

Appendix 4.10b Construction Noise Assessment with Implementation of Further Noise Mitigation Measures for KTV5

NAP: KTV5

Period	Construction Activities	Work Zone	Location	Reduction of number of PME	Mitigated SWL, dB(A)	Distance from Notional Source Position, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
Nov 2031 - Dec 2031	Foundation of Noise Barrier	2	Outside 40m Buffer Zone	N/A	106	40	-40.0	0	3	69.0
	Pile Cap and Formation of new road ^(a)	2	Within 40m Buffer Zone		107	29	-37.2	0	3	72.8

Maximum noise contribution from construction activities in Zone 3 during this period: 47
Overall Predicted Noise Level, dB(A) 74
Daytime Noise Criteria, dB(A) 75
Compliance Yes

Period	Construction Activities	Work Zone	Location	Reduction of number of PME	Mitigated SWL, dB(A)	Distance from Notional Source Position, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
Jan 2032	Foundation of Noise Barrier	2	Outside 40m Buffer Zone	N/A	106	40	-40.0	0	3	69.0
	Pile Cap and Formation of new road ^(a)	2	Within 40m Buffer Zone		107	29	-37.2	0	3	72.8
	Utilities Diversion	2	Outside 40m Buffer Zone		104	40	-40.0	0	3	67.0

Overall Predicted Noise Level, dB(A) 75
Daytime Noise Criteria, dB(A) 75
Compliance Yes

Period	Construction Activities	Work Zone	Location	Reduction of number of PME	Mitigated SWL, dB(A)	Distance from Notional Source Position, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
Feb 2032	Foundation of Noise Barrier	2	Outside 40m Buffer Zone	N/A	106	40	-40.0	0	3	69.0
	Pile Cap and Formation of new road ^(a)	2	Within 40m Buffer Zone		107	29	-37.2	0	3	72.8
	Utilities Diversion	2	Outside 40m Buffer Zone		104	40	-40.0	0	3	67.0
	Erection of structural steel post for noise barrier	2	Outside 40m Buffer Zone		100	40	-40.0	0	3	63.0

Overall Predicted Noise Level, dB(A) 75
Daytime Noise Criteria, dB(A) 75
Compliance Yes

Period	Construction Activities	Work Zone	Location	Reduction of number of PME	Mitigated SWL, dB(A)	Distance from Notional Source Position, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
Feb 2033	Road Drainage	2	Outside 40m Buffer Zone	N/A	106	40	-40.0	0	3	69.0
	Road Surfacing ^(a)	2	Within 40m Buffer Zone	No. of Compactor, vibratory reduce from 6 to 4	107	29	-37.2	0	3	72.8

Overall Predicted Noise Level, dB(A) 74
Daytime Noise Criteria, dB(A) 75
Compliance Yes

Period	Construction Activities	Work Zone	Location	Reduction of number of PME	Mitigated SWL, dB(A)	Distance from Notional Source Position, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
Mar 2033	Road Drainage	2	Outside 40m Buffer Zone	N/A	106	40	-40.0	0	3	69.0
	Road Surfacing ^(a)	2	Within 40m Buffer Zone	No. of Compactor, vibratory reduce from 6 to 4	107	29	-37.2	0	3	72.8
	Roadlighting and E&M works	2	Outside 40m Buffer Zone	N/A	96	40	-40.0	0	3	59.0

Overall Predicted Noise Level, dB(A) 74
Daytime Noise Criteria, dB(A) 75
Compliance Yes

Period	Construction Activities	Work Zone	Location	Reduction of number of PME	Mitigated SWL, dB(A)	Distance from Notional Source Position, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
Jul 2033	Road Drainage	2	Outside 40m Buffer Zone	N/A	106	40	-40.0	0	3	69.0
	Road Surfacing ^(a)	2	Within 40m Buffer Zone	No. of Compactor, vibratory reduce from 6 to 4	107	29	-37.2	0	3	72.8

Overall Predicted Noise Level, dB(A) 74
Daytime Noise Criteria, dB(A) 75
Compliance Yes

Period	Construction Activities	Work Zone	Location	Reduction of number of PME	Mitigated SWL, dB(A)	Distance from Notional Source Position, m	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
Aug 2033	Road Drainage	2	Outside 40m Buffer Zone	N/A	106	40	-40.0	0	3	69.0
	Road Surfacing ^(a)	2	Within 40m Buffer Zone	No. of Compactor, vibratory reduce from 6 to 4	107	29	-37.2	0	3	72.8
	Roadlighting and E&M works	2	Outside 40m Buffer Zone	N/A	96	40	-40.0	0	3	59.0

Overall Predicted Noise Level, dB(A) 74
Daytime Noise Criteria, dB(A) 75
Compliance Yes

Note:

(a) The construction activity with the highest SWL.

(b) Only one construction activity would be located in the buffer zone. The activity with the highest SWL located in the buffer zone represents the worst case scenario.