

M25 Junction 28 improvement scheme

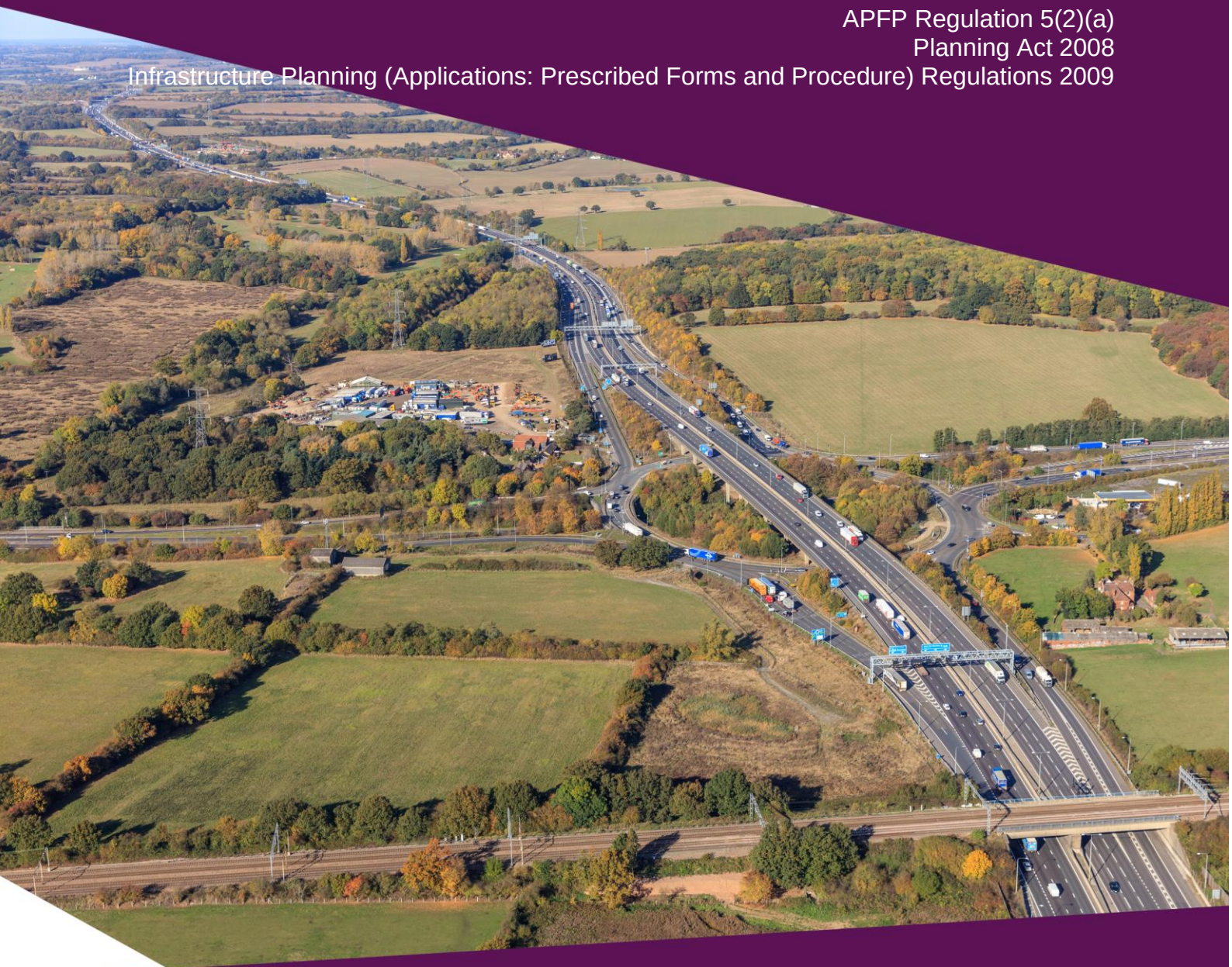
TR010029

6.3 Environmental Statement

Appendix 6.2: Construction noise and vibration

APFP 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

M25 junction 28 scheme Development Consent Order 202[x]

6.3 ENVIRONMENTAL STATEMENT APPENDIX 6.2 CONSTRUCTION NOISE AND VIBRATION

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR010029
Application Document Reference:	TR010029/APP/6.3
Author:	M25 junction 28 improvement scheme project team, Highways England

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Appendix 6.2

Construction noise and vibration

6. Construction noise and vibration

6.1 Introduction

- 6.1.1 This document presents the data used to predict the daytime and night-time construction noise levels for the Scheme that are presented in the Noise and Vibration chapter (Chapter 6) of ES (application document TR010029/APP/6.1) and monthly breakdown of highest daily daytime and night-time construction noise levels month with and without mitigation.
- 6.1.2 Information relating to the proposed construction activities, plant lists, on-times, and construction phasing was provided by the buildability contractor, along with an indicative construction programme. Noise data from BS 5228:2009 + A1:2014 has been assigned to the named items of plant in order to calculate the activity noise level. Other data sources, such as measurement data, have been used where a similar item of plant could not be found in BS 5228.
- 6.1.3 For further information regarding the assessment methodology and assumptions, please refer to Noise and Vibration chapter (Chapter 6) of ES (application document TR010029/APP/6.1).

6.2 Construction noise

- 6.2.1 Table 6.1 shows the construction activity considered for the study and the associated plant list and the respective noise levels, quantity percentage on-time and corrections.

Table 6.1: Construction equipment list per activity

Construction Activity	Plant	Total L _{Aeq} at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L _{Aeq} corrected (dB)
Site enabling works	Tracked excavator (14T)	69	1	85	-0.7	68.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
Utilities diversion	Tracked excavator (14T)	69	1	85	-0.7	68.3
	Dumper (6T)	79	1	85	-0.7	78.3
	Water pump	68	2	100	0.0	71.0
Site compound set-up	Tracked excavator (25T)	77	2	85	-0.7	79.3
	Tracked dozer D6 (20T)	83	2	85	-0.7	85.3
	Articulated dump truck	81	4	85	-0.7	86.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
	Dumper (6T)	79	2	85	-0.7	81.3
	Roller (12T)	84	2	40	-4.0	83.0
	Concrete mixer truck	80	1	40	-4.0	76.0
	Poker vibrator	78	1	85	-0.7	77.3
	Road roller	80	2	85	-0.7	82.3
	Asphalt paver	77	1	85	-0.7	76.3
Site compounds maintenance	4 axled tipper wagon	80	10	85	-10.0	80.0
	Tracked excavator (25T)	77	3	85	-10.0	71.8
	Diesel generator	66	2	100	0.0	69.0
	Road sweeper	76	1	40	-10.0	66.0
	Wheeled loader	79	2	20	-10.0	72.0
	Telescopic handler	79	2	85	-10.0	72.0
	Fuel tanker lorry	76	1	20	-10.0	66.0

Construction Activity	Plant	Total L _{Aeq} at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L _{Aeq} corrected (dB)
Cadent and UKPN gas diversion works	Tracked excavator (14T)	69	1	85	-0.7	68.3
	Wheeled mobile telescopic crane (400T)	78	2	40	-4.0	77.0
	Large lorry	80	2	85	-0.7	82.3
	Angle grinder	80	1	20	-7.0	73.0
	Dumper (6T)	79	2	85	-0.7	81.3
	Water pump	68	2	100	0.0	71.0
Traffic management	Lorry	80	2	20	-7.0	76.0
<u>Environmental Bund / Earthworks</u>	Tracked excavator (25T)	77	3	85	-0.7	81.1
	Tracked dozer D6 (20T)	83	1	85	-0.7	82.3
	Articulated dump truck	81	2	85	-0.7	83.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
	Roller (12T)	84	2	40	-4.0	83.0
Drainage	Tracked excavator (14T)	69	1	85	-0.7	68.3
	Roller (1.5T)	77	1	40	-4.0	73.0
	Dumper (6T)	79	2	85	-0.7	81.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
Retaining walls	Water pump	68	1	100	0.0	68.0
	Piling rig	77	1	85	-0.7	76.3
	Concrete mixer truck	80	1	40	-4.0	76.0
	Tracked excavator (14T)	69	2	85	-0.7	71.3
	Dumper (6T)	79	1	85	-0.7	78.3
	Poker vibrator	78	1	40	-4.0	74.0

Construction Activity	Plant	Total L _{Aeq} at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L _{Aeq} corrected (dB)
Road formation level	Concrete pump	80	1	20	-7.0	73.0
	Tracked excavator (25T)	77	3	85	-0.7	81.1
	Tracked dozer D6 (20T)	83	1	85	-0.7	82.3
	Grader	81	2	85	-0.7	83.3
	Articulated dump truck	81	2	85	-0.7	83.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
	Roller (12T)	84	2	40	-4.0	83.0
Paving and surface course	Road planer	82	1	85	-0.7	81.3
	Power for lighting	65	2	75	-1.2	66.8
	Road roller	80	2	85	-0.7	82.3
	Asphalt paver	77	1	85	-0.7	76.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
Ground stabilisation	Piling rig	77	1	85	-0.7	76.3
	Concrete mixer truck	80	1	40	-4.0	76.0
	Tracked excavator (14T)	69	1	85	-0.7	68.3
	Poker vibrator	78	1	40	-4.0	74.0
	Concrete pump	80	1	20	-7.0	73.0
Abutments and bridges / Piled walls	Water pump	68	1	100	0.0	68.0
	Piling rig	77	1	85	-0.7	76.3
	Concrete mixer truck	80	1	40	-4.0	76.0
	Tracked excavator (14T)	69	2	85	-0.7	71.3
	Dumper (6T)	79	1	85	-0.7	78.3
	Poker vibrator	78	1	40	-4.0	74.0

Construction Activity	Plant	Total L _{Aeq} at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L _{Aeq} corrected (dB)
Create piling mats for contig wall	Concrete pump	80	1	20	-7.0	73.0
	Tracked excavator (25T)	77	1	85	-0.7	76.3
	Articulated Dump Truck	81	2	85	-0.7	83.3
	Poker Vibrator	78	1	20	-7.0	71.0
	Concrete pump	80	1	10	-10.0	70.0
	Concrete Mixer Truck	80	1	10	-10.0	70.0
Trim piles	Breaker mounted on wheeled backhoe	92	1	40	-4.0	88.0
	Hydraulic breaker power pack	74	1	40	-4.0	70.0
	Gas cutter	79	1	10	-10.0	69.0
	Tracked Excavator (14T)	69	1	40	-4.0	65.0
	Dumper (6T)	79	1	85	-0.7	78.3
Capping beam / RECO walls	Wheeled mobile telescopic crane 400t	78	2	40	-4.0	74.8
	large Lorry	80	2	85	-0.7	79.4
	Water Pump	68	1	100	0.0	64.5
	Poker Vibrator	78	1	40	-4.0	69.9
	Concrete pump	80	1	20	-7.0	68.4
	Concrete Mixer Truck	80	1	40	-4.0	70.9
Abutment diaphragm walls	Poker Vibrator	78	1	40	-4.0	74.0
	Concrete pump	80	1	20	-7.0	73.0
	Concrete Mixer Truck	80	1	40	-4.0	76.0
Stringcourse	Lorry with lifting boom	77	2	40	-4.0	76.0
	Diesel scissor lift	78	2	85	-0.7	80.3

Construction Activity	Plant	Total L _{Aeq} at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L _{Aeq} corrected (dB)
	Air gun	83	2	10	-10.0	76.0
	compressor for air gun	65	2	10	-10.0	58.0
Embankments	Tracked excavator (25T)	77	3	85	-0.7	81.1
	Tracked dozer D6 (20T)	83	1	85	-0.7	82.3
	Articulated dump truck	81	2	85	-0.7	83.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
	Roller (12T)	84	2	40	-4.0	83.0
Watercourse realignment	Tracked excavator (25T)	77	3	85	-0.7	81.1
	Tracked dozer D6 (20T)	83	1	85	-0.7	82.3
	Articulated dump truck	81	2	85	-0.7	83.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
	Roller (12T)	84	2	40	-4.0	83.0
Install culvert	Tracked excavator (25T)	77	3	85	-0.7	81.1
	Tracked dozer D6 (20T)	83	1	85	-0.7	82.3
	Articulated dump truck	81	2	85	-0.7	83.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
	Roller (12T)	84	2	40	-4.0	83.0
Assembly of beams and construction of bridge deck	Wheeled mobile telescopic crane (400T)	78	2	40	-4.0	77.0
	Large lorry	80	2	85	-0.7	82.3
	Air gun	83	2	10	-10.0	76.0
	Compressor for air gun	65	2	10	-10.0	58.0
Road construction	Road planer	82	1	85	-0.7	81.3

Construction Activity	Plant	Total L _{Aeq} at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L _{Aeq} corrected (dB)
	Tracked excavator (25T)	77	3	85	-0.7	81.1
	Grader	81	2	85	-0.7	83.3
	Articulated dump truck	81	2	85	-0.7	83.3
	Power for lighting	65	2	75	-1.2	66.8
	Dumper (6T)	79	2	85	-0.7	81.3
	Road roller	80	2	85	-0.7	82.3
	Asphalt paver	77	1	85	-0.7	76.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
Install road restraint system	Mini piling rig	75	2	60	-2.2	75.8
	Mini tracked excavator (3T)	68	2	85	-0.7	70.3
	Impact wrench	83	2	30	-5.2	80.8
	Compressor	75	2	30	-5.2	72.8
	Lorry mounted crane	70	2	20	-7.0	66.0
Installation of ancillary infrastructure	Tracked excavator (14T)	69	1	85	-0.7	68.3
	Dumper (6T)	79	2	85	-0.7	81.3
	Piling rig	77	1	85	-0.7	76.3
	Road roller	80	2	85	-0.7	82.3
Road remarking	Lorry	80	2	75	-1.2	81.8
Disassemble gantry structure	Wheeled mobile telescopic crane (400T)	78	2	40	-4.0	77.0
	Large lorry	80	2	85	-0.7	82.3
	Impact wrench	83	2	30	-5.2	80.8
	Compressor	75	2	30	-5.2	72.8

Construction Activity	Plant	Total L _{Aeq} at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L _{Aeq} corrected (dB)
	Angle grinder	80	1	20	-7.0	73.0
	Telescopic handler	79	2	85	-10.0	72.0
	Diesel scissor lift	78	1	40	-4.0	74.0
Demolish gantry base	Tracked excavator (25T)	77	3	85	-0.7	81.1
	Tracked dozer D6 (20T)	83	1	85	-0.7	82.3
	Articulated dump truck	81	2	85	-0.7	83.3
	4 axled tipper wagon	80	2	85	-0.7	82.3
	Roller (12T)	84	2	40	-4.0	83.0
	Hand held circular saw - petrol	84	1	20	-7.0	77.0
	Angle grinder	80	1	20	-7.0	73.0
	Pneumatic breaker	80	1	40	-4.0	76.0
	Wheeled loader	79	2	20	-10.0	72.0
Construct piled foundation	Tracked excavator (14T)	69	1	85	-0.7	68.3
	Dumper (6T)	79	2	85	-0.7	81.3
	Piling rig	77	1	85	-0.7	76.3
	Road roller	80	2	85	-0.7	82.3
Construct gantry base	Water pump	68	1	100	0.0	68.0
	Concrete mixer truck	80	1	40	-4.0	76.0
	Concrete pump	80	1	20	-7.0	73.0
	Poker vibrator	78	1	40	-4.0	74.0
	Tracked excavator (14T)	69	1	85	-0.7	68.3
	Dumper (6T)	79	2	85	-0.7	81.3

Construction Activity	Plant	Total L _{Aeq} at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L _{Aeq} corrected (dB)
Install steel works	Wheeled mobile telescopic crane (400T)	78	2	40	-4.0	77.0
	Large lorry	80	2	85	-0.7	82.3
	Impact wrench	83	2	30	-5.2	80.8
	Compressor	75	2	30	-5.2	72.8
	Angle grinder	80	1	20	-7.0	73.0
	Telescopic handler	79	2	85	-10.0	72.0
	Diesel scissor lift	78	1	40	-4.0	74.0
Install/Remove sign plates and equipment	Impact wrench	83	2	30	-5.2	80.8
	Compressor	75	2	30	-5.2	72.8
	Angle grinder	80	1	20	-7.0	73.0
	Telescopic handler	79	2	85	-10.0	72.0
	Diesel scissor lift	78	1	40	-4.0	74.0
Landscaping	Tracked excavator (17T)	73	1	85	-0.7	72.3
	Dumper (6T)	79	2	85	-0.7	81.3

6.2.2 Table 6.2 shows the predicted highest daily daytime (L_{Aeq} , dB) construction noise levels without mitigation at selected representative sensitive receptors in the study area.

Table 6.2: Predicted highest daily daytime construction noise levels at selected location – No mitigation

Sensitive Receptor	Construction noise levels (L _{Aeq} ,dB)																														
	2022												2023												2024						
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Grove Farm, CM14 5NG	67	67	57 72	78	78	78	72 73	72 74	73	74 71	73 71	73 75	73	74	74 73	69 72	76 72	74 70	78 76	78 73	70 78	76 78	78 77	77 78	77 79	74 78	74 76	74 73	70 73	53 68	68
Maylands Cottages, RM3 0AZ	61	61 74	75 74	65 64	66 64	66 64	66 64	65 64	66 65	65 64	66 64	65 64	65 63	65 63	65 64	65 64	66 64	67 64	67 66	66 67	66 68	65 66	65	65 64	65 64	65 64	65 64	65 63	62 63	62 63	
Caravan Park, RM3 0AW	64	64	56 67	76 67	76 67	76 67	77 67	71 68	75 74	73	72 73	72 74	71 69	72 68	72 71	72 70	73 69	72	69 73	69 72	70 71	70 72	71 70	70	70 73	68 71	67 71	64 71	63 66	62 61	63 64
17 Colchester Road, RM3 0AW	61 63	61 74	72 74	64 65	65 66	67 66	66 65	65 66	66 67	64 66	64 66	64 66	64 63	64 63	64	64	69 64	73 64	66 64	66 73	65 67	65 68	64 66	63 65	63 64	64	63 64	63 64	63	58 63	58 63
12, Craven Gardens, RM3 0DF	51	51	61	58	59	59	59	58	60	59	59	59	58	58	58	58	59	61	59	59	59	59	58	58	58	58	58	57	57	52	51
Gardens of Peace Muslim Cemetery	55	55	61	61	62	62	64	62	64	63	64	64	62	62	62	61	62	63	64	65	64	63	61	61	61	61	61	60	60	53	53
10, Woodstock Avenue, RM3 9NF	48	48	58	55	56	56	56	55	57	56	56	56	55	56	56	56	56	57	57	57	56	57	56	55	55	56	55	55	54	50	49

Sensitive Receptor	Construction noise levels (L _{Aeq} ,dB)																														
	2022												2023												2024						
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
42, Woodstock Avenue, RM3 9NF	49	49	58	56	57	57	57	56	57	57	57	57	56	56	56	56	56	57	58	58	57	58	56	56	56	56	56	56	55	50	49
63 Brook Street, CM14 5NA	46	46 49	49 53	55 54	55	55	56 54	56 54	57 54	57 54	56 54	56 57	56 55	56 57	56 58	54 58	54 56	56 57	55	56 55	53 58	56 60	58	57 59	57 59	58 59	56 58	57 56	55	44 51	49 54
60 Brook Street, CM14 5ND	48	48 50	49 54	56	57 56	57 56	57 55	57 55	58 56	58 55	57 55	57 58	57 56	57	57	55 58	55 56	56 57	57	58 55	54 59	57 60	59 60	58 60	59 61	57 60	57 58	54 57	46 53	48 51	
13 Nag's Head Lane, CM14 5NJ	30	30 34	34 39	40	41 40	41 40	42 40	42 40	44 41	43 41	43 41	42 43	42 40	42 41	42	41 42	40 41	41	41	42 40	40 44	42 45	44	43 44	43 45	44 45	42 44	41 42	39 41	32 38	36 38
31, Wingrave Crescent																															

Sensitive Receptor	Construction noise levels (L _{Aeq} ,dB)																													
	2022												2023												2024					
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	SOAEL exceedance																		LOAEL exceedance											

6.2.3 Table 6.3 shows the predicted highest daily night-time (L_{Aeq}, dB) construction noise levels without mitigation at selected representative sensitive receptors in the study area.

Table 6.3: Predicted highest daily night-time construction noise levels at selected location – No mitigation

Sensitive Receptor	Construction noise levels (L _{Aeq} ,dB)																											
	2022												2023												2024			
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb															

Sensitive Receptor	Construction noise levels (L _{Aeq} ,dB)																														
	2022												2023												2024						
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
12, Craven Gardens, RM3 0DF	0	0	10	41	44	45	43	42	42	39	38	37	37	38	38	37	46	46	37	37	52	53	43	43	45	52	47	47	47	43	46
Gardens of Peace Muslim Cemetery	0	0	10	44	48	48	47	45	45	41	39	38	39	39	39	38	46	46	38	38	58	59	45	45	47	54	50	49	49	44	48
10, Woodstock Avenue, RM3 9NF	0	0	10	38	40	40	39	38	38	37	36	35	35	36	36	35	41	41	35	35	50	51	42	42	44	46	46	46	46	42	45
42, Woodstock Avenue, RM3 9NF	0	0	10	39	41	41	40	39	39	36	36	35	35	35	35	35	39	39	35	35	52	53	42	42	44	49	46	46	46	42	45
63 Brook Street, CM14 5NA	0	0 10	10 47	44 36	39 38	39 38	37	38	37	34 33																					

Table 6.4: Predicted highest daily daytime construction noise levels at selected location – With mitigation

Sensitive Receptor	Construction noise levels (L _{Aeq} , dB)																													
	2022												2023												2024					
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Grove Farm, CM14 5NG	<u>67</u> <u>57</u>	<u>67</u> <u>57</u>	<u>57</u> <u>62</u>	68	68	68	<u>62</u> <u>63</u>	<u>62</u> <u>64</u>	63	<u>64</u> <u>61</u>	<u>63</u> <u>61</u>	<u>63</u> <u>65</u>	63	64	<u>64</u> <u>63</u>	<u>59</u> <u>62</u>	66	<u>64</u> <u>60</u>	<u>68</u> <u>66</u>	<u>68</u> <u>63</u>	<u>60</u> <u>68</u>	<u>66</u> <u>68</u>	<u>68</u> <u>67</u>	<u>67</u> <u>68</u>	<u>64</u> <u>68</u>	<u>64</u> <u>66</u>	<u>64</u> <u>63</u>	<u>60</u> <u>63</u>	<u>43</u> <u>58</u>	58
Maylands Cottages, RM3 0AZ	<u>61</u> <u>51</u>	<u>61</u> <u>74</u>	<u>75</u> <u>74</u>	<u>56</u> <u>54</u>	<u>56</u> <u>54</u>	<u>56</u> <u>54</u>	<u>57</u> <u>54</u>	<u>56</u> <u>54</u>	<u>56</u> <u>55</u>	<u>56</u> <u>54</u>	<u>56</u> <u>54</u>	<u>56</u> <u>54</u>	<u>56</u> <u>53</u>	<u>56</u> <u>53</u>	<u>56</u> <u>54</u>	<u>58</u> <u>54</u>	<u>58</u> <u>54</u>	<u>59</u> <u>53</u>	<u>58</u> <u>54</u>	<u>58</u> <u>56</u>	<u>58</u> <u>57</u>	58	<u>58</u> <u>56</u>	<u>57</u> <u>55</u>	<u>57</u> <u>54</u>					

Sensitive Receptor	Construction noise levels (L _{Aeq} ,dB)																														
	2022												2023												2024						
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
60 Brook Street, CM14 5ND	48	<u>48</u> <u>50</u>	<u>49</u> <u>54</u>	56	<u>57</u> <u>56</u>	<u>57</u> <u>56</u>	<u>57</u> <u>55</u>	<u>57</u> <u>55</u>	<u>58</u> <u>56</u>	<u>58</u> <u>55</u>	<u>57</u> <u>55</u>	<u>57</u> <u>58</u>	<u>57</u> <u>56</u>	57	57	<u>55</u> <u>58</u>	<u>55</u> <u>56</u>	56	57	<u>58</u> <u>55</u>	<u>54</u> <u>59</u>	<u>57</u> <u>60</u>	<u>59</u> <u>60</u>	<u>58</u> <u>60</u>	<u>59</u> <u>61</u>	<u>59</u> <u>61</u>	<u>57</u> <u>60</u>	<u>57</u> <u>58</u>	<u>54</u> <u>57</u>	<u>46</u> <u>53</u>	<u>48</u> <u>51</u>
13 Nag's Head Lane, CM14 5NJ	30	<u>30</u> <u>34</u>	<u>34</u> <u>39</u>	40	<u>41</u> <u>40</u>	<u>41</u> <u>40</u>	<u>42</u> <u>40</u>	<u>42</u> <u>40</u>	<u>44</u> <u>41</u>	<u>43</u> <u>41</u>	<u>43</u> <u>41</u>	<u>42</u> <u>43</u>	<u>42</u> <u>40</u>	<u>42</u> <u>41</u>	42	<u>41</u> <u>42</u>	<u>40</u> <u>41</u>	41	41	<u>42</u> <u>40</u>	<u>40</u> <u>44</u>	<u>42</u> <u>45</u>	44	<u>43</u> <u>44</u>	<u>43</u> <u>45</u>	<u>44</u> <u>45</u>	<u>42</u> <u>44</u>	<u>41</u> <u>42</u>	<u>39</u> <u>41</u>	<	

Table 6.5: Predicted highest daily night-time construction noise levels at selected location – With mitigation

Sensitive Receptor	Construction noise levels (L _{Aeq} ,dB)																														
	2022												2023												2024						
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Grove Farm, CM14 5NG	<u>0</u> 0	<u>0</u> 1 0	<u>1</u> 0 5 8	<u>5</u> 2 4 8	<u>4</u> 0 5 1	<u>4</u> 4 5 1	<u>4</u> 2 4 8	<u>4</u> 4 5 1	44 48	33 30	30 30	27 32	29 31	31 43	31 57	29 56	43 57	43 43	29 45	29 52	38 60	65 60	62 25	55 40	55 66	55 37	58 60	56 60	56 60	37 55	55 55
Maylands Cottages, RM3 0AZ	<u>0</u> 0	<u>0</u> 1 0	<u>1</u> 0 4 2	<u>4</u> 0 4 1	<u>4</u> 1 4 3	<u>4</u> 1 4 3	<u>4</u> 1 4 1	<u>4</u> 1 4 3	40 42	40 41	39 41	39 41	39 40	39 40	39 41	39 41	42 41	42 40	39 40	39 44	50 41	51 41	43 40	45 50	47 42	52 42	48 41	49 44	49 44	45 42	48 41
Caravan Park, RM3 0AW	<u>0</u> 0	<u>0</u> 1 0	<u>1</u> 0 5 1	<u>6</u> 1 4 8	<u>5</u> 6 5 1	<u>5</u> 5 5 1	<u>5</u>																								

Sensitive Receptor	Construction noise levels (L _{Aeq} ,dB)																														
	2022												2023												2024						
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
42, Woodstock Avenue, RM3 9NF	0	0	10	39	41	41	40	39	39	36	36	35	35	35	35	35	39	39	35	35	52	53	42	42	44	49	46	46	46	42	45
63 Brook Street, CM14 5NA	<u>0</u> <u>0</u>	<u>0</u> <u>1</u> <u>0</u>	<u>1</u> <u>0</u> <u>4</u> <u>7</u>	<u>4</u> <u>4</u> <u>3</u> <u>6</u>	<u>3</u> <u>9</u> <u>3</u> <u>8</u>	<u>3</u> <u>9</u> <u>3</u> <u>8</u>	<u>3</u> <u>7</u> <u>3</u> <u>7</u>	<u>3</u> <u>8</u> <u>3</u> <u>8</u>	<u>37</u> <u>37</u>	<u>34</u> <u>33</u>	<u>32</u> <u>33</u>	<u>30</u> <u>33</u>	<u>28</u> <u>30</u>	<u>30</u> <u>46</u>	<u>30</u> <u>53</u>	<u>29</u> <u>53</u>	<u>39</u> <u>52</u>	<u>39</u> <u>46</u>	<u>29</u> <u>48</u>	<u>29</u> <u>54</u>	<u>42</u> <u>51</u>	<u>54</u> <u>51</u>	<u>51</u> <u>28</u>	<u>52</u> <u>45</u>	<u>53</u> <u>53</u>	<u>56</u> <u>53</u>	<u>54</u> <u>51</u>	<u>56</u> <u>52</u>	<u>56</u> <u>56</u>	<u>49</u> <u>54</u>	<u>48</u> <u>50</u>
60 Brook Street, CM14 5ND	<u>0</u> <u>0</u>	<u>0</u> <u>1</u> <u>0</u>	<u>1</u> <u>0</u> <u>4</u> <u>9</u>	<u>6</u> <u>1</u>																											

Sensitive Receptor	Construction noise levels (L _{Aeq} ,dB)																													
	2022											2023											2024							
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Legend																														
	SOAEL exceedance													LOAEL exceedance																

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