

Appendix 4.16
Predicted Road Traffic Noise Levels
at Representative Noise Sensitive Receivers
in Year 2031 (Mitigated Scenario – With All
Proposed Direct Noise Mitigation
Measures)

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(Mitigated Scenario - With All Proposed Direct Noise Mitigation Measures)

NSR ID	Level	mPD	Predicted Noise Level, L10(1-hr) dB(A)		
			New Road	Existing Road	Overall
N1	1	9.2	53.9	58.1	59.5
N2	1	25.2	—	66.4	66.4
	5	36.4	—	73.2	73.2
	10	50.4	—	74.8	74.8
	15	64.4	—	74.4	74.4
	20	78.4	—	73.8	73.8
	25	92.4	—	73.3	73.3
	30	106.4	—	72.9	72.9
	35	120.4	—	72.5	72.5
	40	134.4	—	72.2	72.2
N3	1	8.9	—	87.1	87.1
	5	20.1	—	85.5	85.5
	10	34.1	—	83.8	83.8
	12	39.7	—	83.3	83.3
N4	1	8.9	—	84.5	84.5
	5	20.1	—	83.7	83.7
	10	34.1	—	82.9	82.9
	15	48.1	—	82.1	82.1
	18	56.5	—	81.6	81.6
N5	1	8.9	—	83.4	83.4
	5	20.1	—	83.6	83.6
	10	34.1	—	82.8	82.8
	15	48.1	—	82.1	82.1
	20	62.1	—	81.5	81.5
	22	67.7	—	81.2	81.2
N6	1	8.9	—	85.2	85.2
	5	20.1	—	83.8	83.8
	10	34.1	—	82.6	82.6
	15	48.1	—	81.8	81.8
	20	62.1	—	81.1	81.1
	21	64.9	—	81.0	81.0
N7	1	9.5	—	83.3	83.3
	5	20.7	—	81.6	81.6
	10	34.7	—	80.3	80.3
	15	48.7	—	79.4	79.4
N8	1	9.5	—	81.2	81.2
	5	20.7	—	79.7	79.7
	10	34.7	—	78.5	78.5
	15	48.7	—	77.8	77.8
N9	1	9.2	55.2	81.0	81.0
	5	20.4	55.2	78.3	78.3
	10	34.4	55.1	76.3	76.3
	15	48.4	54.9	75.0	75.1
	20	62.4	54.8	74.2	74.2
	25	76.4	54.6	73.5	73.6
N10	1	9.2	54.8	79.1	79.2
	5	20.4	54.5	77.3	77.3
	10	34.4	53.4	75.7	75.7
	15	48.4	52.4	74.6	74.6
	18	56.8	52.0	74.1	74.1

NSR ID	Level	mPD	Predicted Noise Level, L10(1-hr) dB(A)		
			New Road	Existing Road	Overall
N11	1	9.2	54.4	78.7	78.7
	5	20.4	54.2	76.8	76.8
	10	34.4	53.6	75.6	75.7
	15	48.4	52.9	74.6	74.7
	20	62.4	52.1	73.9	73.9
	24	73.6	51.5	73.4	73.4
N12	1	9.2	55.2	80.4	80.4
	5	20.4	55.2	78.2	78.2
	10	34.4	55.0	76.5	76.6
	15	48.4	54.7	75.4	75.4
N13	1	8.8	—	77.5	77.5
	5	20.0	42.7	75.8	75.8
	10	34.0	54.2	74.6	74.6
	15	48.0	55.5	73.6	73.7
	20	62.0	55.4	73.1	73.1
	24	73.2	55.3	72.7	72.8
N14	1	9.2	—	70.8	70.8
	5	20.4	—	68.4	68.4
	10	34.4	—	67.2	67.2
	15	48.4	—	66.8	66.8
	20	62.4	—	66.4	66.4
	25	76.4	—	66.1	66.1
	30	90.4	45.8	65.8	65.8
N15	1	8.2	48.1	67.5	67.5
	2	11.0	49.9	69.4	69.4
	3	13.7	51.2	71.5	71.6
	4	16.5	53.0	73.5	73.5
N16	1	9.2	54.0	62.0	62.6
	5	20.4	51.7	68.2	68.3
	10	34.4	56.3	70.8	70.9
	15	48.4	61.6	70.7	71.2
	20	62.4	62.5	70.3	70.9
	25	76.4	62.5	69.8	70.5
	30	90.4	62.6	69.3	70.2
N17	1	9.5	48.9	46.2	50.7
	5	20.7	49.3	48.7	52.0
	10	34.7	51.2	56.4	57.5
	15	48.7	53.9	61.4	62.1
	20	62.7	56.8	63.4	64.2
	25	76.7	58.0	63.3	64.4
	30	90.7	58.6	63.1	64.4
	35	104.7	59.1	62.9	64.4
	40	118.7	59.5	63.0	64.6
	44	129.9	59.7	63.2	64.8
N17-A	1	9.5	50.4	—	50.5
	5	20.7	51.6	—	51.6
	10	34.7	53.0	—	53.1
	15	48.7	54.5	—	54.6
	20	62.7	56.0	—	56.1
	25	76.7	57.5	—	57.6
	30	90.7	59.1	—	59.2
	35	104.7	60.5	—	60.6
	40	118.7	61.5	—	61.6
	44	129.9	62.2	44.6	62.2

NSR ID	Level	mPD	Predicted Noise Level, L10(1-hr) dB(A)		
			New Road	Existing Road	Overall
N18	1	13.7	53.7	45.2	54.3
	5	24.3	55.1	47.2	55.8
	10	37.6	57.0	51.2	58.0
	15	50.8	58.9	55.0	60.4
	20	64.1	60.9	56.3	62.2
	25	77.3	63.0	56.8	64.0
	27	82.6	63.7	56.9	64.5
N18-A	1	13.7	54.5	45.2	55.0
	5	24.7	55.9	46.7	56.4
	10	37.6	57.7	49.6	58.4
	15	52.2	59.7	52.9	60.5
	20	64.1	61.7	54.2	62.4
	25	79.7	64.1	54.4	64.6
	27	85.2	64.5	54.4	64.9
N18-B	1	13.7	52.8	—	52.8
	5	24.3	54.1	—	54.1
	10	37.6	55.9	—	55.9
	15	50.8	57.6	—	57.6
	20	64.1	59.5	—	59.5
	25	77.3	61.7	—	61.7
	27	82.6	62.3	—	62.3
N19	1	13.8	51.8	—	52.7
	5	24.4	53.6	49.0	54.9
	10	37.6	56.1	55.9	59.0
	15	50.9	58.8	58.6	61.7
	20	64.1	61.7	59.4	63.7
	25	77.4	63.5	59.4	64.9
	27	82.7	63.9	59.4	65.2
19-A	1	13.8	51.4	—	51.4
	5	24.4	53.1	—	53.1
	10	37.6	55.3	—	55.3
	15	50.9	57.7	—	57.7
	20	64.1	60.2	—	60.2
	25	77.4	62.3	—	62.3
	27	82.7	62.9	—	62.9
N20	1	5.2	—	63.0	63.0
	2	8.2	40.2	64.0	64.0
	3	11.2	41.4	65.2	65.2
	4	14.2	41.9	66.6	66.6
	5	17.2	42.3	68.2	68.2
	6	20.2	42.8	69.3	69.4
	7	23.2	43.2	70.5	70.5
	8	26.2	43.7	71.4	71.4
N21	1	8.2	—	68.8	68.8
	5	19.4	—	73.9	73.9
	10	33.4	—	77.4	77.4
	15	47.4	—	77.5	77.5
	20	61.4	40.7	77.0	77.0
	25	75.4	42.5	76.5	76.5

NSR ID	Level	mPD	Predicted Noise Level, L10(1-hr) dB(A)		
			New Road	Existing Road	Overall
N22	1	8.2	—	70.0	70.0
	5	19.4	—	76.3	76.3
	10	33.4	—	79.0	79.0
	15	47.4	40.1	78.6	78.6
	20	61.4	41.5	78.0	78.0
	25	75.4	42.9	77.4	77.4
N23	1	9.2	—	68.8	68.8
	5	20.4	—	75.0	75.0
	10	34.4	—	76.3	76.3
	15	48.4	—	75.8	75.8
	20	62.4	—	75.2	75.2
	25	76.4	—	74.5	74.5
P1- A	1	4.8	56.4	68.1	68.4
P1- B	1	4.8	56.5	68.3	68.6
P1- C	1	4.8	40.2	62.1	62.1
P2	1	8.2	52.3	46.6	53.3
	5	20.2	53.4	49.9	55.0
	10	35.2	55.0	53.9	57.5
	15	50.2	56.8	56.2	59.5
	20	65.2	58.7	56.9	60.9
	25	80.2	60.6	57.1	62.2
	30	95.2	62.4	57.2	63.5
	35	110.2	63.7	57.1	64.6
	40	125.2	64.5	57.0	65.2
	45	140.2	64.9	56.8	65.5
	50	155.2	65.0	56.6	65.6
	53	164.2	65.1	—	65.6
	P3	1	8.7	51.8	—
5		19.7	52.7	38.0	52.8
10		33.5	53.8	40.6	54.0
15		47.2	54.9	44.0	55.3
20		61.0	56.1	46.6	56.6
25		74.7	57.3	48.1	57.8
30		88.5	58.6	49.7	59.1
34		99.5	59.6	51.0	60.2

Note:

-- Noise level below 40 dB(A) would be considered negligible and hence not shown in the table.