NOISE ASSESSMENT OF
SITE AT
GREEN ROAD
DODWORTH
BARNSLEY

An Assessment on Behalf of
John R Paley Associates

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Environmental Studies

1. Background

It was proposed that the site of the planned development be assessed so as to determine noise levels with particular reference to The Travellers Inn Public House, Dodworth Green Road, Barnsley.

2. Criteria

BS 8233:1999 ('Sound insulation and noise reduction for buildings – Code of practice') gives guidance on acceptable noise levels within dwellings (Table 5 Section 7.6.1.3). The following table shows the internal noise levels it recommends with regard to housing :-

Criterion	Typical Situations	Design range $L_{Aeq,T}$ dB	
		Good	Reasonable
Reasonable resting/sleeping conditions	Living Rooms	30	40
	Bedrooms	30	35

3. Method of Assessment

The site at Green Road, Barnsley was visited on 14th November 2008 and long-term noise measurements established 4.5 metre from ground, 1 metre from the façade at the existing property 'The Old Stables' North West of the proposed site (see Figure 1 overleaf for microphone positions), a point within the proposed site which represented the location of the nearest property to the rear of The Travellers Inn.

4. Noise Measurements

Noise measurements were conducted between 14th November and 18th November 2008

Equipment used: Cirrus Sound Level Meter CR:811B Class 1
Serial Number C17973FD.

Calibration: Field calibration was carried out before and after the noise measures using CEL 284/2 Acoustical Calibrator
Serial Number 05411626.

All equipment used was within calibration.

Mic. Position: 4.5m from ground, 1 metre from the façade.

Weather: At the time of the noise measures the weather was overcast with little or no wind with isolated showers.

Noise Sources: The site of the proposal is adjacent to the rear of The Travellers Inn Public House. The site is currently screened from the public house by a stone wall approximately 1.5 to 2.0m high. The site slopes down away from the existing buildings rear of the public house.

5. Results

The average L_{Aeq} (daytime & night-time) noise levels measured at the Dodworth site

are given in the table below :

	Measurement Position	
	16 hour LAeq (07:00 – 23:00)	8 hour LAeq (23:00 – 07:00)
Noise Level dB	47.4	45.2

The noise measurements were conducted over a weekend period to take into account the expected busiest times (Friday and Saturday) at The Travellers Inn. The car park of the public house is to the front and so the expected noise sources would only be from customers in the beer garden.

6. Discussion and Recommendations

The measured and calculated noise values at the Dodworth site are such that a 'good' internal noise standard could be achieved in the living room and bedroom of residential properties as specified in BS8233 if design features are incorporated into the development.

The daytime and night time noise values may be higher in the summer periods, and due to the close proximity to the public house it is recommended that any garden areas of the front line properties facing the rear of the public house are screened by a barrier in the form of a 2 metre high close boarded fence or similar solid construction to act as an acoustic barrier and to increase privacy to the property.

Standard sealed unit windows- even partially opened would be sufficient to maintain a good internal noise climate if a noise barrier as detailed above were to be constructed

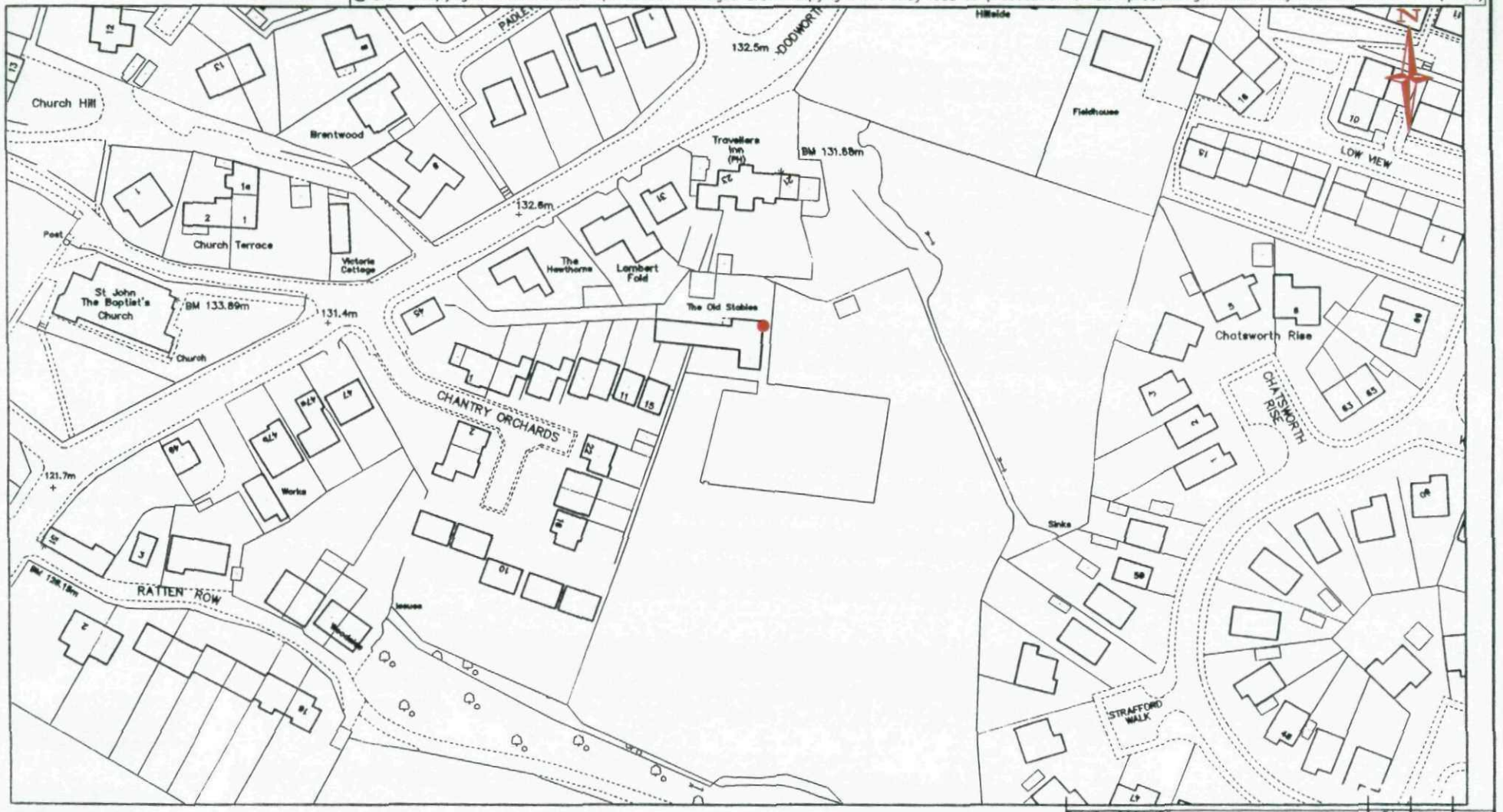
7. Conclusions

Whilst part of the site of this proposal lies adjacent to The Travellers Inn, the noise levels measured indicate that good internal noise levels will be achieved within the

development with the incorporation of the noise mitigation features recommended in this report.

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