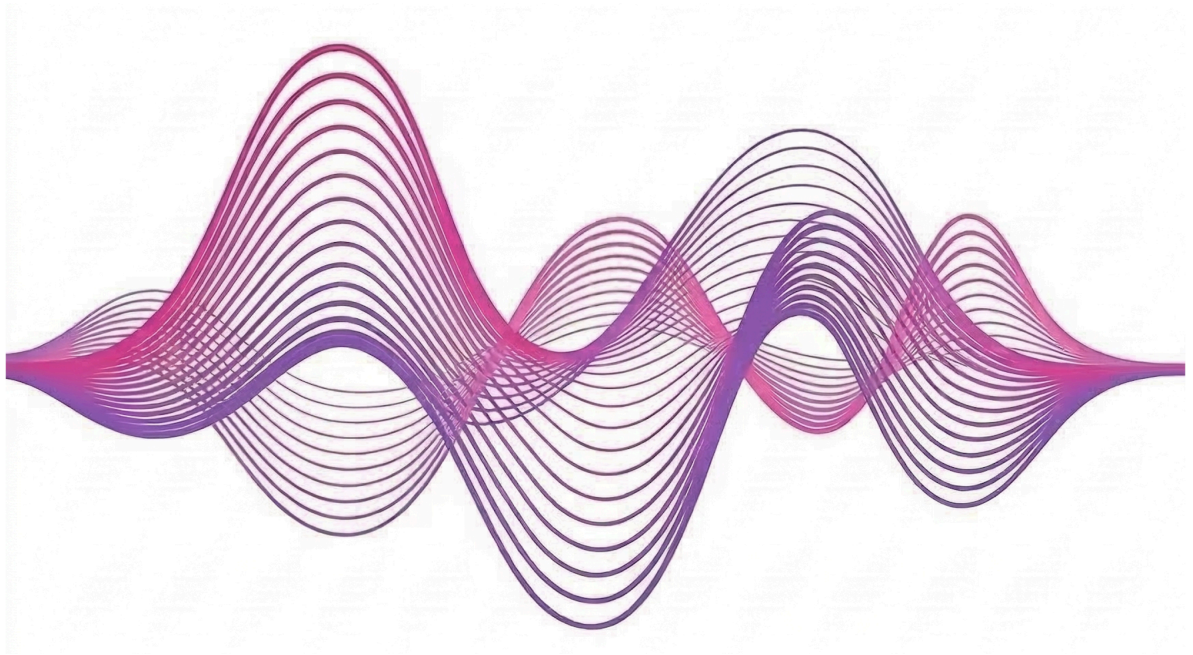


ACOUSTIC TECHNICAL NOTE: **ENVIRONMENTAL NOISE IMPACT** **ASSESSMENT**



Project: Proposed Installation of Cosy 12 Air Source Heat Pump

Site Address: 9 Equity Road East, Earl Shilton, Leicester, LE9 7FZ

Date: 13th of August 2026

Author: Anita Pullmanova

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1. INTRODUCTION AND EXECUTIVE SUMMARY

1.1. This formal Acoustic Technical Note has been prepared to accompany the planning application regarding the installation of a **Cosy 12 Air Source Heat Pump (ASHP)** at **9 Equity Road East**. This document serves to quantify, via computational modeling, the potential acoustic impact of the proposed mechanical plant on the residential amenity of the neighbouring properties, **5 Equity Road East**.

1.2. The primary objective of this assessment is to demonstrate that the proposed installation will not result in any "Significant Adverse Impact" as defined by the **Noise Policy Statement for England (NPSE)**. To ensure the absolute robustness of this application, the assessment methodology strictly adheres to the internationally recognized **ISO 9613-2:1996** standard for the attenuation of sound during propagation outdoors.

1.3. Acknowledging the necessity for a definitive prediction, this report employs a **Sensitivity Analysis** approach. By applying a **+2 dB tonality correction** to the Specific Sound Level (L_s). This is a standard correction for sound sources that may exhibit minor, tonal characteristics which is appropriate for modern Inverter-Driven Compressors found in this specific air source heat pump. This report demonstrates that even with the theoretical penalization, the proposed unit will not result in any Significant Adverse Impact.

1.4. The computational modeling confirms that the predicted external **Rating Noise Level (L_{Ar,Tr})** at the critical first-floor assessment window of the neighboring property is **39 dB(A)**.

1.5. These results demonstrate that the proposed installation achieves an external noise level that remains **6-16 dB below** the prevailing ambient daytime noise climate (45-55 dB) and **within** the prevailing ambient nighttime noise climate (35-40 dB) indicated by DEFRA strategic mapping. Furthermore, the internal noise level in the nearest bedroom is calculated at **29 dB(A)**, which is below the BS 8233:2014 target of 30 dB for sleeping conditions. Consequently, the proposal preserves residential amenity and complies with National Planning Policy.

2. LEGISLATIVE AND STANDARDS FRAMEWORK

This assessment has been prepared with strict reference to the following national standards and planning guidance documents to ensure the protection of residential amenity. Detailed definitions are provided in **Appendix A.4**.

2.1. National Planning Policy Framework (NPPF) (2024)

Paragraph 198 mandates that planning decisions must "mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development". This report demonstrates compliance by proving the unit operates substantially below the background noise floor.

2.2. British Standard BS 8233:2014

This standard establishes internal ambient noise level targets to safeguard rest and sleep. The relevant criterion for this application is **30 dB LAeq, 8hr** for sleeping conditions in bedrooms.

2.3. British Standard BS 4142:2014+A1:2019

This standard provides methods for rating and assessing industrial and commercial sound. It introduces the concept of the Rating Level (L_{Ar}, Tr), which is the specific sound level of the source corrected for acoustic features such as tonality, impulsivity, or intermittency.

3. SOURCE NOISE DATA SPECIFICATION

3.1. Unit Specification

The assessment is based on the **Cosy 12** Air Source Heat Pump.

- **Sound Power Level (LWA):** 61 dB(A).
- **Distance to Host Facade:** 250mm.

3.2. Spectral Data Limitations and the "Tonality Correction" Approach

It is noted that full octave band data (125Hz - 8kHz) was unavailable for this specific unit configuration at the time of assessment. To preclude any challenge regarding the spectral character of the noise source, this report adopts a "tonality correction" of 2dB, recommended within the **BS 4142 methodology**. This is the standard correction for sound sources that may exhibit minor, tonal characteristics, which modern heat pumps with Inverter-Driven Compressors produce.



4. COMPUTATIONAL MODELING METHODOLOGY

The noise map and propagation calculations were generated utilizing the **ISO 9613-2:1996** standard. To ensure the assessment remains robust and impervious to technical challenge, the following "worst-case" parameters were locked into the calculation method (detailed in **Appendix A.1**):

4.1. Facade Reflection (Coefficient 0.982)

A reflection coefficient of **0.982** was strictly applied to all vertical surfaces (brickwork/glazing). This parameter assumes that **98.2%** of sound energy is reflected back into the environment, with only a negligible ~2% absorption. This effectively models the building envelope as a near-perfect acoustic mirror, maximizing the calculated sound pressure levels at the receiver.

4.2. Ground Factor (G=0)

A global Ground Factor of **G=0 (Hard Ground)** was applied to the entire propagation path. This assumption effectively treats the intervening ground as concrete or paving, completely negating the attenuation that would undeniably be provided by soft garden turf (G=1). This ensures the predicted levels are highly conservative.

4.3. Directivity (Q=4):

Hemispherical radiation (Q=4) is assumed to account for source directivity resulting from installation in close proximity (250mm) to the reflective host facade as well as the ground.

5. PREDICTED RESULTS AND ANALYSIS

Predictions were calculated at the critical receiver locations at **5 Equity Road East**. The values below represent the **Rating Level (L_{Ar,Tr})** for all of the properties.

5.1. Comparative Results Table

Property Address	Assessment position	Ground floor	First floor
5 Equity Road East	Main Assessment point	32 dB(A)	39 dB(A)
	Assessment point 2	33 dB(A)	-
	Assessment point 3	27 dB(A)	35 dB(A)

5.2. Internal Noise Level Calculation

The critical receptor is the closest **First Floor Window at 5 Equity Road East**. When utilizing the +2dB tonal correction, which is already included in the noise modelling results, there is a result of **39 dB(A)**.

It is standard acoustic practice (accepted by the World Health Organization and BS 8233) to assume that a partially open window provides 10-15 dB of attenuation from external noise sources. A conservative attenuation factor of **10 dB** has been adopted.

$$\text{Internal Level} = \text{External Rating Level} - \text{Open Window Attenuation}$$

$$\text{Internal Level} = 39 \text{ dB(A)} - 10\text{dB}$$

$$\text{Internal Level} = 29 \text{ dB(A)}$$

Compliance: The calculated internal level of **29 dB(A)** is **1 dB lower** than the BS 8233 target of 30 dB.

ISO 9613-2 First-Floor Results



ISO 9613-2 Ground-Floor Results



ISO 9613-2 AC units



6. CONTEXTUAL ASSESSMENT AND ACOUSTIC MASKING

6.1. Ambient Noise Climate:

Strategic noise data from **DEFRA** identifies the ambient daytime noise baseline for this location falling within the **45-55 dB(A)** bands, and the ambient nighttime noise baseline for this location falling within the **35-40 dB(A)** bands.

6.2. Assessment of Impact (Acoustic Masking)

When the predicted plant noise is compared against the prevailing background, the lack of impact becomes evident:

- Prevailing Ambient Daytime Noise Climate: 45–55 dB(A).
- Plant Rating Level: 39 dB(A).
- Differential: **6-16 dB**.
- Prevailing Ambient Nighttime Noise Climate: 35–40 dB(A).
- Plant Rating Level: 39 dB(A).
- Differential: **Within**

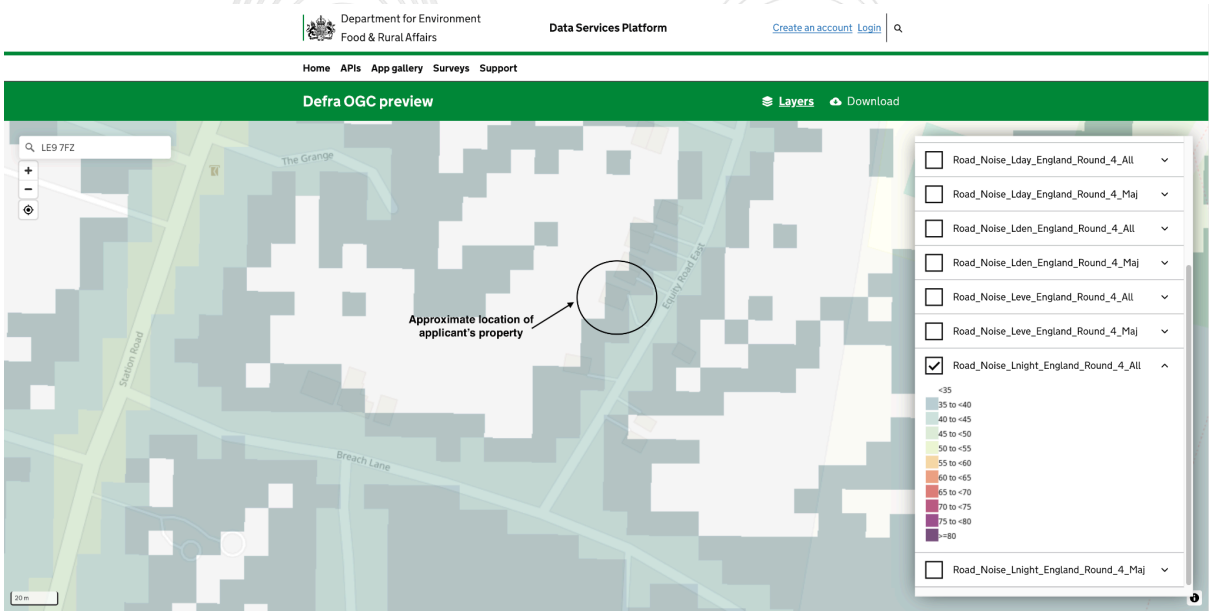
6.3. Discussion

The phenomenon of Acoustic Masking dictates that the broadband noise of the environment will mask the lower-level sound of the new source. When a source's rating level falls **below** the prevailing ambient noise floor, it is fundamentally rendered acoustically indistinguishable from the background. When the rating level is **within** the ambient floor, the principle of Acoustic Integration ensures the specific noise remains contained by the existing environmental noise climate. In both scenarios, the source is prevented from introducing a new, significant noise character or adverse impact on residential amenity.

Daytime Noise Modeling:



Nighttime Noise Modeling:



7. CONCLUSION

7.1. This comprehensive computational assessment demonstrates that the proposed installation of the **Cosy 12 at 9 Equity Road East** complies with all relevant national planning policies regarding noise.

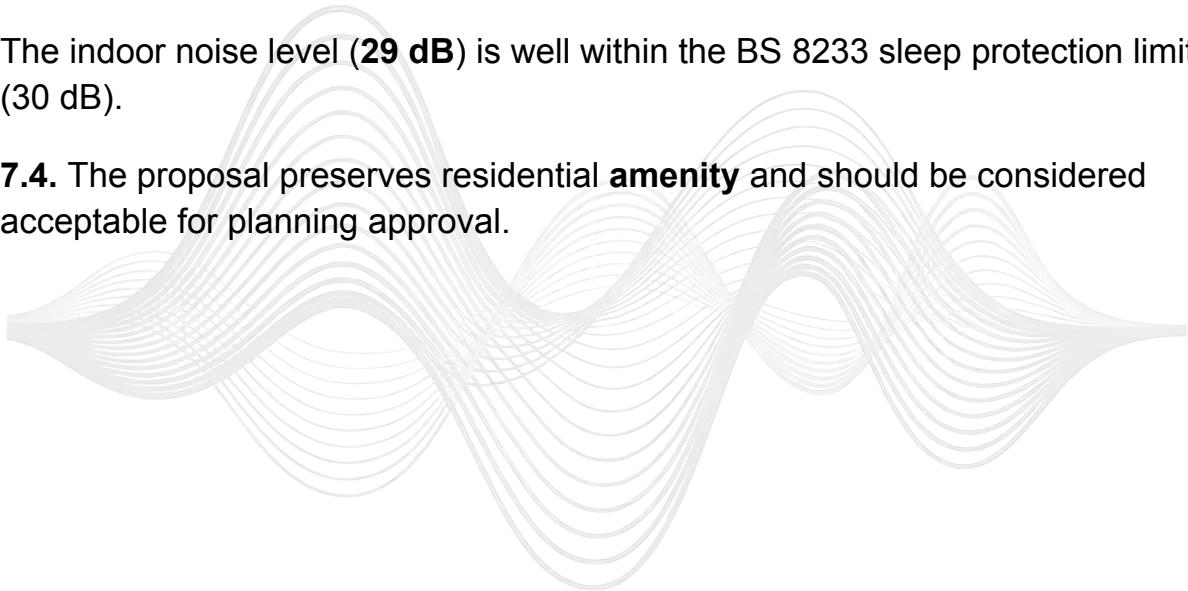
7.2. External Impact:

The worst-case Rating Level (**39 dB**) is lower than the prevailing ambient daytime noise levels (45-55 dB), and within the prevailing ambient nighttime noise levels (35-40 dB).

7.3. Internal Amenity:

The indoor noise level (**29 dB**) is well within the BS 8233 sleep protection limit (30 dB).

7.4. The proposal preserves residential **amenity** and should be considered acceptable for planning approval.



APPENDIX A: TECHNICAL REFERENCES AND MODELING DATA

A.1. SOURCE NOISE DATA SPECIFICATION

- Source: Cosy 12 Air Source Heat Pump
- Sound Power: 61 dB(A) (LWA)
- Raw Data Reference: See attached file *ISO 9613-2 Raw Data.pdf*.

A.2. LEGISLATIVE AND STANDARDS FRAMEWORK

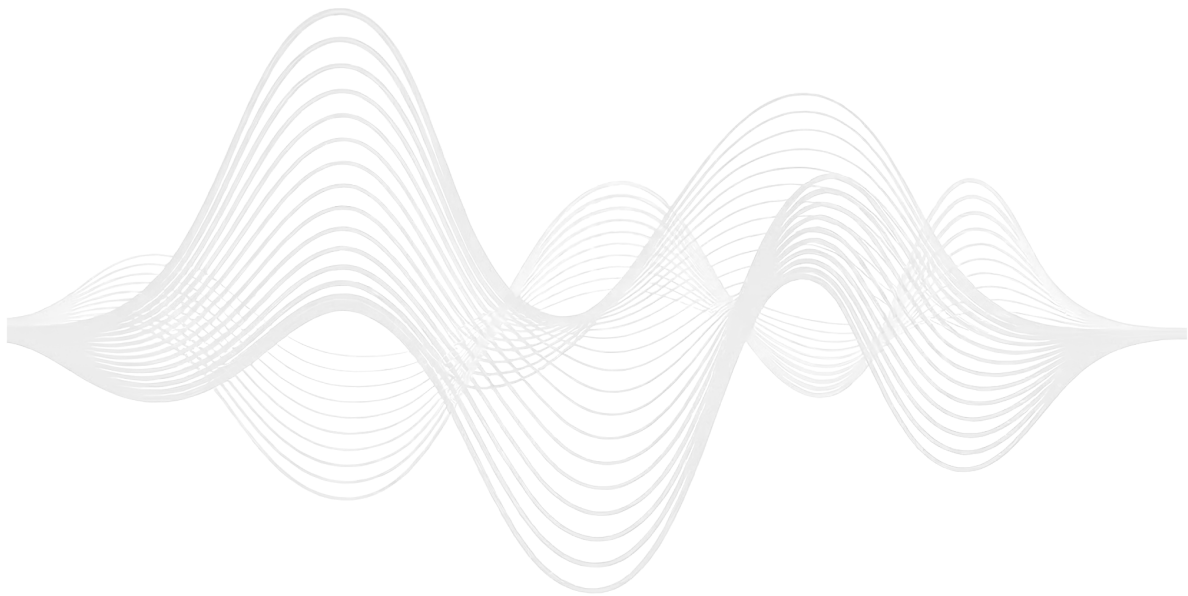
- **NPPF (2024)**: Paragraph 198 mandates that planning decisions must "mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development".
- **NPSE**: Defines NOAEL (No Observed Adverse Effect Level); results place this development within this acceptable range where no significant adverse impact occurs.
- **BS 8233:2014**: Recommends a criterion of 30dB LAeq,8hr for sleeping conditions in bedrooms.
- **BS 4142:2014**: Methodology for rating and assessing industrial and commercial sound.

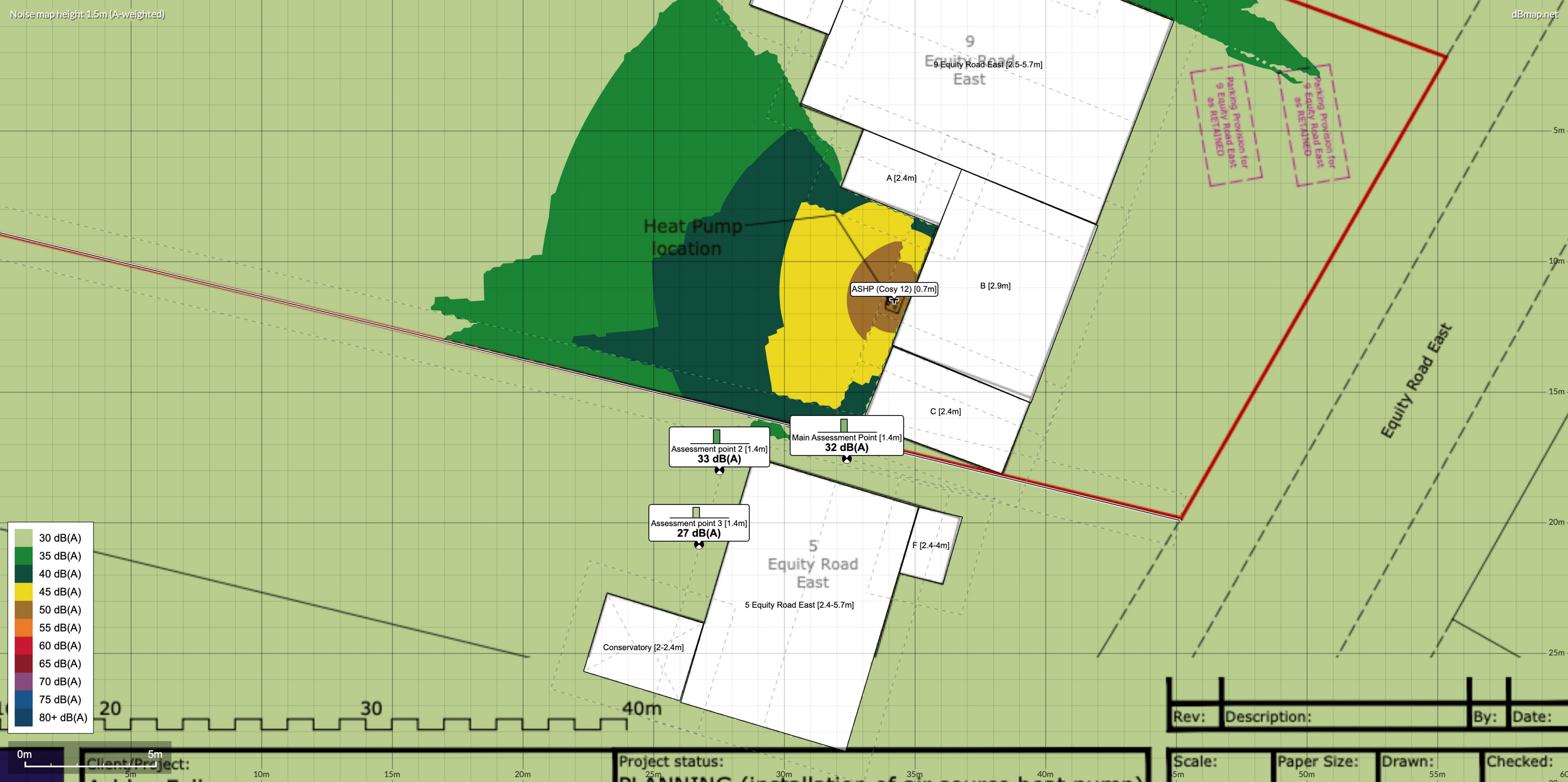
A.3. COMPUTATIONAL MODELING ASSUMPTIONS (ISO 9613-2)

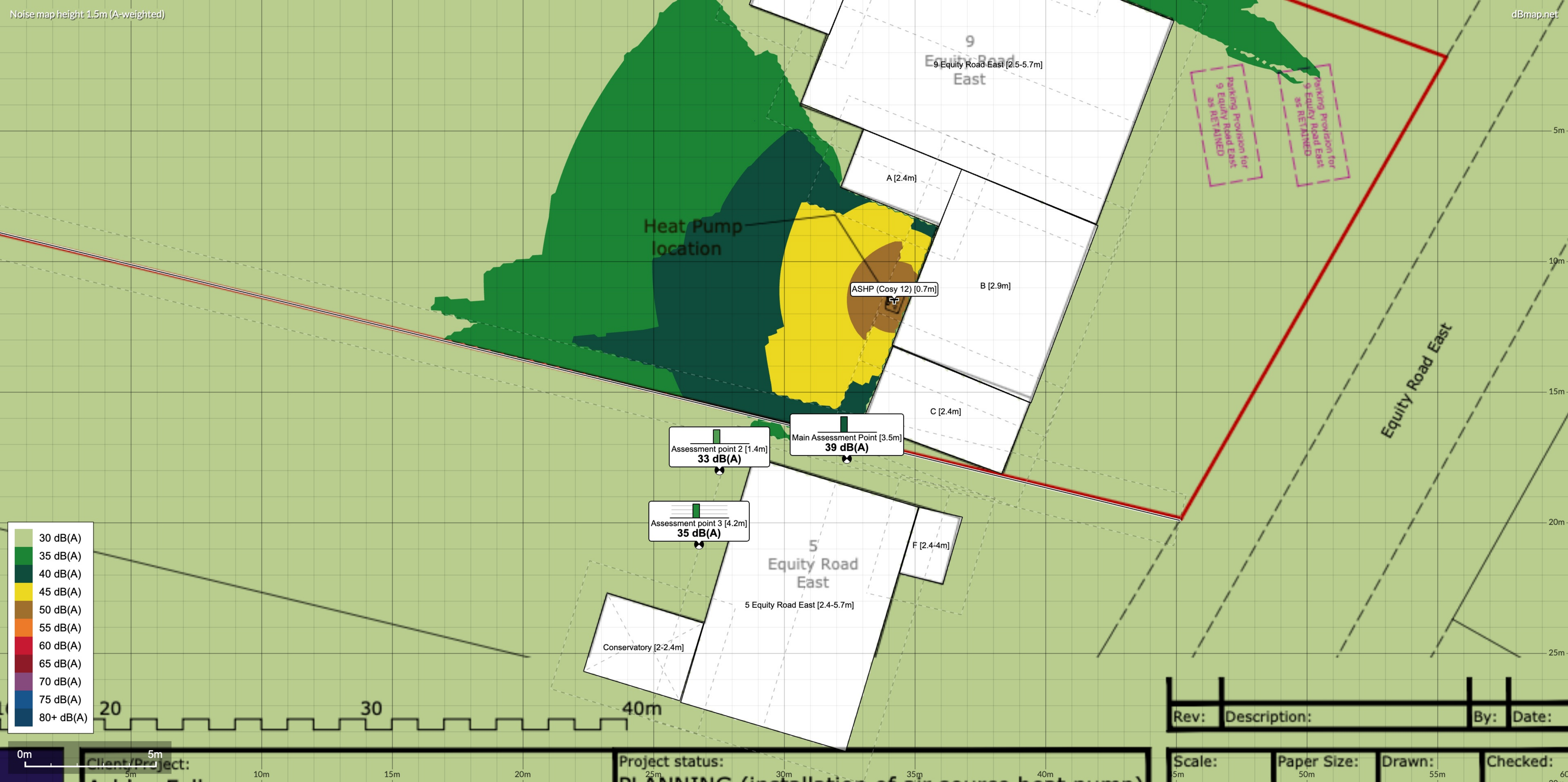
- **Reflection Coefficient (0.982)**: Applied to all vertical surfaces, assuming 98.2% of sound energy is reflected back into the environment.
- **Ground Factor (G=0)**: Hard ground applied to the entire propagation path to negate soft ground attenuation, ensuring the predicted levels are conservative.
- **Directivity (Q=4)**: Hemispherical radiation (Q=4) is assumed to account for source directivity resulting from installation in close proximity (250mm) to the reflective host facade as well as the ground.
- **Atmospheric Absorption**: Standard ISO conditions (10°C, 70%RH) applied.

A.4. GLOSSARY OF ACOUSTIC TERMS

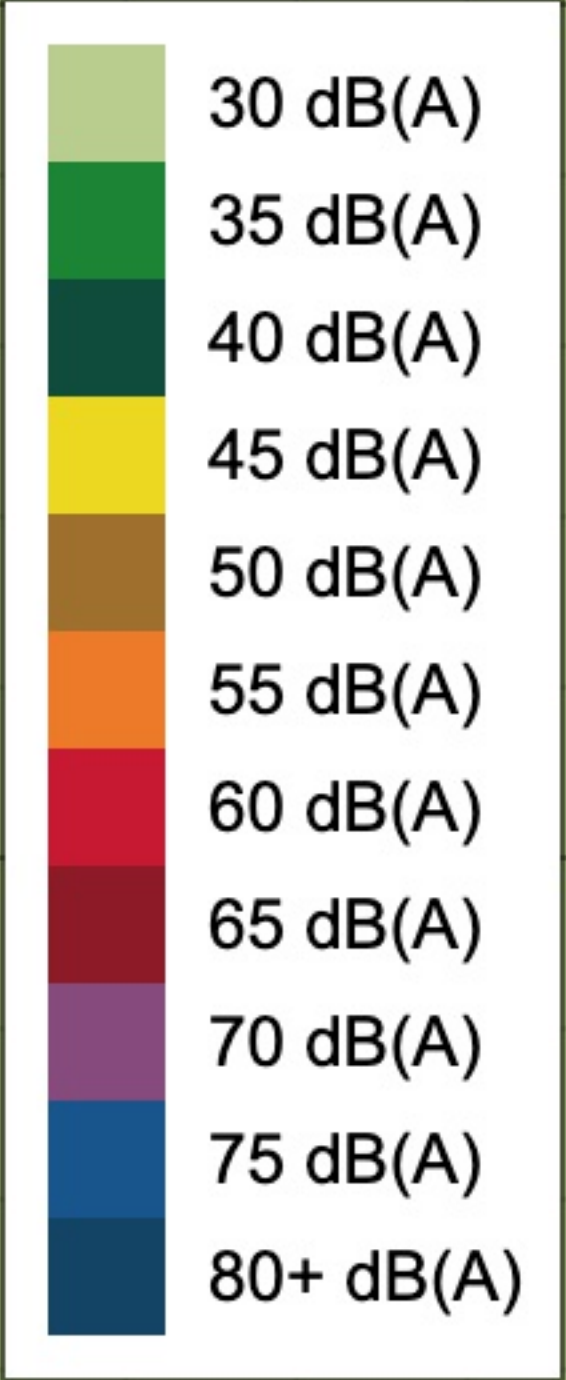
- **dB(A):** A-weighted decibels; a logarithmic scale reflecting the frequency response of the human ear.
- **L_{Aeq,T}:** The "Equivalent Continuous Sound Level" over a specified time period "T".
- **Rating Level (L_{Ar}, Tr):** The specific noise level of the source plus any adjustment for characteristic features.
- **Sound Power Level (L_W):** The total sound energy radiated by a source per unit of time.











1:200
0 2 4 6 8 10 12 14 16 18 20 30 40m

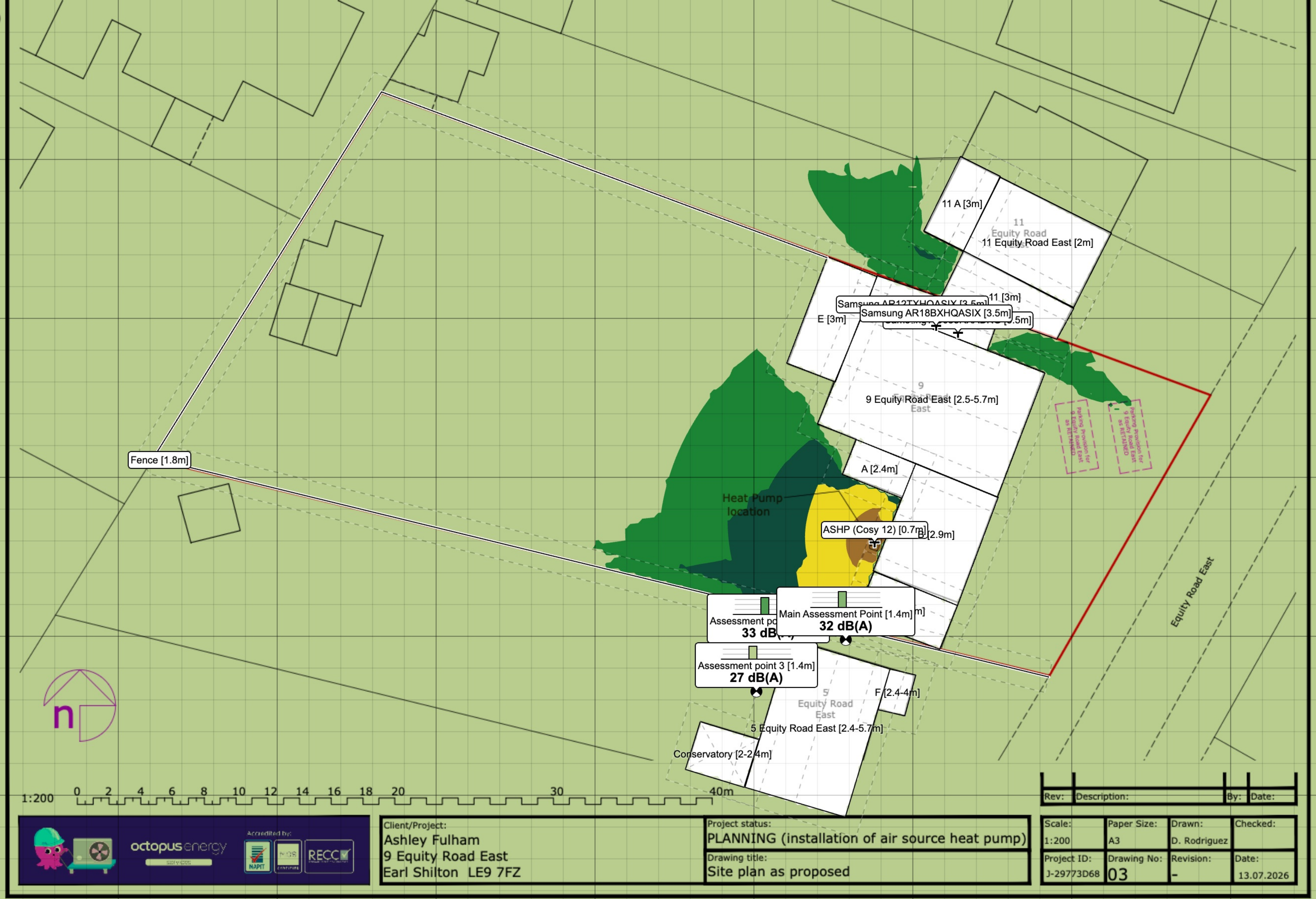
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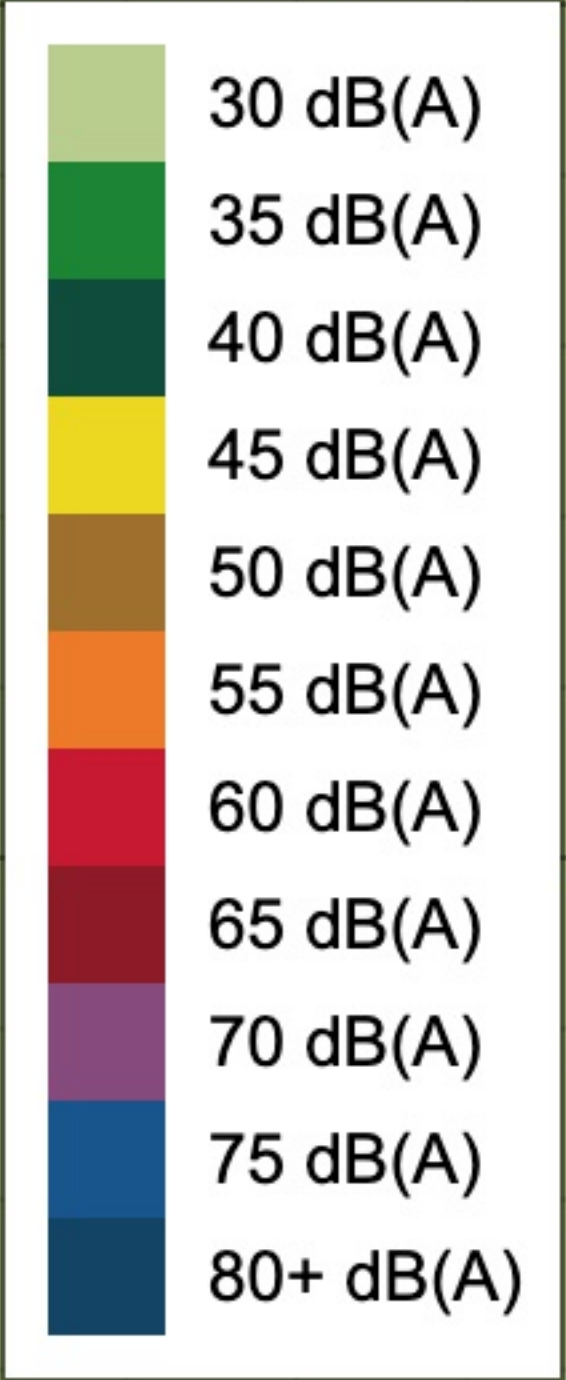
Client/Project:
Ashley Fulham
9 Equity Road East
Earl Shilton LE9 7FZ

Project status:
PLANNING (installation of air source heat pump)

Drawing title:
Site plan as proposed

Rev:	Description:	By:	Date:
Scale:	Paper Size:	Drawn:	Checked:
1:200	A3	D. Rodriguez	
Project ID:	Drawing No:	Revision:	Date:
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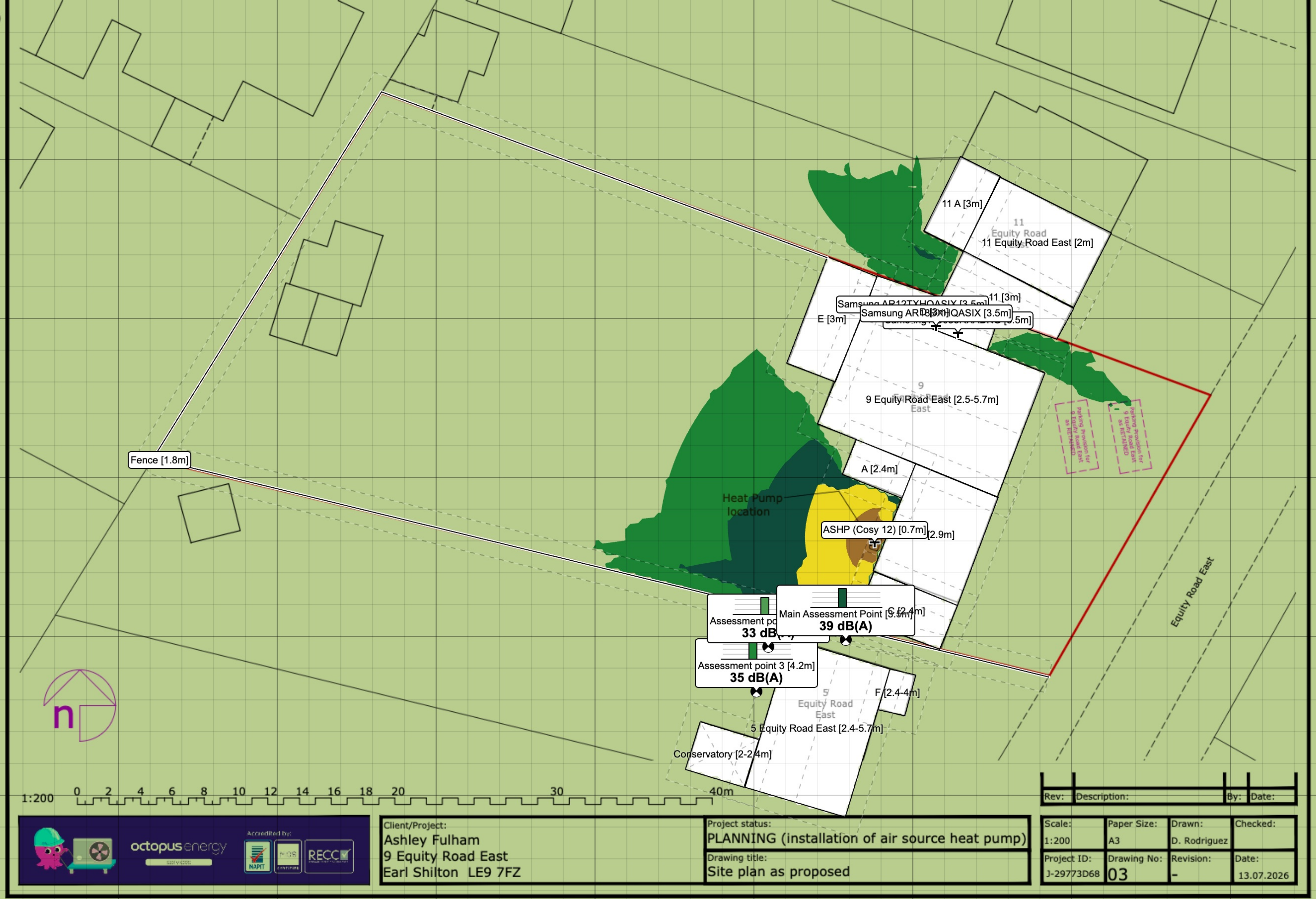
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9 Equity Road East
Earl Shilton LE9 7FZ

Project status:
PLANNING (installation of air source heat pump)

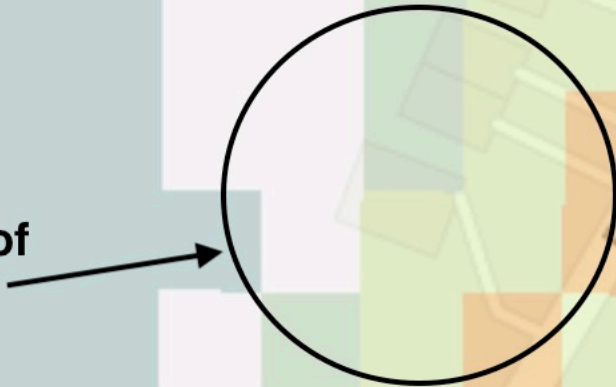
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Site plan as proposed

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Scale:	Paper Size:	Drawn:	Checked:
1:200	A3	D. Rodriguez	
Project ID:	Drawing No:	Revision:	Date:
J-29773D68	03	-	13.07.2026





Approximate loacation of
applicant's property



**Road Noise - All Metrics -
England Round 4**

Department for Environment, Food & Rural
Affairs

- ☐ All Layers
- ☒ Road_Noise_LAeq16hr_England_Round_4_All ^



- ☐ Road_Noise_LAeq16hr_England_Round_4_Maj v
- ☐ Road_Noise_Lday_England_Round_4_All v
- ☐ Road_Noise_Lday_England_Round_4_Maj v
- ☐ Road_Noise_Lden_England_Round_4_All v



Defra OGC preview

Layers Download

LE9 7FZ



Approximate location of
applicant's property

☐ Road_Noise_Lday_England_Round_4_All

☐ Road_Noise_Lday_England_Round_4_Maj

☐ Road_Noise_Lden_England_Round_4_All

☐ Road_Noise_Lden_England_Round_4_Maj

☐ Road_Noise_Leve_England_Round_4_All

☐ Road_Noise_Leve_England_Round_4_Maj

☒ Road_Noise_Lnight_England_Round_4_All

- <35
- 35 to <40
- 40 to <45
- 45 to <50
- 50 to <55
- 55 to <60
- 60 to <65
- 65 to <70
- 70 to <75
- 75 to <80
- >=80

☐ Road_Noise_Lnight_England_Round_4_Maj



Noise Mapping Results																	
--- Receiver Results - Summary ---																	
Receiver Name	Height (m)	Total dB(A)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz							
Main Assessment Point		1.4	31.58				31.58										
Main Assessment Point		3.5	38.93														
Assessment point 2		1.4	33.32				33.32										
Assessment point 3		1.4	26.65				26.65										
Assessment point 3		4.2	34.83				34.83										
--- Receiver Results - Sources Analysis ---																	
Receiver Name	Height (m)	Total dB(A)	ASHP (Cosy 12)	Samsung AC035RXADKG	Samsung AR12TXHQASIX	Samsung AR18BXHQASIX											
Main Assessment Point		1.4	31.58	31.45	10.67	9.91	12.62										
Main Assessment Point		3.5	38.93	38.88	13.54	14.6	15.53										
Assessment point 2		1.4	33.32	33.22	10.93	11.98	12.96										
Assessment point 3		1.4	26.65	25.95	11.25	14.06	14.86										
Assessment point 3		4.2	34.83	34.73	12.27	13.56	14.33										
--- Receiver Results - Full Detail ---																	
Receiver Name	Source Name	Distance to source (m)	Height including ground level (m)	Source height including ground level (m)	Frequency (Hz)	Lw	Ad	Aa	Ag	Ab (total)	Ab (top edge)	Ab (lateral 1)	Ab (lateral 2)	Adjustment	Weighting	Lp	
Main Assessment Point	ASHP (Cosy 12)	6.39	1.4	0.7	500		64.2	-27.12	-0.01	2.81	-9					2	-3.2 29.68
Main Assessment Point	ASHP (Cosy 12) (reflected by A)	12.84	1.4	0.7	500		64.11	-33.17	-0.03	2.95	-8.32	-8.32			2	-3.2 24.34	
Main Assessment Point	ASHP (Cosy 12) (reflected by 5 Equity Road East + C)	11.38	1.4	0.7	500		64.02	-32.13	-0.03	2.94	-11.1	-11.1			2	-3.2 22.51	
Main Assessment Point	ASHP (Cosy 12) (reflected by 5 Equity Road East + B)	17.67	1.4	0.7	500		64.02	-35.95	-0.04	2.97	-17	-17			2	-3.2 12.81	
Main Assessment Point	Samsung AR18BXHQASIX	20.68	1.4	3.5	500		66.2	-37.31	-0.05	2.9	-18.98	-19.21	-31.76		0	-3.2 9.57	
Main Assessment Point	Samsung AR12TXHQASIX	20.86	1.4	3.5	500		65.2	-37.39	-0.05	2.91	-18.98	-19.2	-32.1		0	-3.2 8.49	
Main Assessment Point	Samsung AC035RXADKG	20.68	1.4	3.5	500		64.2	-37.31	-0.05	2.9	-18.93	-19.19	-31.4		0	-3.2 7.61	
Main Assessment Point	Samsung AR18BXHQASIX (reflected by 5 Equity Road East + C)	25.67	1.4	3.5	500		66.02	-39.19	-0.06	2.94	-18.91	-18.91			0	-3.2 7.6	
Main Assessment Point	Samsung AC035RXADKG (reflected by 5 Equity Road East + C)	25.65	1.4	3.5	500		64.02	-39.18	-0.06	2.94	-18.88	-18.88			0	-3.2 5.64	
Main Assessment Point	Samsung AR18BXHQASIX (reflected by 5 Equity Road East + B)	31.94	1.4	3.5	500		66.02	-41.09	-0.07	2.96	-19.21	-19.21			0	-3.2 5.42	
Main Assessment Point	Samsung AR12TXHQASIX (reflected by 5 Equity Road East + B)	32.14	1.4	3.5	500		65.02	-41.14	-0.07	2.96	-19.21	-19.21			0	-3.2 4.36	
Main Assessment Point	Samsung AC035RXADKG (reflected by 5 Equity Road East + B)	31.88	1.4	3.5	500		64.02	-41.07	-0.07	2.96	-19.17	-19.17			0	-3.2 3.47	
Main Assessment Point	ASHP (Cosy 12)	6.95	3.5	0.7	500		64.2	-27.83	-0.02	2.62	0	0			2	-3.2 37.77	
Main Assessment Point	ASHP (Cosy 12) (reflected by A)	13.12	3.5	0.7	500		64.11	-33.36	-0.03	2.88	0	0			2	-3.2 32.4	
Main Assessment Point	Samsung AR18BXHQASIX	20.58	3.5	3.5	500		66.2	-37.27	-0.05	2.77	-12.92	-13.47	-26.16	-24.39	0	-3.2 15.53	
Main Assessment Point	Samsung AR12TXHQASIX	20.75	3.5	3.5	500		65.2	-37.34	-0.05	2.77	-12.79	-13.46	-26.93	-22.55	0	-3.2 14.6	
Main Assessment Point	Samsung AC035RXADKG	20.57	3.5	3.5	500		64.2	-37.27	-0.05	2.77	-12.91	-13.44	-25.23	-25.51	0	-3.2 13.54	
Assessment point 2	ASHP (Cosy 12)	9.36	1.4	0.7	500		64.2	-30.43	-0.02	2.91	-7.53	-7.53			2	-3.2 27.93	
Assessment point 2	ASHP (Cosy 12) (reflected by B)	9.88	1.4	0.7	500		64.11	-30.89	-0.02	2.92	-7.42	-7.42			2	-3.2 27.49	
Assessment point 2	ASHP (Cosy 12) (reflected by 5 Equity Road East + Fence)	12.13	1.4	0.7	500		64.02	-32.68	-0.03	2.94	-7.39	-7.39			2	-3.2 25.68	
Assessment point 2	ASHP (Cosy 12) (reflected by A)	15.5	1.4	0.7	500		64.11	-34.81	-0.04	2.97	-6.7	-6.7			2	-3.2 24.33	
Assessment point 2	ASHP (Cosy 12) (reflected by B + A)	15.81	1.4	0.7	500		64.02	-34.98	-0.04	2.97	-6.65	-6.65			2	-3.2 24.12	
Assessment point 2	Samsung AR18BXHQASIX	22.89	1.4	3.5	500		66.2	-38.19	-0.05	2.92	-14.71	-14.71			0	-3.2 12.96	
Assessment point 2	ASHP (Cosy 12) (reflected by 9 Equity Road East)	20.12	1.4	0.7	500		64.07	-37.07	-0.05	2.98	-15.85	-15.85			2	-3.2 12.88	
Assessment point 2	Samsung AR12TXHQASIX	22.74	1.4	3.5	500		65.2	-38.14	-0.05	2.92	-14.75	-14.75			0	-3.2 11.98	
Assessment point 2	Samsung AC035RXADKG	23.17	1.4	3.5	500		64.2	-38.3	-0.05	2.92	-14.64	-14.64			0	-3.2 10.93	
Assessment point 3	ASHP (Cosy 12)	12	1.4	0.7	500		64.2	-32.58	-0.03	2.94	-12.68	-12.68			2	-3.2 20.66	
Assessment point 3	ASHP (Cosy 12) (reflected by A)	18.3	1.4	0.7	500		64.11	-36.25	-0.04	2.97	-9.78	-9.78			2	-3.2 19.82	
Assessment point 3	ASHP (Cosy 12) (reflected by B)	12.37	1.4	0.7	500		64.11	-32.85	-0.03	2.95	-14.1	-14.1			2	-3.2 18.88	
Assessment point 3	ASHP (Cosy 12) (reflected by B + A)	18.53	1.4	0.7	500		64.02	-36.36	-0.04	2.98	-10.94	-10.94			2	-3.2 18.46	
Assessment point 3	ASHP (Cosy 12) (reflected by A + Conservatory)	23.77	1.4	0.7	500		64.02	-38.52	-0.05	2.99	-11.97	-11.97			2	-3.2 15.26	
Assessment point 3	Samsung AR18BXHQASIX	25.77	1.4	3.5	500		66.2	-39.22	-0.06	2.94	-13.95	-14.46	-23.46		0	-3.2 12.71	
Assessment point 3	Samsung AR12TXHQASIX	25.66	1.4	3.5	500		65.2	-39.18	-0.06	2.94	-13.66	-14.49	-21.25		0	-3.2 12.03	
Assessment point 3	Samsung AR18BXHQASIX (reflected by Conservatory)	31.34	1.4	3.5	500		66.11	-40.92	-0.07	2.96	-14.11	-14.11			0	-3.2 10.77	
Assessment point 3	Samsung AC035RXADKG	26.01	1.4	3.5	500		64.2	-39.3	-0.06	2.94	-14.4	-14.4			0	-3.2 10.78	
Assessment point 3	Samsung AR12TXHQASIX (reflected by Conservatory)	31.26	1.4	3.5	500		65.11	-40.9	-0.07	2.96	-14.13	-14.13			0	-3.2 9.77	
Assessment point 3	Samsung AC035RXADKG (reflected by Conservatory)	31.53	1.4	3.5	500		64.11	-40.97	-0.07	2.96	-18.18	-18.18			0	-3.2 4.64	
Assessment point 3	ASHP (Cosy 12) (reflected by A)	18.61	4.2	0.7	500		64.11	-36.4	-0.04	2.93	0	0			2	-3.2 29.4	
Assessment point 3	ASHP (Cosy 12) (reflected by B + A)	18.85	4.2	0.7	500		64.02	-36.5	-0.04	2.93	0	0			2	-3.2 29.21	
Assessment point 3	ASHP (Cosy 12)	12.48	4.2	0.7	500		64.2	-32.92	-0.03	2.85	-4.42	-4.42			2	-3.2 28.48	
Assessment point 3	ASHP (Cosy 12) (reflected by B)	12.84	4.2	0.7	500		64.11	-33.17	-0.03	2.85	-5.06	-5.06			2	-3.2 27.5	
Assessment point 3	Samsung AR18BXHQASIX	25.7	4.2	3.5	500		66.2	-39.2	-0.06	2.82	-12.23	-12.81	-26.73	-22.73	0	-3.2 14.33	
Assessment point 3	Samsung AR12TXHQASIX	25.58	4.2	3.5	500		65.2	-39.16	-0.06	2.82	-12.04	-12.85	-27.5	-20.52	0	-3.2 13.56	
Assessment point 3	Samsung AC035RXADKG	25.94	4.2	3.5	500		64.2	-39.28	-0.06	2.82	-12.21	-12.72	-25.8	-23.98	0	-3.2 12.27	
--- Sources ---																	
Source Name	Height (m)	Total dB(A)	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz							
Samsung AC035RXADKG		3.5	61				64.2										
Samsung AR18BXHQASIX		3.5	63				66.2										
Samsung AR12TXHQASIX		3.5	62				65.2										
ASHP (Cosy 12)		0.7	63				66.2										
--- Objects ---																	
Receivers	x	y	Height														
Main Assessment Point		51.96	37.46	3.5													
Assessment point 2		47.1	37.89	1.4													
Assessment point 3		46.32	40.74	4.2													
Point Sources	x	y	Height	Lw	Hz	Adjust Level											
Samsung AC035RXADKG		59.03	18.14	3.5	64.2	500											
Samsung AR18BXHQASIX		57.66	17.69	3.5	66.2	500											
Samsung AR12TXHQASIX		56.17	17.14	3.5	65.2	500											
ASHP (Cosy 12)		53.78	31.37	0.7	64.2	500	2										
Barriers	x	y	Height	Reflection Coefficient													
Fence		50.78	13.44	1.8	0.98												
-		22.72	3														
-		8.35	26.06														
-		64.72	39.81														
Buildings	x	y	Height	Reflection Coefficient													
9 Equity Road East		53.29	16.29	2.5	0.97												
-		50.2	23.86	5.7													
-		61.52	28.48														
-		64.48	20.69														
D		53.28	16.32	3	0.98												
-		60.88	19.23														
-		61.6	17.21														
-		53.91	14.55														
E		48.23	20.07	3	0.97												
-		50.8	13.39														
-		53.95	14.6														
-		51.29	21.23														
B		56.36	26.38	2.9	0.98												
-		53.7	33.11														
-		59.01	35.32														
-		61.58	28.53														
C		57.89	38.04	2.4	0.98												
-		52.55	36.05														
-		53.73	33.17														
-		58.98	35.32														
A		56.38	26.38	2.4	0.98												
-		52.61	24.86														</

-		42.8	42.61																
-		41.89	45.6																
11		66.28	16.6	3	0.98														
-		59.35	13																
-		57.92	15.95																
-		65.25	18.58																
11 Equity Road East		66.31	16.54	2	0.98														
-		59.35	13																
-		61.69	8.35																
-		68.65	11.89																
11 A		59.19	7.09	3	0.98														
-		56.85	11.78																
-		59.35	13.03																
-		61.69	8.34																
---	Configuration ---																		
	General Calculation Method: ISO9613-2:2024																		
	Hard Ground (Ground Factor = 0)																		
	15.0°C Temperature																		
	70% Humidity																		
	Results are A-weighted																		
	Second order reflections are included																		
	Vertical edges (lateral paths) are included. Limited to convex paths. Lateral paths have distance limit applied (ISO17534-3)																		
---	Key ---																		
Lw	Sound Power Level (dB)																		
Lp	Sound Pressure Level (dB)																		
Ad	Distance attenuation																		
Ab	Barrier attenuation																		
Ag	Ground effect																		
Aa	Air absorption																		