery storage; to collect, treat, transmit, store, or distribute water; or to collect, treat, or dispose of storm or flood water, sewage, or sullage. As such, the Project is considered a Utility.

The Noise Protocol (EPA Victoria, September 2025) has a dedicated section (Section 2.6) detailing the process for assigning noise limits to Utilities in rural areas.

The Noise Protocol noise limits apply to the cumulative noise from all industry premises. Accordingly, the Project and the existing GESF (and the GETS which is part of the GESF) must be assessed cumulatively. While ERM undertook an indicative noise assessment of the GESF and GETS using indicative equipment selections and noise modelling, the most robust approach would be to undertake noise monitoring at the NSAs to quantify the actual

contributions from the operating GESF and GETS. In the absence of monitoring data, the approach outlined in EPA Publication 1997 (discussed in the following section) has been used to derive Project Noise Limits that assess the Project in isolation while accounting for cumulative noise impacts.

4.4 EPA PUBLICATION 1997

EPA Victoria *Publication 1997: Technical guidance - Measuring and analysing industry noise and music noise* (EPA Victoria, 2021a) (Publication 1997) provides guidance for assessing industry noise from multiple premises. It states the following:

Where two or more premises emit or are likely to emit noise which contributes to the effective noise level, each industry must take all reasonable steps to ensure that the individual contributions, when combined, do not exceed the noise limit for the noise sensitive area for each of the day, evening or night period. In other words, the noise limit must be 'shared' between all premises contributing to the noise within the noise sensitive area. To achieve this, the noise emissions of each individual industry should be controlled to meet noise levels lower than the noise limits.

For proposed new industry in rural areas, it states the following:

In rural areas, new industry plant or operations should be designed so that their emissions are less than the noise limits. Circumstances for which the equal sharing principle applies for new industry developments include:

- *where there is existing industry impacting on noise sensitive areas*
- *sites where there are multiple small commercial, industrial or trade premises.*

The contribution of the proposed development should then be abated to meet, for each period of the day, a level set below the relevant noise limit by $10 \times \log_{10}(N)$ decibels, where N is the total number of existing and likely contributing industrial plant installations

The existing and likely contributing industrial plant installations are:

1. The Project; and
2. The GESF and GETS (Note: The GETS and GESF are considered to be a single industrial plant installation)

The total number of industries, N is 2. Accordingly, $10 \times \log_{10}(2) = 3$ dB will be subtracted from the Noise Protocol noise limits to assess the Project in isolation.

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5. OPERATIONAL NOISE ASSESSMENT

5.1 PROJECT NOISE LIMITS

The Project is defined as a Utility as per EPA Victoria *Publication 1997* (EPA Victoria, 2021a) (Publication 1997). The Noise Protocol has a dedicated section (Section 2.6) detailing the process for assigning noise limits to Utilities in rural areas.

Clauses 19 and 20 of the Noise Protocol outline the process for determining distance-adjusted levels. The distance-adjusted levels are derived by determining the applicable zone levels based on the Generating Zone and Receiving Zones and adjusted using the distance between the zone where the noise generator is located and the location of the noise receiver.

The Project (Generating Zone) is located in a Farming Zone (FZ). The NSAs (Receiving Zones) are identified in the FZ, Township Zone (TZ), Low Density Residential Zone (LDRZ), Public Park and Recreation Zone (PPRZ) and Transport Zone 3 (TRZ3). The distance-adjusted levels, as per the Noise Protocol, at a representative NSA closest to the Project in each relevant Receiving Zone are summarised in Table 5-1.

Additionally, in accordance with Publication 1997 as discussed in Section 4.4, 3 dB is subtracted from the distance-adjusted levels to establish Project Noise Limits as summarised in Table 5-1.

The Project Noise Limits at all NSAs are provided in Appendix A.

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TABLE 5-1 DISTANCE-ADJUSTED LEVELS & PROJECT NOISE LIMITS

Receiving Zone	Representative NSA ID ¹	Distance to Generating Zone ² , in m	Distance Adjustment, in dB	Zone Level, in dB(A)			Distance-adjusted Level ⁴ , in dB(A)			Project Noise Limits ⁵ , in dB(A)		
				Day	Even	Night	Day	Even	Night	Day	Even	Night
Farming (FZ)	NAD78	-	0 ³	46	41	36	45 ³	39 ³	34 ³	42	36	31
Township (TZ)	NAD20	49	0	46	41	36	46	41	36	43	38	33
Low Density Residential (LDRZ)	NAD36	56	0	45	40	35	45	40	35	42	37	32
Public Park and Recreation (PPRZ)	NAD74	56	0	45	40	35	45	40	35	42	37	32
Transport (TRZ3)	NAD89	3	0	48	43	38	48	43	38	45	40	35

Note:

¹ Closest NSA to BESS Area

² The Generating Zone (Project Site) is Farming Zone

³ In accordance with Clause 31 of the Noise Protocol, as the Project is located in a Farming Zone (FZ) and the distance adjustment is 0 dB

⁴ Also referred to as Project noise limit

⁵ Project noise limits are derived based on the equal sharing principle, with the assumption that the number of industry premises is 2, in accordance with Publication 1997

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5.2 MODELLING METHODOLOGY

Operational noise modelling has been undertaken using the environmental noise modelling software SoundPLAN v9.1, which has implemented the algorithms presented in ISO 9613 *Acoustics – Attenuation of sound during propagation outdoors* (ISO, 2024).

The noise modelling takes into consideration the sound power levels of the proposed equipment, and applies adjustments for attenuation from geometric spreading, acoustic shielding from intervening ground topography, ground effects, meteorological effects, and atmospheric absorption.

The ground absorption and meteorological parameters used and deemed to be reasonable assumptions for this assessment are summarised in Table 5-2.

TABLE 5-2 MODELLED GROUND AND METEOROLOGICAL CONDITIONS

Ground Factor ¹	Relative Humidity	Temperature	Receptor height
0.5	70%	10°C	1.5m

Note:

¹ Ground Factor is a measure of the acoustic absorptivity of the ground. 0 is used for hard and reflective surfaces and 1 is used for soft or porous surfaces.

5.3 PROJECT NOISE SOURCES

The expected significant noise-generating equipment for the Project, including preliminary noise emissions specifications, included in the noise modelling were provided by the Proponent and are listed in Table 5-3 and displayed in Figure 5-1.

The final selection of BESS equipment will be confirmed during detailed design.

TABLE 5-3 PROJECT'S EQUIPMENT SOUND POWER LEVELS

Equipment Item (Refer to Figure 5-1)	Quantity	Sound Power Level per Plant Item, dB LAeq	Notes
BESS Battery Container (Pink boxes)	256	79 (Day and Evening) 76 (Night)	- Equipment Make and Model: CATL EnerC+ 306 (C02306P05L01) With Sound Cover - Sound Power Level of 79.4 dB(A) - With Sound Cover at 79.5% Fan Duty (Day and Evening) - Sound Power Level of 75.9 dB(A) - With Sound Cover at 70% Fan Duty (Night) - Source modelled at a height of 2.9 m as a point source
PCS / Inverter (Red boxes)	64	85	- Equipment Make and Model: SMA SC 4600 UP with Silencer Kit - Sound Power Level of 83.2 dB(A) - Refer to Apparent Power 100% for Power Grid-feed 4600 kVA - A measurement uncertainty of 2 dB has been added - Source modelled at a height of 2.3 m as a point source

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GOORAMBAT-CHESNEY ROAD

Legend

- BESS Area
- BESS Container
- PCS/Inverter

Source:
Esri Imagery 2025

Coordinate System:
GDA 1994 MGA Zone 55

Date: 18/06/2026

Created By: CS

Drawing Size: A3

0204060m



F5-1 Modelled Noise Sources

Goorambat BESS
Noise Impact Assessment
Client: Engie VIC



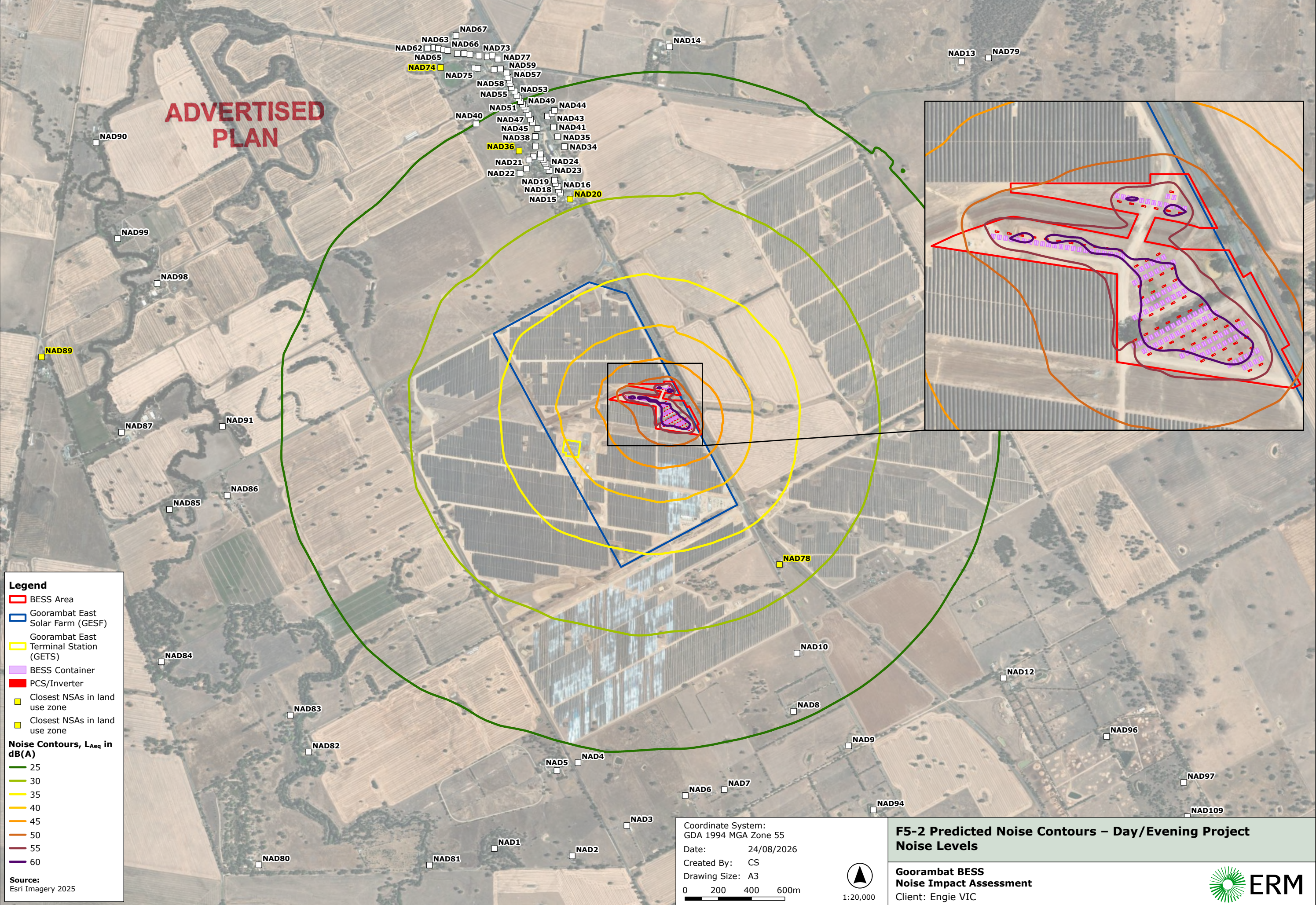
5.4 RESULTS

The assessment of the Project's noise modelling results is summarised in Table 5-4.

Predicted Noise Contour charts for daytime and night-time Project Noise Levels are provided in Figure 5-2 and Figure 5-3 respectively.

The results indicate that predicted noise levels at the NSAs comply with the Project Noise Criteria (established in Section 5.1) during all periods (day, evening and night).

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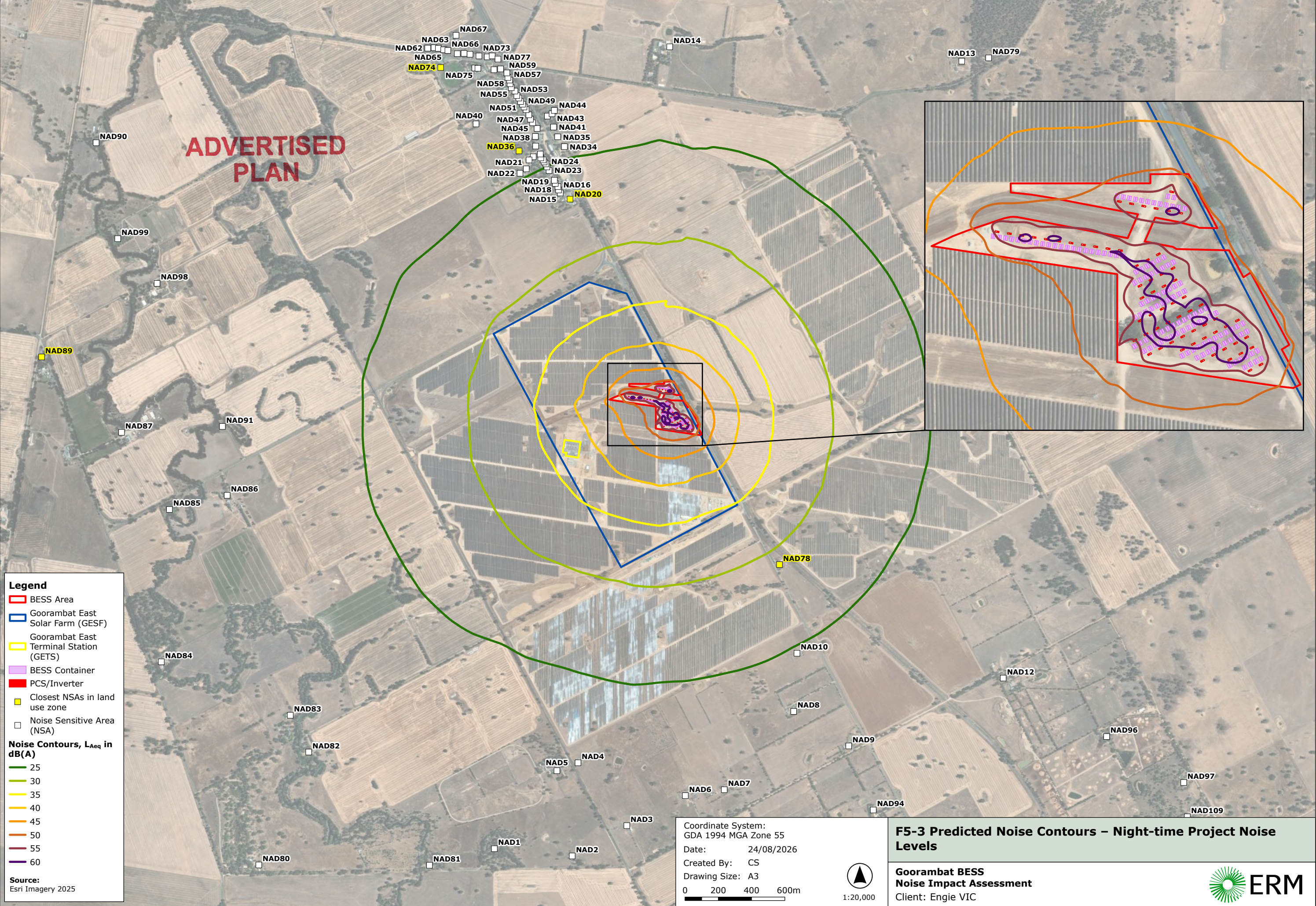


TABLE 5-4 ASSESSMENT OF PROJECT'S NOISE MODELLING RESULTS

Receiving Zone	Representative NSA ID ¹	Assessment Period	Project Noise Limits, in dB(A) ²	Project's Predicted Noise Level, L _{Aeq} in dB(A) ²
Farming (FZ)	NAD78	Day	42	32
		Evening	36	32
		Night	31	29
Township (TZ)	NAD20	Day	43	30
		Evening	38	30
		Night	33	27
Low Density Residential (LDRZ)	NAD36	Day	42	27
		Evening	37	27
		Night	32	24
Public Park and Recreation (PPRZ)	NAD74	Day	42	23
		Evening	37	23
		Night	32	20
Transport (TRZ3)	NAD89	Day	45	18
		Evening	40	18
		Night	35	16

Notes:

¹ Closest NSA in Receiving Zone to Project.² Includes a 2 dB tonal adjustment

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6. RECOMMENDATIONS

6.1 PROJECT-SPECIFIC NOISE MITIGATION MEASURES

The noise assessment has adopted the following indicative noise mitigation measures as the basis for preliminary design and noise modelling, as presented in Table 5-3:

- BESS battery containers fitted with a 'sound cover' or equivalent noise attenuation; and
- PCS/inverter units fitted with silencer kits or equivalent noise attenuation;

These measures are indicative and are not intended to prescribe specific equipment or mitigation solutions. During detailed design, the final equipment and mitigation measures will be selected to achieve sound power levels no greater than those adopted in the noise modelling and presented in Table 5-1.

Opportunities for other mitigation strategies through technology selection, localised equipment noise control among other options with equivalent or improved noise impact mitigation performance will be considered in the detailed design phase.

6.2 NOISE MONITORING AND FURTHER ASSESSMENT

The Noise Protocol noise limits apply to cumulative noise from all industry premises. Accordingly, the Project and the GESF and GETS must be assessed cumulatively. As the actual noise contributions of the operating GESF and GETS at the NSAs are currently uncertain, noise monitoring at relevant NSAs is recommended to quantify their contribution to cumulative noise levels. The noise monitoring results can then be used to inform a cumulative noise assessment during detailed design, once final equipment selections have been made. A tonality assessment should also be conducted based on the noise monitoring results.

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7. CONCLUSION

The Noise Impact Assessment for the proposed Project evaluates potential operational noise impacts at nearby NSAs in accordance with the *Environment Protection Regulations 2021* and EPA Publication 1826.5 (Noise Protocol).

The assessment applies the equal sharing principle of Publication 1997 to the Noise Protocol noise limits to consider potential cumulative noise impacts from the co-located GESF and GETS, while assessing the Project in isolation. Project Noise Limits were derived for each NSA based on the methodology provided in Publication 1826.5 and Publication 1997 utilising relevant land use zoning information and separation distances and noise levels predicted through noise modelling were compared against these limits.

The modelling results for the BESS indicate that Project noise levels are compliant with the Project Noise Limits for all assessment periods (day, evening and night) at all NSAs. Opportunities for alternative combinations of mitigation strategies that result in equivalent or improved noise impact mitigation performance will be considered in the detailed design phase.

The cornerstone of the Act is GED, of which Part 3.2 Clause 25 of the Act states the following:

A person who is engaging in an activity that may give rise to risks of harm to human health or the environment from pollution or waste must minimise those risks, so far as reasonably practicable.

This assessment demonstrates the GED is addressed through indicative project-specific mitigation measures which are incorporated into the modelled noise sources' assumptions. They include the installation of the 'sound cover' on the proposed battery containers, and the installation of silencer kits on the proposed PCS/Inverter. No further project-specific operational mitigation measures are required.

Opportunities for other mitigation strategies through technology selection, localised equipment noise control among other options with equivalent or improved noise impact mitigation performance may be considered in the detailed design phase. The recommended indicative noise mitigation measures are to be confirmed during the detailed design stage while considering final BESS equipment selection.

Should there be any changes in the design of the Project that may potentially increase noise levels at the NSAs, a reassessment is recommended prior to commencement of construction. This may include changes to the Project design with respect to equipment quantity, BESS equipment selections and the incorporated noise mitigation measures at the Project.

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8. REFERENCES

- EPA Victoria. (2021a). *Publication 1997: Technical guidance - Measuring and analysing industry noise and music noise.*
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APPENDIX A NOISE SENSITIVE AREAS AND PROJECT NOISE LIMITS

NSA ID	Coordinates (GDA96, Zone 55S)		Land Use Zone (Receivin g Zone)	Distance to Generatin g Zone (FZ), in m	Zone Levels, in dB(A)			Distance-adjusted Levels, in dB(A)			Publication 1997 Noise Limits (Project Noise Limits) in dB(A)		
	X (m)	Y (m)			Day	Evenin g	Night	Day	Evenin g	Night	Day	Evenin g	Night
NAD1	403146	5965669	FZ	0	46	41	36	45	39	34	42	36	31
NAD2	403614	5965625	FZ	0	46	41	36	45	39	34	42	36	31
NAD3	403943	5965808	FZ	0	46	41	36	45	39	34	42	36	31
NAD4	403649	5966186	FZ	0	46	41	36	45	39	34	42	36	31
NAD5	403522	5966138	FZ	0	46	41	36	45	39	34	42	36	31
NAD6	404295	5965988	FZ	0	46	41	36	45	39	34	42	36	31
NAD7	404529	5966024	FZ	0	46	41	36	45	39	34	42	36	31
NAD8	404946	5966494	FZ	0	46	41	36	45	39	34	42	36	31
NAD9	405277	5966287	FZ	0	46	41	36	45	39	34	42	36	31
NAD10	404966	5966844	FZ	0	46	41	36	45	39	34	42	36	31
NAD12	406206	5966694	FZ	0	46	41	36	45	39	34	42	36	31
NAD13	405957	5970403	FZ	0	46	41	36	45	39	34	42	36	31



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ADVERTISED PLAN

NSA ID	Coordinates (GDA96, Zone 55S)		Land Use Zone (Receivin g Zone)	Distance to Generatin g Zone (FZ), in m	Zone Levels, in dB(A)			Distance-adjusted Levels, in dB(A)			Publication 1997 Noise Limits (Project Noise Limits) in dB(A)		
	X (m)	Y (m)			Day	Evenin g	Night	Day	Evenin g	Night	Day	Evenin g	Night
NAD14	404201	5970489	FZ	0	46	41	36	45	39	34	42	36	31
NAD15	403543	5969610	TZ	79	46	41	36	46	41	36	43	38	33
NAD16	403532	5969629	TZ	78	46	41	36	46	41	36	43	38	33
NAD17	403529	5969649	TZ	85	46	41	36	46	41	36	43	38	33
NAD18	403513	5969668	TZ	79	46	41	36	46	41	36	43	38	33
NAD19	403508	5969687	TZ	84	46	41	36	46	41	36	43	38	33
NAD20	403601	5969573	TZ	49	46	41	36	46	41	36	43	38	33
NAD21	403338	5969756	FZ	0	46	41	36	45	39	34	42	36	31
NAD22	403301	5969729	FZ	0	46	41	36	45	39	34	42	36	31
NAD23	403475	5969745	TZ	83	46	41	36	46	41	36	43	38	33
NAD24	403462	5969767	TZ	82	46	41	36	46	41	36	43	38	33
NAD25	403456	5969786	TZ	85	46	41	36	46	41	36	43	38	33
NAD26	403446	5969797	TZ	81	46	41	36	46	41	36	43	38	33
NAD27	403440	5969809	TZ	82	46	41	36	46	41	36	43	38	33
NAD28	403426	5969822	TZ	75	46	41	36	46	41	36	43	38	33



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ADVERTISED PLAN

NSA ID	Coordinates (GDA96, Zone 55S)		Land Use Zone (Receivin g Zone)	Distance to Generatin g Zone (FZ), in m	Zone Levels, in dB(A)			Distance-adjusted Levels, in dB(A)			Publication 1997 Noise Limits (Project Noise Limits) in dB(A)		
	X (m)	Y (m)			Day	Evenin g	Night	Day	Evenin g	Night	Day	Evenin g	Night
NAD29	403423	5969844	TZ	82	46	41	36	46	41	36	43	38	33
NAD30	403380	5969828	TZ	38	46	41	36	46	41	36	43	38	33
NAD31	403355	5969809	TZ	7	46	41	36	46	41	36	43	38	33
NAD34	403567	5969889	TZ	18	46	41	36	46	41	36	43	38	33
NAD35	403527	5969948	TZ	26	46	41	36	46	41	36	43	38	33
NAD36	403295	5969863	LDRZ	56	45	40	35	45	40	35	42	37	32
NAD37	403395	5969892	TZ	85	46	41	36	46	41	36	43	38	33
NAD38	403393	5969950	TZ	95	46	41	36	46	41	36	43	38	33
NAD39	403403	5969998	TZ	62	46	41	36	46	41	36	43	38	33
NAD40	403036	5970026	LDRZ	85	45	40	35	45	40	35	42	37	32
NAD41	403502	5970007	FZ	0	46	41	36	45	39	34	42	36	31
NAD42	403465	5970072	FZ	0	46	41	36	45	39	34	42	36	31
NAD43	403493	5970087	FZ	0	46	41	36	45	39	34	42	36	31
NAD44	403507	5970107	FZ	0	46	41	36	45	39	34	42	36	31
NAD45	403376	5970032	TZ	70	46	41	36	46	41	36	43	38	33



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ADVERTISED PLAN

NSA ID	Coordinates (GDA96, Zone 55S)		Land Use Zone (Receivin g Zone)	Distance to Generatin g Zone (FZ), in m	Zone Levels, in dB(A)			Distance-adjusted Levels, in dB(A)			Publication 1997 Noise Limits (Project Noise Limits) in dB(A)		
	X (m)	Y (m)			Day	Evenin g	Night	Day	Evenin g	Night	Day	Evenin g	Night
NAD46	403363	5970054	TZ	71	46	41	36	46	41	36	43	38	33
NAD47	403354	5970080	TZ	68	46	41	36	46	41	36	43	38	33
NAD48	403337	5970111	TZ	68	46	41	36	46	41	36	43	38	33
NAD49	403325	5970127	TZ	71	46	41	36	46	41	36	43	38	33
NAD50	403316	5970144	TZ	71	46	41	36	46	41	36	43	38	33
NAD51	403304	5970160	TZ	74	46	41	36	46	41	36	43	38	33
NAD52	403294	5970181	TZ	73	46	41	36	46	41	36	43	38	33
NAD53	403281	5970196	TZ	77	46	41	36	46	41	36	43	38	33
NAD54	403270	5970223	TZ	75	46	41	36	46	41	36	43	38	33
NAD55	403248	5970243	TZ	84	46	41	36	46	41	36	43	38	33
NAD56	403241	5970267	TZ	79	46	41	36	46	41	36	43	38	33
NAD57	403238	5970289	TZ	72	46	41	36	46	41	36	43	38	33
NAD58	403228	5970305	TZ	73	46	41	36	46	41	36	43	38	33
NAD59	403222	5970332	TZ	62	46	41	36	46	41	36	43	38	33
NAD60	403184	5970356	TZ	58	46	41	36	46	41	36	43	38	33



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ADVERTISED PLAN

NSA ID	Coordinates (GDA96, Zone 55S)		Land Use Zone (Receivin g Zone)	Distance to Generatin g Zone (FZ), in m	Zone Levels, in dB(A)			Distance-adjusted Levels, in dB(A)			Publication 1997 Noise Limits (Project Noise Limits) in dB(A)		
	X (m)	Y (m)			Day	Evenin g	Night	Day	Evenin g	Night	Day	Evenin g	Night
NAD61	403144	5970351	TZ	93	46	41	36	46	41	36	43	38	33
NAD62	402746	5970481	TZ	15	46	41	36	46	41	36	43	38	33
NAD63	402784	5970484	TZ	31	46	41	36	46	41	36	43	38	33
NAD64	402809	5970480	TZ	46	46	41	36	46	41	36	43	38	33
NAD65	402842	5970471	TZ	69	46	41	36	46	41	36	43	38	33
NAD66	402867	5970467	TZ	84	46	41	36	46	41	36	43	38	33
NAD67	402916	5970558	TZ	28	46	41	36	46	41	36	43	38	33
NAD68	402924	5970448	TZ	128	46	41	36	45	40	35	42	37	32
NAD69	402964	5970449	TZ	146	46	41	36	45	40	35	42	37	32
NAD70	403000	5970444	TZ	168	46	41	36	45	40	35	42	37	32
NAD71	403054	5970434	TZ	163	46	41	36	45	40	35	42	37	32
NAD72	403104	5970428	TZ	112	46	41	36	45	40	35	42	37	32
NAD73	403133	5970434	TZ	84	46	41	36	46	41	36	43	38	33
NAD74	402824	5970364	PPRZ	56	45	40	35	45	40	35	42	37	32
NAD75	403029	5970362	LDRZ	194	45	40	35	44	39	34	41	36	31



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ADVERTISED PLAN

NSA ID	Coordinates (GDA96, Zone 55S)		Land Use Zone (Receivin g Zone)	Distance to Generatin g Zone (FZ), in m	Zone Levels, in dB(A)			Distance-adjusted Levels, in dB(A)			Publication 1997 Noise Limits (Project Noise Limits) in dB(A)		
	X (m)	Y (m)			Day	Evenin g	Night	Day	Evenin g	Night	Day	Evenin g	Night
NAD76	403048	5970360	LDRZ	177	45	40	35	44	39	34	41	36	31
NAD77	403168	5970415	TZ	48	46	41	36	46	41	36	43	38	33
NAD78	404861	5967377	FZ	0	46	41	36	45	39	34	42	36	31
NAD79	406118	5970423	FZ	0	46	41	36	45	39	34	42	36	31
NAD80	401730	5965571	FZ	0	46	41	36	45	39	34	42	36	31
NAD81	402756	5965569	FZ	0	46	41	36	45	39	34	42	36	31
NAD82	402030	5966250	FZ	0	46	41	36	45	39	34	42	36	31
NAD83	401919	5966471	FZ	0	46	41	36	45	39	34	42	36	31
NAD84	401144	5966792	FZ	0	46	41	36	45	39	34	42	36	31
NAD85	401193	5967708	FZ	0	46	41	36	45	39	34	42	36	31
NAD86	401540	5967793	FZ	0	46	41	36	45	39	34	42	36	31
NAD87	400905	5968172	FZ	0	46	41	36	45	39	34	42	36	31
NAD88	400154	5967549	FZ	0	46	41	36	45	39	34	42	36	31
NAD89	400424	5968625	TRZ3	3	48	43	38	48	43	38	45	40	35
NAD90	400752	5969912	FZ	0	46	41	36	45	39	34	42	36	31



ADVERTISED PLAN

NSA ID	Coordinates (GDA96, Zone 55S)		Land Use Zone (Receivin g Zone)	Distance to Generatin g Zone (FZ), in m	Zone Levels, in dB(A)			Distance-adjusted Levels, in dB(A)			Publication 1997 Noise Limits (Project Noise Limits) in dB(A)		
	X (m)	Y (m)			Day	Evenin g	Night	Day	Evenin g	Night	Day	Evenin g	Night
NAD91	401511	5968207	FZ	0	46	41	36	45	39	34	42	36	31
NAD92	402376	5964730	FZ	0	46	41	36	45	39	34	42	36	31
NAD93	402466	5965111	FZ	0	46	41	36	45	39	34	42	36	31
NAD94	405425	5965902	FZ	0	46	41	36	45	39	34	42	36	31
NAD95	406266	5965696	FZ	0	46	41	36	45	39	34	42	36	31
NAD96	406828	5966343	FZ	0	46	41	36	45	39	34	42	36	31
NAD97	407291	5966067	FZ	0	46	41	36	45	39	34	42	36	31
NAD98	401118	5969067	FZ	0	46	41	36	45	39	34	42	36	31
NAD99	400882	5969336	FZ	0	46	41	36	45	39	34	42	36	31
NAD10 0	404744	5964534	FZ	0	46	41	36	45	39	34	42	36	31
NAD10 1	405349	5964554	FZ	0	46	41	36	45	39	34	42	36	31
NAD10 2	404899	5964407	FZ	0	46	41	36	45	39	34	42	36	31
NAD10 3	405008	5964282	FZ	0	46	41	36	45	39	34	42	36	31



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ADVERTISED PLAN

NSA ID	Coordinates (GDA96, Zone 55S)		Land Use Zone (Receivin g Zone)	Distance to Generatin g Zone (FZ), in m	Zone Levels, in dB(A)			Distance-adjusted Levels, in dB(A)			Publication 1997 Noise Limits (Project Noise Limits) in dB(A)		
	X (m)	Y (m)			Day	Evenin g	Night	Day	Evenin g	Night	Day	Evenin g	Night
NAD10 4	404063	5963823	FZ	0	46	41	36	45	39	34	42	36	31
NAD10 5	403217	5963881	FZ	0	46	41	36	45	39	34	42	36	31
NAD10 6	406006	5964233	FZ	0	46	41	36	45	39	34	42	36	31
NAD10 7	406275	5964781	FZ	0	46	41	36	45	39	34	42	36	31
NAD10 8	407291	5965684	FZ	0	46	41	36	45	39	34	42	36	31
NAD10 9	407313	5965861	FZ	0	46	41	36	45	39	34	42	36	31
NAD11 0	408478	5966334	FZ	0	46	41	36	45	39	34	42	36	31
NAD11 1	408336	5968842	FZ	0	46	41	36	45	39	34	42	36	31
NAD11 2	409457	5969155	FZ	0	46	41	36	45	39	34	42	36	31
NAD11 3	409165	5968865	FZ	0	46	41	36	45	39	34	42	36	31
NAD11 4	406800	5971363	FZ	0	46	41	36	45	39	34	42	36	31



NSA ID	Coordinates (GDA96, Zone 55S)		Land Use Zone (Receivin g Zone)	Distance to Generatin g Zone (FZ), in m	Zone Levels, in dB(A)			Distance-adjusted Levels, in dB(A)			Publication 1997 Noise Limits (Project Noise Limits) in dB(A)		
	X (m)	Y (m)			Day	Evenin g	Night	Day	Evenin g	Night	Day	Evenin g	Night
NAD11 5	403772	5971232	FZ	0	46	41	36	45	39	34	42	36	31
NAD11 6	403646	5971286	FZ	0	46	41	36	45	39	34	42	36	31

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APPENDIX B PROJECT NOISE LEVELS

NSA ID	Land Use Zone (Receiving Zone)	Project Noise Level, L _{Aeq} in dB(A)		
		Day	Evening	Night
NAD1	FZ	21	21	19
NAD2	FZ	22	22	19
NAD3	FZ	22	22	20
NAD4	FZ	24	24	22
NAD5	FZ	24	24	21
NAD6	FZ	23	23	21
NAD7	FZ	23	23	21
NAD8	FZ	25	25	23
NAD9	FZ	24	24	21
NAD10	FZ	27	27	25
NAD12	FZ	22	22	20
NAD13	FZ	21	21	19



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NSA ID	Land Use Zone (Receiving Zone)	Project Noise Level, L _{Aeq} in dB(A)		
		Day	Evening	Night
NAD14	FZ	24	24	22
NAD15	TZ	29	29	26
NAD16	TZ	29	29	26
NAD17	TZ	29	29	26
NAD18	TZ	29	29	26
NAD19	TZ	28	28	26
NAD20	TZ	30	30	27
NAD21	FZ	28	28	25
NAD22	FZ	28	28	25
NAD23	TZ	28	28	25
NAD24	TZ	28	28	25
NAD25	TZ	28	28	25
NAD26	TZ	28	28	25
NAD27	TZ	27	27	25



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NSA ID	Land Use Zone (Receiving Zone)	Project Noise Level, L _{Aeq} in dB(A)		
		Day	Evening	Night
NAD28	TZ	27	27	25
NAD29	TZ	27	27	24
NAD30	TZ	27	27	24
NAD31	TZ	27	27	24
NAD34	TZ	27	27	25
NAD35	TZ	27	27	24
NAD36	LDRZ	27	27	24
NAD37	TZ	27	27	24
NAD38	TZ	26	26	24
NAD39	TZ	26	26	24
NAD40	LDRZ	25	25	22
NAD41	FZ	26	26	24
NAD42	FZ	26	26	23
NAD43	FZ	26	26	23



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NSA ID	Land Use Zone (Receiving Zone)	Project Noise Level, L _{Aeq} in dB(A)		
		Day	Evening	Night
NAD44	FZ	26	26	23
NAD45	TZ	26	26	23
NAD46	TZ	26	26	23
NAD47	TZ	26	26	23
NAD48	TZ	25	25	23
NAD49	TZ	25	25	23
NAD50	TZ	25	25	23
NAD51	TZ	25	25	22
NAD52	TZ	25	25	22
NAD53	TZ	25	25	22
NAD54	TZ	25	25	22
NAD55	TZ	25	25	22
NAD56	TZ	24	24	22
NAD57	TZ	24	24	22



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NSA ID	Land Use Zone (Receiving Zone)	Project Noise Level, L _{Aeq} in dB(A)		
		Day	Evening	Night
NAD58	TZ	24	24	21
NAD59	TZ	24	24	21
NAD60	TZ	24	24	21
NAD61	TZ	24	24	21
NAD62	TZ	22	22	20
NAD63	TZ	22	22	20
NAD64	TZ	22	22	20
NAD65	TZ	22	22	20
NAD66	TZ	23	23	20
NAD67	TZ	22	22	20
NAD68	TZ	23	23	20
NAD69	TZ	23	23	20
NAD70	TZ	23	23	20
NAD71	TZ	23	23	20



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NSA ID	Land Use Zone (Receiving Zone)	Project Noise Level, L _{Aeq} in dB(A)		
		Day	Evening	Night
NAD72	TZ	23	23	21
NAD73	TZ	23	23	21
NAD74	PPRZ	23	23	20
NAD75	LDRZ	23	23	21
NAD76	LDRZ	23	23	21
NAD77	TZ	23	23	21
NAD78	FZ	32	32	29
NAD79	FZ	21	21	18
NAD80	FZ	18	18	16
NAD81	FZ	20	20	18
NAD82	FZ	21	21	19
NAD83	FZ	22	22	19
NAD84	FZ	20	20	17
NAD85	FZ	21	21	19



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NSA ID	Land Use Zone (Receiving Zone)	Project Noise Level, L _{Aeq} in dB(A)		
		Day	Evening	Night
NAD86	FZ	23	23	20
NAD87	FZ	20	20	18
NAD88	FZ	17	17	15
NAD89	TRZ3	18	18	16
NAD90	FZ	18	18	15
NAD91	FZ	23	23	20
NAD92	FZ	17	17	14
NAD93	FZ	18	18	16
NAD94	FZ	22	22	19
NAD95	FZ	19	19	16
NAD96	FZ	19	19	16
NAD97	FZ	17	17	15
NAD98	FZ	21	21	18
NAD99	FZ	19	19	17



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NSA ID	Land Use Zone (Receiving Zone)	Project Noise Level, L _{Aeq} in dB(A)		
		Day	Evening	Night
NAD100	FZ	17	17	15
NAD101	FZ	17	17	14
NAD102	FZ	17	17	14
NAD103	FZ	16	16	14
NAD104	FZ	15	15	13
NAD105	FZ	15	15	13
NAD106	FZ	15	15	13
NAD107	FZ	16	16	14
NAD108	FZ	16	16	14
NAD109	FZ	17	17	14
NAD110	FZ	14	14	12
NAD111	FZ	16	16	13
NAD112	FZ	2	2	2
NAD113	FZ	10	10	8



NSA ID	Land Use Zone (Receiving Zone)	Project Noise Level, L _{Aeq} in dB(A)		
		Day	Evening	Night
NAD114	FZ	16	16	14
NAD115	FZ	20	20	18
NAD116	FZ	20	20	18

Note:

Tonal adjustments were calculated in accordance with the objective tonal method given in *Annex C* of the Noise Protocol. Tonal adjustments in each receiving zone have been conservatively estimated to be the calculated tonal adjustment at the closest NSA in that zone to the Project. A 2 dB tonal adjustment has been added to all Project Noise Levels.

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