

# M25 junction 10/A3 Wisley interchange TR010030

## 6.5 Environmental Statement: Appendix 6.4 Predicted road traffic noise levels at selected locations

Regulation 5(2)(a)  
Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009



## **Infrastructure Planning**

### **Planning Act 2008**

#### **The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (as amended)**

### **M25 junction 10/A3 Wisley interchange**

#### **The M25 junction 10/A3 Wisley interchange Development Consent Order 202[x ]**

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#### **6.5 ENVIRONMENTAL STATEMENT:**

#### **APPENDIX 6.4 PREDICTED ROAD TRAFFIC NOISE LEVELS AT SELECTED LOCATIONS**

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# **Appendix 6.4:**

## **Predicted road traffic noise levels at selected locations**

## 6.1 Introduction

- 6.1.1 This document presents the predicted road traffic noise levels in the operation phase of the Scheme in its opening year (2022) and future assessment year (2037) for a selection of sensitive receptors within the study area.
- 6.1.2 The predicted road traffic noise levels for the following traffic scenarios are provided in this document:
- Do Minimum 2022 (DM 2022) – without the Scheme in the opening year;
  - Do Something 2022 (DS 2022) – with the Scheme in the opening year;
  - Do Minimum 2037 (DM 2037) – without the Scheme in the future assessment year; and
  - Do Something 2037 (DS 2037) – with the Scheme in the future assessment year.
- 6.1.3 Multiple prediction points were used to establish the level of noise impact at sensitive receptors. For example, at least one prediction point was modelled on each façade of a noise-sensitive building. The results presented in this section are the predicted road traffic noise levels at 1m from the worst affected façade and floor (or prediction point) at each of the selected sensitive receptors. The worst affected façade and floor of noise-sensitive properties was the one where the highest noise levels were predicted.
- 6.1.4 For further details about the assessment methodology, modelling assumptions and limitations, and the significance threshold levels used to appraise the Scheme, please refer to Chapter 6 (Noise and Vibration) of the ES Volume 1.

## 6.2 Predicted daytime road traffic noise levels

- 6.2.1 Table 6.2.1 below shows the predicted daytime ( $L_{A10,18h}$ ) road traffic noise levels at a representative selection of residential and non-residential sensitive receptors in the study area.

**Table 6.2.1: Predicted daytime road traffic noise levels at selected locations**

Noise-sensitive receptor	Road traffic noise levels ( $L_{A10,18h}$ , dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
Guilehill Lodge, Guilehill Lane	61.2	61.6	64.2	64.1	+0.4	+2.9
Tankards, Ockham Road North, Ockham	68.0	68.0	69.3	69.9	0	+1.9
Rosevine, Ockham Road North	67.0	67.2	69.0	69.2	+0.2	+2.2
The Old Post House, Alms Heath	70.0	70.0	71.9	71.9	0	+1.9
Ockham Parish Room, Ockham Lane	58.4	58.3	59.0	59.5	-0.1	+1.1
2 Appstree Cottages, Ockham Lane	58.1	59.2	62.9	64.1	+1.1	+6.0
Orchard Cottage, Elm Corner	65.7	62.8	63.2	63.2	-2.9	-2.5
1 Fellside Cottages, Elm Corner	66.2	63.0	63.5	63.5	-3.2	-2.7



Noise-sensitive receptor	Road traffic noise levels ( $L_{A10,18h}$ , dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
Red Rose Cottage, Ockham Lane	59.3	60.3	64.1	65.4	+1.0	+6.1
Bassetts, Old Lane	67.0	66.8	68.3	69.0	-0.2	+2.0
Hatchford End Corner, Old Lane	67.5	66.7	67.4	68.5	-0.8	+1.0
Royal Horticultural Society Gardens, Wisley Lane	62.3	60.9	61.4	61.4	-1.4	-0.9
Oakland Lodge, Wisley Lane	64.6	63.3	65.1	64.3	-1.3	-0.3
The Lilacs, Wisley	64.8	62.8	66.4	65.1	-2.0	+0.3
Hut Hill Cottage, Wisley Common	69.5	67.5	67.6	68.0	-2.0	-1.5
Birchmere Scout Campsite, Wisley	70.1	69.9	70.3	70.1	-0.2	0
Pipers Hill, Murray's Lane, Byfleet	83.7	83.7	84.1	84.1	0	+0.4
Holly Bush Stables, Flat B, Sanway Road	81.0	80.9	81.3	81.4	-0.1	+0.4
Semaphore Tower, Cobham	73.1	73.1	73.5	73.7	0	+0.6
Woodlands, Pointers Road, Cobham	67.4	66.9	67.8	67.5	-0.5	+0.1
Chatley Cottage, Pointers Road, Cobham	68.9	68.7	69.4	69.3	-0.2	+0.4
The Lodge, Pointers Road, Cobham	74.3	71.4	74.8	72.1	-2.9	-2.2
Katz Castle Bungalow, Redhill Road	60.7	60.5	60.8	60.5	-0.2	-0.2
Foxwarren Cottage, Redhill Road	70.5	68.3	69.0	68.8	-2.2	-1.7
The Tower, Portsmouth Road	74.9	72.2	72.5	72.8	-2.7	-2.1
Hilton Hotel, Portsmouth Road	64.8	63.3	63.9	63.9	-1.5	-0.9
Court Close Farm, Portsmouth Road	69.3	65.5	66.6	66.2	-3.8	-3.1
San Domenico, Portsmouth Road	72.3	67.0	69.6	67.6	-5.3	-4.7
Heyswood Campsite, Portsmouth Road	77.1	74.3	74.4	75.0	-2.8	-2.1
Temple of Bacchus, Painshill Park	62.1	60.9	61.3	61.4	-1.2	-0.7
Gothic Temple, Painshill Park	58.6	57.7	58.3	58.2	-0.9	-0.4
Great Cedar, Painshill Park	59.6	58.8	59.3	59.3	-0.8	-0.3
The Clock House, Portsmouth Road	68.3	67.8	68.5	68.2	-0.5	-0.1
Pains Hill Farm, Portsmouth Road	68.8	68.3	69.0	68.7	-0.5	-0.1

Noise-sensitive receptor	Road traffic noise levels ( $L_{A10,18h}$ , dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
East Lodge, Pains Hill, Portsmouth Road	74.2	73.4	74.1	73.6	-0.8	-0.6
West Lodge, Pains Hill, Portsmouth Road	76.4	75.1	75.9	75.3	-1.3	-1.1
Pains Hill Bungalow, Portsmouth Road	72.7	72.4	73.1	73.0	-0.3	+0.3
Felton Fleet School, Byfleet Road	75.2	74.3	75.1	75.2	-0.9	0
Felton Fleet Lodge, Byfleet Road	77.9	76.6	78.2	77.4	-1.3	-0.5
Calvi, Byfleet Road, Cobham	76.4	75.2	76.7	75.8	-1.2	-0.6
St George's Nursing Home, Byfleet Road	65.3	64.2	65.1	64.8	-1.1	-0.5
Squirrel Wood, Seven Hills Road	74.0	72.6	74.4	73.3	-1.4	-0.7
Sandy Burrows, Seven Hills Road	68.9	69.1	69.2	69.9	+0.2	+1.0
Button Hide, Seven Hills Road	67.1	67.3	67.4	68.1	+0.2	+1.0
Kingfisher, Convent Lane, Cobham	66.2	66.1	65.6	65.5	-0.1	-0.7
Convent of Notre Dame School, Convent Lane	59.2	59.1	58.1	58.1	-0.1	-1.1

## 6.3 Predicted night-time road traffic noise levels

6.3.1 Table 6.3.1 below shows the predicted night-time ( $L_{night}$ ) noise levels at a representative selection of residential and non-residential sensitive receptors in the study area.

**Table 6.3.1: Predicted night-time road traffic noise levels at selected locations**

Noise-sensitive receptor	Road traffic noise levels ( $L_{night}$ , dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
Guileshill Farm, Guileshill Lane	51.3	51.7	54.0	53.9	+0.4	+2.6
Tankards, Ockham Road North, Ockham	57.4	57.4	58.6	59.1	0	+1.7
Rosevine, Ockham Road North	56.5	56.7	58.3	58.5	0.2	+2.0
The Old Post House, Alms Heath	59.2	59.2	60.9	60.9	0	+1.7
Ockham Parish Room, Ockham Lane	48.8	48.7	49.3	49.8	-0.1	+1.0
2 Appstree Cottages, Ockham Lane	48.5	49.5	52.8	53.9	+1.0	+5.4
Orchard Cottage, Elm Corner	55.4	52.7	53.1	53.1	-2.7	-2.3

Noise-sensitive receptor	Road traffic noise levels ( $L_{night}$ , dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
1 Fellside Cottages, Elm Corner	55.8	52.9	53.4	53.4	-2.9	-2.4
Red Rose Cottage, Ockham Lane	49.6	50.5	53.9	55.1	+0.9	+5.5
Bassetts, Old Lane	56.5	56.4	57.7	58.3	-0.1	+0.8
Hatchford End Corner, Old Lane	57.0	56.3	56.9	57.9	-0.7	+0.9
Royal Horticultural Society Gardens, Wisley Lane	52.3	51.0	51.5	51.5	-1.3	-0.8
Oakland Lodge, Wisley Lane	54.4	53.2	54.8	54.1	-1.2	-0.3
The Lilacs, Wisley	54.6	52.7	56.0	54.8	-1.9	+0.2
Hut Hill Cottage, Wisley Common	58.8	57.0	57.1	57.4	-1.8	-1.4
Birchmere Scout Campsite, Wisley	59.3	59.1	59.5	59.3	-0.2	0
Pipers Hill, Murray's Lane, Byfleet	71.6	71.6	71.9	71.9	0	+0.3
Holly Bush Stables, Flat B, Sanway Road	69.1	69.0	69.4	69.5	-0.1	+0.4
Semaphore Tower, Cobham	62.0	62.0	62.4	62.6	0	+0.6
Woodlands, Pointers Road, Cobham	56.9	56.4	57.3	57.0	-0.5	+0.1
Chatley Cottage, Pointers Road, Cobham	58.2	58.1	58.7	58.6	-0.1	+0.4
The Lodge, Pointers Road, Cobham	63.1	60.5	63.5	61.1	-2.6	-2.0
Katz Castle Bungalow, Redhill Road	50.9	50.7	50.9	50.7	-0.2	-0.2
Foxwarren Cottage, Redhill Road	59.7	57.7	58.3	58.2	-2.0	-1.5
The Tower, Portsmouth Road	63.6	61.2	61.5	61.8	-2.4	-1.8
Hilton Hotel, Portsmouth Road	54.6	53.2	53.7	53.7	-1.4	-0.9
Court Close Farm, Portsmouth Road	58.6	55.2	56.2	55.8	-3.4	-2.8
San Domenico, Portsmouth Road	61.3	56.5	58.9	57.1	-4.8	-4.2
Heyswood Campsite, Portsmouth Road	65.6	63.1	63.2	63.7	-2.5	-1.9
Temple of Bacchus, Painshill Park	52.1	51.0	51.4	51.5	-1.1	-0.6
Gothic Temple, Painshill Park	49.0	48.2	48.7	48.6	-0.8	-0.4
Great Cedar, Painshill Park	49.9	49.1	49.6	49.6	-0.8	-0.3
The Clock House, Portsmouth Road	57.7	57.3	57.9	57.6	-0.4	-0.1
Pains Hill Farm, Portsmouth Road	58.2	57.7	58.3	58.1	-0.5	-0.1
East Lodge, Pains Hill, Portsmouth Road	63.0	62.3	62.9	62.5	-0.7	-0.5
West Lodge, Pains Hill, Portsmouth Road	65.0	63.8	64.5	64.0	-1.2	-1.0
Pains Hill Bungalow, Portsmouth Road	61.7	61.4	62.0	61.9	-0.3	+0.2



Noise-sensitive receptor	Road traffic noise levels ( $L_{night}$ , dB)				Change (dB)	
	DM 2022	DS 2022	DM 2037	DS 2037	Short-term	Long-term
Felton Fleet School, Byfleet Road	63.9	63.1	63.8	63.9	-0.8	0
Felton Fleet Lodge, Byfleet Road	66.3	65.2	66.6	65.9	-1.1	-0.4
Calvi, Byfleet Road, Cobham	65.0	63.9	65.3	64.5	-1.1	-0.5
St George's Nursing Home, Byfleet Road	55.0	54.0	54.8	54.6	-1.0	-0.4
Squirrel Wood, Seven Hills Road	62.8	61.6	63.2	62.2	-1.2	-0.6
Sandy Burrows, Seven Hills Road	58.2	58.4	58.5	59.1	+0.2	+0.9
Button Hide, Seven Hills Road	56.6	56.8	56.9	57.5	+0.2	+0.9
Kingfisher, Convent Lane, Cobham	55.8	55.7	55.3	55.2	-0.1	-0.5
Convent of Notre Dame School, Convent Lane	49.5	49.4	48.5	48.5	-0.1	-1.0

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