



## M25 junction 28 improvement scheme

TR010029

### 10.10 Environmental Statement: Appendix 6.2 Construction noise and vibration Changes 1-4

Regulation 5(2)(q)

Planning Act 2008

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

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## Infrastructure Planning

### Planning Act 2008

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

### M25 junction 28 scheme Development Consent Order 202[x ]

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#### 10.10 ENVIRONMENTAL STATEMENT: APPENDIX 6.2 CONSTRUCTION NOISE AND VIBRATION CHANGES 1-4

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<b>Regulation Number:</b>	Regulation 5(2)(q)
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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 <sub>Aeq</sub> at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L <sub>Aeq</sub> 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

Construction Activity	Plant	Total L <sub>Aeq</sub> at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L <sub>Aeq</sub> corrected (dB)
Cadent and UKPN gas diversion works	Fuel tanker lorry	76	1	20	-10.0	66.0
	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
Traffic management	Water pump	68	2	100	0.0	71.0
	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

Construction Activity	Plant	Total L <sub>Aeq</sub> at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L <sub>Aeq</sub> corrected (dB)
	Poker vibrator	78	1	40	-4.0	74.0
	Concrete pump	80	1	20	-7.0	73.0
Road formation level	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 <u>Piled walls</u>	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

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

Construction Activity	Plant	Total L <sub>Aeq</sub> at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L <sub>Aeq</sub> corrected (dB)
Stringcourse	<u>Concrete Mixer Truck</u>	<u>80</u>	<u>1</u>	<u>40</u>	<u>-4.0</u>	<u>76.0</u>
	<u>Lorry with lifting boom</u>	<u>77</u>	<u>2</u>	<u>40</u>	<u>-4.0</u>	<u>76.0</u>
	<u>Diesel scissor lift</u>	<u>78</u>	<u>2</u>	<u>85</u>	<u>-0.7</u>	<u>80.3</u>
	<u>Air gun</u>	<u>83</u>	<u>2</u>	<u>10</u>	<u>-10.0</u>	<u>76.0</u>
	<u>compressor for air gun</u>	<u>65</u>	<u>2</u>	<u>10</u>	<u>-10.0</u>	<u>58.0</u>
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

Construction Activity	Plant	Total L <sub>Aeq</sub> at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L <sub>Aeq</sub> corrected (dB)
	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
	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

Construction Activity	Plant	Total L <sub>Aeq</sub> at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L <sub>Aeq</sub> corrected (dB)
	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
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

Construction Activity	Plant	Total L <sub>Aeq</sub> at 10m (dB)	Quantity	Percentage on-time (%)	Correction (dB)	L <sub>Aeq</sub> corrected (dB)
	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
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	Sep	Mar	Oct	Apr	Nov	May	Jun	Jul	Aug	Sep	Oct	Jan	Feb	Sep	Mar	Apr	Nov	Dec	Jan	Feb	Sep	Mar	Apr	Nov	Dec	Jan	Feb	Mar	Apr								
Grove Farm, CM14 5NG	67	67	57 72	78	78	78	72 73	72 74	73	74 74	73	74 75	73	74	74 73	69 72	76 72	74 70	78 76	78 73	70 78	76 78	78 77	77 78	74 78	74 76	74 73	70 73	53 68	68	6 8							
Maylands Cottages, RM3 0AZ	61	61 74	75 74	65 64	66 64	66 64	65 64	66 65	65 64	66 64	65 64	65 63	65 63	65 64	65 64	65 64	66 64	67 64	67 66	66 67	66 68	65 66	65 66	65 64	65 64	65 64	65 63	62 63	62 63	6 3								
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 74	72 70	73 69	72 70	72 71	69 73	69 72	70 71	70 72	71 70	70	70 73	68 71	67 71	64 71	63 66	62 64	63 64	6 3					
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 63	64 63	64 63	64 63	64 63	64 63	65 67	65 68	64 66	63 65	63 64	64	63 64	63 64	63 64	63 64	58 63	58 63	6 3								
<u>12, Craven Gardens, RM3 0DF</u>	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	57	57	52	51								
<u>Gardens of Peace Muslim Cemetery</u>	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	60	60	53	53								
<u>10, Woodstock</u>	48	48	58	55	56	56	56	55	57	56	56	56	55	56	56	56	56	57	57	57	56	55	55	56	55	55	54	50	49									



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**



6.2.4 Table 6.4 shows the predicted highest daily daytime ( $L_{Aeq}$ , dB) construction noise levels with the recommended mitigation as outlined in the chapter (Chapter 6) of ES (application document TR010029/APP/6.1) at selected representative sensitive receptors in the study area.

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

Sensitive Receptor	Construction noise levels (L <sub>Aeq</sub> ,dB)																																				
	2022-2024												2023												2024												
	Feb	Sep	Mar	Oct	Apr	Nov	May	Dec	Jun	Jan	Jul	Feb	Sep	Mar	Oct	Apr	Nov	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr								
	Feb	Sep	Mar	Oct	Apr	Nov	May	Dec	Jun	Jan	Jul	Feb	Sep	Mar	Oct	Apr	Nov	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr								
Grove Farm, CM14 5NG	67	67	57	62	68	68	68	62	63	63	64	64	63	63	64	64	63	59	62	66	64	66	68	66	68	67	67	64	64	60	43	58	58	5	8		
Maylands Cottages, RM3 0AZ	61	61	75	74	56	54	56	54	57	56	54	56	55	56	54	56	54	56	54	58	54	59	54	58	56	57	56	57	54	58	56	53	53	53	53	5	3
Caravan Park, RM3 0AW	64	64	56	70	70	70	67	72	71	75	74	73	72	73	72	71	71	72	70	73	70	73	72	70	71	70	70	70	68	67	64	63	62	63	6	3	
17 Colchester Road, RM3 0AW	61	63	71	74	64	65	65	66	66	65	66	64	66	66	64	66	63	64	64	69	64	73	63	66	65	67	64	63	64	63	63	58	63	58	63	6	3
12, Craven Gardens, RM3 0DF	51	51	61	58	59	59	59	58	60	59	59	59	58	58	58	58	58	59	61	59	59	59	59	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	62	61	62	63	64	64	63	63	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	56	56	57	57	57	56	57	56	55	55	56	55	55	54	50	49				
42, Woodstock Avenue, RM3 9NF	49	49	58	56	57	57	56	57	57	57	57	56	56	56	56	56	56	56	56	57	58	58	57	58	56	56	56	56	55	55	50	49					
63 Brook Street, CM14 5NA	46	46	49	55	55	55	55	56	56	57	57	54	54	57	54	56	57	56	57	56	58	58	57	56	58	56	57	55	55	44	49	5	3				

6.2.5 Table 6.5 shows the predicted highest daily daytime ( $L_{Aeq}$ , dB) construction noise levels with the recommended mitigation as outlined in the Noise and Vibration chapter in Volume 1 at selected representative sensitive receptors in the study area.

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

Sensitive Receptor	Construction noise levels (L <sub>Aeq</sub> ,dB)																								
	2022								2023								2024								
	Feb	Sep	Mar	Oct	Apr	Nov	May	Jun	Feb	Sep	Mar	Oct	Apr	Nov	May	Jun	Feb	Sep	Mar	Oct	Apr	Nov	May	Jun	
	Feb	Sep	Mar	Oct	Apr	Nov	May	Jun	Feb	Sep	Mar	Oct	Apr	Nov	May	Jun	Feb	Sep	Mar	Oct	Apr	Nov	May	Jun	
Grove Farm, CM14 5NG	59	54	10	58	52	48	51	44	42	48	44	51	44	48	33	30	30	27	29	31	31	29	43	43	38
Maylands Cottages, RM3 0AZ	59	54	10	42	40	41	43	41	41	43	40	42	40	42	39	41	41	39	40	41	41	42	40	41	44
Caravan Park, RM3 0AW	59	54	10	51	61	48	56	54	55	53	48	57	51	59	55	58	58	49	51	53	51	48	56	60	61
17 Colchester Road, RM3 0AW	59	54	10	54	47	53	56	55	53	54	53	54	45	51	45	54	45	50	45	54	51	59	50	51	54
<u>12, Craven Gardens, RM3 0DF</u>	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
<u>Gardens of Peace Muslim Cemetery</u>	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
<u>10, Woodstock Avenue, RM3 9NF</u>	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
<u>42, Woodstock Avenue, RM3 9NF</u>	0	0	10	39	41	41	40	39	39	39	36	36	35	35	35	35	39	39	35	35	52	53	42	42	44

## Legend

## SOAEL exceedance

### LOAEL exceedance

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