

Appendix 4.5

Detailed Calculations of Traffic Noise Levels

Appendix 4.5 - Detailed Calculation of Traffic Noise Levels (DP Roads)

Assessment Point			Noise Criteria, dB(A)	Prevailing Traffic Noise (Year 2013), dB(A)	Exceedance (Y/N)	Without Project (Year 2030)		With Project (Year 2030)							
ID	mPD	Floor				Overall Noise Level, dB(A)	Exceedance (Y/N)	Other Roads (Planned + Existing), dB(A)	Project Roads, dB(A)	Overall Noise Level, dB(A)	Exceedance (Y/N)	Contribution of Project Roads, dB(A)	Significant Contribution (>1.0)	Project Roads > Criteria (Y/N)	Mitigation Required (Y/N)
FR-1	32.5	1	70	71.3	Y	74.3	Y	74.3	41.6	74.3	Y	0.0	N	N	N
FR-2	35.5	2	70	72.3	Y	75.0	Y	75.0	42.7	75.0	Y	0.0	N	N	N
FR-3	38.5	3	70	72.6	Y	75.2	Y	75.2	43.6	75.2	Y	0.0	N	N	N
FR-4	41.5	4	70	72.7	Y	75.3	Y	75.3	44.7	75.3	Y	0.0	N	N	N
FR-5	44.5	5	70	72.8	Y	75.4	Y	75.4	45.9	75.4	Y	0.0	N	N	N
FR-6	47.5	6	70	72.9	Y	75.5	Y	75.5	46.8	75.5	Y	0.0	N	N	N
FR-7	50.5	7	70	73.0	Y	75.7	Y	75.7	47.3	75.7	Y	0.0	N	N	N
FR-8	53.5	8	70	73.2	Y	75.8	Y	75.8	47.5	75.8	Y	0.0	N	N	N
FR-9	56.5	9	70	73.3	Y	75.9	Y	75.9	47.6	75.9	Y	0.0	N	N	N
FR-10	59.5	10	70	73.3	Y	76.0	Y	76.0	47.7	76.0	Y	0.0	N	N	N
FR-11	62.5	11	70	73.3	Y	76.0	Y	76.0	47.8	76.0	Y	0.0	N	N	N
FR-12	65.5	12	70	73.3	Y	75.9	Y	75.9	47.8	75.9	Y	0.0	N	N	N
FR-13	68.5	13	70	73.3	Y	75.9	Y	75.9	47.8	75.9	Y	0.0	N	N	N
FR-14	71.5	14	70	73.2	Y	75.9	Y	75.9	47.9	75.9	Y	0.0	N	N	N
FR-15	74.5	15	70	73.2	Y	75.8	Y	75.8	47.9	75.8	Y	0.0	N	N	N
FR-16	77.5	16	70	73.1	Y	75.8	Y	75.8	48.0	75.8	Y	0.0	N	N	N
FR-17	80.5	17	70	73.1	Y	75.7	Y	75.7	48.0	75.7	Y	0.0	N	N	N
FR-18	83.5	18	70	73.1	Y	75.7	Y	75.7	48.0	75.7	Y	0.0	N	N	N
FR-19	86.5	19	70	73.0	Y	75.7	Y	75.7	48.1	75.7	Y	0.0	N	N	N
FR-20	89.5	20	70	73.1	Y	75.7	Y	75.7	48.1	75.7	Y	0.0	N	N	N
FR-21	92.5	21	70	73.1	Y	75.8	Y	75.8	48.1	75.8	Y	0.0	N	N	N
FR-22	95.5	22	70	73.2	Y	75.9	Y	75.9	48.1	75.9	Y	0.0	N	N	N
FR-23	98.5	23	70	73.3	Y	76.0	Y	76.0	48.1	76.0	Y	0.0	N	N	N
FR-24	101.5	24	70	73.4	Y	76.1	Y	76.1	48.1	76.1	Y	0.0	N	N	N
FR-25	104.5	25	70	73.6	Y	76.3	Y	76.3	48.1	76.3	Y	0.0	N	N	N
FR-26	107.5	26	70	73.7	Y	76.5	Y	76.4	48.1	76.5	Y	0.1	N	N	N
FR-27	110.5	27	70	73.9	Y	76.6	Y	76.6	48.1	76.6	Y	0.0	N	N	N
FR-28	113.5	28	70	74.0	Y	76.8	Y	76.7	48.1	76.7	Y	0.0	N	N	N
FR-29	116.5	29	70	74.0	Y	76.8	Y	76.8	48.1	76.8	Y	0.0	N	N	N
FR-30	119.5	30	70	74.0	Y	76.8	Y	76.8	48.1	76.8	Y	0.0	N	N	N
FR-31	122.5	31	70	74.0	Y	76.8	Y	76.8	48.1	76.8	Y	0.0	N	N	N
FR-32	125.5	32	70	74.0	Y	76.8	Y	76.8	48.1	76.8	Y	0.0	N	N	N
FR-33	128.5	33	70	74.0	Y	76.8	Y	76.8	48.1	76.8	Y	0.0	N	N	N
FR-34	131.5	34	70	74.0	Y	76.8	Y	76.8	48.1	76.8	Y	0.0	N	N	N
FR-35	134.5	35	70	74.0	Y	76.8	Y	76.8	48.1	76.8	Y	0.0	N	N	N
FR-36	137.5	36	70	74.0	Y	76.8	Y	76.8	48.0	76.8	Y	0.0	N	N	N
FR-37	140.5	37	70	73.9	Y	76.8	Y	76.8	48.0	76.8	Y	0.0	N	N	N
FR-38	143.5	38	70	73.9	Y	76.7	Y	76.7	48.0	76.7	Y	0.0	N	N	N
IHV-1	16.9	1	70	74.4	Y	76.5	Y	76.4	48.2	76.4	Y	0.0	N	N	N
IHV-2	19.9	2	70	74.1	Y	76.1	Y	76.1	48.3	76.1	Y	0.0	N	N	N
IHV-3	22.9	3	70	74.0	Y	76.0	Y	76.0	48.7	76.0	Y	0.0	N	N	N
IHV-4	25.9	4	70	73.9	Y	76.0	Y	76.0	49.3	76.0	Y	0.0	N	N	N
IHV-5	28.9	5	70	73.9	Y	76.0	Y	76.0	49.5	76.0	Y	0.0	N	N	N
IHV-6	31.9	6	70	73.8	Y	76.0	Y	76.0	49.5	76.0	Y	0.0	N	N	N
IHV-7	34.9	7	70	73.8	Y	76.0	Y	76.0	49.5	76.0	Y	0.0	N	N	N
IHV-8	37.9	8	70	74.0	Y	76.2	Y	76.2	49.5	76.2	Y	0.0	N	N	N
IHV-9	40.9	9	70	74.1	Y	76.3	Y	76.3	49.5	76.3	Y	0.0	N	N	N
IHV-10	43.9	10	70	74.2	Y	76.5	Y	76.5	49.5	76.5	Y	0.0	N	N	N
IHV-11	46.9	11	70	74.3	Y	76.6	Y	76.6	49.5	76.6	Y	0.0	N	N	N
IHV-12	49.9	12	70	74.3	Y	76.7	Y	76.7	49.5	76.7	Y	0.0	N	N	N
IHV-13	52.9	13	70	74.3	Y	76.7	Y	76.7	49.5	76.7	Y	0.0	N	N	N
IHV-14	55.9	14	70	74.3	Y	76.7	Y	76.7	49.4	76.7	Y	0.0	N	N	N
IHV-15	58.9	15	70	74.3	Y	76.6	Y	76.6	49.4	76.7	Y	0.1	N	N	N
IHV-16	61.9	16	70	74.2	Y	76.6	Y	76.6	49.4	76.6	Y	0.0	N	N	N
IHV-17	64.9	17	70	74.2	Y	76.6	Y	76.6	49.4	76.6	Y	0.0	N	N	N
IHV-18	67.9	18	70	74.2	Y	76.6	Y	76.6	49.4	76.6	Y	0.0	N	N	N

Assessment Point			Noise Criteria, dB(A)	Prevailing Traffic Noise (Year 2013), dB(A)	Exceedance (Y/N)	Without Project (Year 2030)		With Project (Year 2030)							
ID	mPD	Floor				Overall Noise Level, dB(A)	Exceedance (Y/N)	Other Roads (Planned + Existing), dB(A)	Project Roads, dB(A)	Overall Noise Level, dB(A)	Exceedance (Y/N)	Contribution of Project Roads, dB(A)	Significant Contribution (>1.0)	Project Roads > Criteria (Y/N)	Mitigation Required (Y/N)
IHV-19	70.9	19	70	74.2	Y	76.6	Y	76.6	49.3	76.6	Y	0.0	N	N	N
IHV-20	73.9	20	70	74.2	Y	76.6	Y	76.6	49.3	76.6	Y	0.0	N	N	N
IHV-21	76.9	21	70	74.2	Y	76.6	Y	76.6	49.3	76.6	Y	0.0	N	N	N
IHV-22	79.9	22	70	74.1	Y	76.6	Y	76.6	49.3	76.6	Y	0.0	N	N	N
IHV-23	82.9	23	70	74.1	Y	76.5	Y	76.5	49.3	76.5	Y	0.0	N	N	N
IHV-24	85.9	24	70	74.1	Y	76.5	Y	76.5	49.2	76.5	Y	0.0	N	N	N
IHV-25	88.9	25	70	74.1	Y	76.5	Y	76.5	49.2	76.5	Y	0.0	N	N	N
IHV-26	91.9	26	70	74.1	Y	76.5	Y	76.5	49.2	76.5	Y	0.0	N	N	N
IHV-27	94.9	27	70	74.1	Y	76.5	Y	76.5	49.2	76.5	Y	0.0	N	N	N
IHV-28	97.9	28	70	74.1	Y	76.6	Y	76.6	49.1	76.6	Y	0.0	N	N	N
IHV-29	100.9	29	70	74.2	Y	76.6	Y	76.6	49.1	76.6	Y	0.0	N	N	N
IHV-30	103.9	30	70	74.3	Y	76.7	Y	76.7	49.1	76.7	Y	0.0	N	N	N
IHV-31	106.9	31	70	74.3	Y	76.8	Y	76.8	49.1	76.8	Y	0.0	N	N	N
IHV-32	109.9	32	70	74.4	Y	76.8	Y	76.8	49.1	76.8	Y	0.0	N	N	N
IHV-33	112.9	33	70	74.4	Y	76.9	Y	76.9	49.0	76.9	Y	0.0	N	N	N
IHV-34	115.9	34	70	74.4	Y	76.9	Y	76.9	49.0	76.9	Y	0.0	N	N	N
IHV-35	118.9	35	70	74.4	Y	76.9	Y	76.9	49.0	76.9	Y	0.0	N	N	N
IHV-36	121.9	36	70	74.4	Y	76.9	Y	76.9	49.0	76.9	Y	0.0	N	N	N
IHV-37	124.9	37	70	74.4	Y	76.9	Y	76.9	49.0	76.9	Y	0.0	N	N	N
PAV-1	31.1	1	70	65.1	N	67.8	N	67.8	43.8	67.8	N	0.0	N	N	N
PAV-2	34.1	2	70	67.7	N	70.5	Y	70.5	46.6	70.5	Y	0.0	N	N	N
PAV-3	37.1	3	70	70.0	N	72.7	Y	72.7	49.3	72.7	Y	0.0	N	N	N
PAV-4	40.1	4	70	72.0	Y	74.8	Y	74.8	50.8	74.8	Y	0.0	N	N	N
PAV-5	43.1	5	70	73.4	Y	76.1	Y	76.1	51.2	76.1	Y	0.0	N	N	N
PAV-6	46.1	6	70	74.3	Y	77.0	Y	77.0	51.3	77.0	Y	0.0	N	N	N
PAV-7	49.1	7	70	74.6	Y	77.3	Y	77.3	51.4	77.4	Y	0.1	N	N	N
PAV-8	52.1	8	70	74.7	Y	77.5	Y	77.5	51.5	77.5	Y	0.0	N	N	N
PAV-9	55.1	9	70	74.8	Y	77.6	Y	77.6	51.5	77.6	Y	0.0	N	N	N
PAV-10	58.1	10	70	74.9	Y	77.7	Y	77.6	51.5	77.7	Y	0.1	N	N	N
PAV-11	61.1	11	70	74.9	Y	77.7	Y	77.7	51.5	77.7	Y	0.0	N	N	N
PAV-12	64.1	12	70	74.9	Y	77.7	Y	77.7	51.5	77.7	Y	0.0	N	N	N
PAV-13	67.1	13	70	74.9	Y	77.8	Y	77.8	51.6	77.8	Y	0.0	N	N	N
PAV-14	70.1	14	70	75.0	Y	77.8	Y	77.8	51.6	77.8	Y	0.0	N	N	N
PAV-15	73.1	15	70	75.0	Y	77.8	Y	77.8	51.6	77.8	Y	0.0	N	N	N
PAV-16	76.1	16	70	75.0	Y	77.9	Y	77.9	51.6	77.9	Y	0.0	N	N	N
PAV-17	79.1	17	70	75.0	Y	77.9	Y	77.9	51.6	77.9	Y	0.0	N	N	N
PAV-18	82.1	18	70	75.1	Y	78.0	Y	78.0	51.6	78.0	Y	0.0	N	N	N
PAV-19	85.1	19	70	75.1	Y	78.0	Y	78.0	51.7	78.0	Y	0.0	N	N	N
PAV-20	88.1	20	70	75.1	Y	78.0	Y	78.0	51.7	78.1	Y	0.1	N	N	N
PAV-21	91.1	21	70	75.1	Y	78.1	Y	78.1	51.7	78.1	Y	0.0	N	N	N
PAV-22	94.1	22	70	75.2	Y	78.1	Y	78.1	51.7	78.1	Y	0.0	N	N	N
PAV-23	97.1	23	70	75.2	Y	78.1	Y	78.1	51.7	78.2	Y	0.1	N	N	N
PAV-24	100.1	24	70	75.2	Y	78.2	Y	78.2	51.6	78.2	Y	0.0	N	N	N
PAV-25	103.1	25	70	75.2	Y	78.2	Y	78.2	51.6	78.2	Y	0.0	N	N	N
PAV-26	106.1	26	70	75.2	Y	78.2	Y	78.2	51.6	78.2	Y	0.0	N	N	N
PAV-27	109.1	27	70	75.2	Y	78.2	Y	78.2	51.6	78.2	Y	0.0	N	N	N
PAV-28	112.1	28	70	75.2	Y	78.2	Y	78.2	51.6	78.2	Y	0.0	N	N	N
PAV-29	115.1	29	70	75.1	Y	78.2	Y	78.2	51.6	78.2	Y	0.0	N	N	N
PAV-30	118.1	30	70	75.1	Y	78.2	Y	78.2	51.6	78.2	Y	0.0	N	N	N
PAV-31	121.1	31	70	75.1	Y	78.2	Y	78.2	51.5	78.2	Y	0.0	N	N	N
PAV-32	124.1	32	70	75.1	Y	78.2	Y	78.2	51.5	78.2	Y	0.0	N	N	N
PAV-33	127.1	33	70	75.1	Y	78.2	Y	78.2	51.5	78.2	Y	0.0	N	N	N
PAV-34	130.1	34	70	75.0	Y	78.2	Y	78.2	51.4	78.2	Y	0.0	N	N	N
PAV-35	133.1	35	70	75.0	Y	78.1	Y	78.1	51.4	78.1	Y	0.0	N	N	N
PAV-36	136.1	36	70	75.0	Y	78.1	Y	78.1	51.4	78.1	Y	0.0	N	N	N
PAV-37	139.1	37	70	75.0	Y	78.1	Y	78.1	51.4	78.1	Y	0.0	N	N	N
PAV-38	142.1	38	70	74.9	Y	78.1	Y	78.1	51.3	78.1	Y	0.0	N	N	N
PAV-39	145.1	39	70	74.9	Y	78.0	Y	78.0	51.3	78.0	Y	0.0	N	N	N
PAV-40	148.1	40	70	74.9	Y	78.0	Y	78.0	51.3	78.0	Y	0.0	N	N	N

Assessment Point			Noise Criteria, dB(A)	Prevailing Traffic Noise (Year 2013), dB(A)	Exceedance (Y/N)	Without Project (Year 2030)		With Project (Year 2030)							
						Overall Noise Level, dB(A)	Exceedance (Y/N)	Other Roads (Planned + Existing), dB(A)	Project Roads, dB(A)	Overall Noise Level, dB(A)	Exceedance (Y/N)	Contribution of Project Roads, dB(A)	Significant Contribution (>1.0)	Project Roads > Criteria (Y/N)	Mitigation Required (Y/N)
ID	mPD	Floor													
PAV-41	151.1	41	70	74.8	Y	78.0	Y	78.0	51.3	78.0	Y	0.0	N	N	N
PAV-42	154.1	42	70	74.8	Y	77.9	Y	77.9	51.2	77.9	Y	0.0	N	N	N
CG-1	10.9	1	70	76.0	Y	77.8	Y	77.8	55.1	77.8	Y	0.0	N	N	N
CG-2	13.9	2	70	75.8	Y	77.7	Y	77.7	55.1	77.7	Y	0.0	N	N	N
CG-3	16.9	3	70	75.6	Y	77.6	Y	77.5	55.1	77.6	Y	0.1	N	N	N
CG-4	19.9	4	70	75.4	Y	77.5	Y	77.5	55.1	77.5	Y	0.0	N	N	N
CG-5	22.9	5	70	75.2	Y	77.4	Y	77.4	55.1	77.4	Y	0.0	N	N	N
CG-6	25.9	6	70	75.1	Y	77.4	Y	77.4	55.2	77.4	Y	0.0	N	N	N
CG-7	28.9	7	70	75.0	Y	77.4	Y	77.3	55.2	77.4	Y	0.1	N	N	N
CG-8	31.9	8	70	75.0	Y	77.4	Y	77.4	55.3	77.4	Y	0.0	N	N	N
CG-9	34.9	9	70	75.0	Y	77.5	Y	77.5	55.3	77.5	Y	0.0	N	N	N
CG-10	37.9	10	70	75.1	Y	77.6	Y	77.6	55.5	77.6	Y	0.0	N	N	N
CG-11	40.9	11	70	75.2	Y	77.8	Y	77.8	55.6	77.8	Y	0.0	N	N	N
CG-12	43.9	12	70	75.3	Y	78.0	Y	78.0	55.6	78.0	Y	0.0	N	N	N
CG-13	46.9	13	70	75.5	Y	78.2	Y	78.2	55.6	78.2	Y	0.0	N	N	N
CG-14	49.9	14	70	75.6	Y	78.4	Y	78.3	55.6	78.4	Y	0.1	N	N	N
CG-15	52.9	15	70	75.7	Y	78.4	Y	78.4	55.6	78.5	Y	0.1	N	N	N
CG-16	55.9	16	70	75.7	Y	78.5	Y	78.5	55.6	78.5	Y	0.0	N	N	N
CG-17	58.9	17	70	75.7	Y	78.5	Y	78.5	55.5	78.5	Y	0.0	N	N	N
CG-18	61.9	18	70	75.7	Y	78.5	Y	78.5	55.5	78.5	Y	0.0	N	N	N
CG-19	64.9	19	70	75.7	Y	78.5	Y	78.5	55.5	78.5	Y	0.0	N	N	N
CG-20	67.9	20	70	75.7	Y	78.5	Y	78.5	55.5	78.5	Y	0.0	N	N	N
CG-21	70.9	21	70	75.6	Y	78.5	Y	78.5	55.4	78.5	Y	0.0	N	N	N
CG-22	73.9	22	70	75.6	Y	78.5	Y	78.5	55.4	78.5	Y	0.0	N	N	N
LKPC-1	11	1	65	73.9	Y	76.7	Y	76.6	55.4	76.7	Y	0.1	N	N	N
LKPC-2	14	2	65	73.9	Y	76.7	Y	76.7	55.4	76.7	Y	0.0	N	N	N
LKPC-3	17	3	65	73.9	Y	76.7	Y	76.7	55.4	76.7	Y	0.0	N	N	N
LKPC-4	20	4	65	73.9	Y	76.7	Y	76.7	55.4	76.7	Y	0.0	N	N	N
LKPC-5	23	5	65	73.9	Y	76.7	Y	76.7	55.5	76.7	Y	0.0	N	N	N
LKPC-6	26	6	65	73.9	Y	76.7	Y	76.7	55.6	76.7	Y	0.0	N	N	N
LKPC-7	29	7	65	73.9	Y	76.8	Y	76.7	55.6	76.8	Y	0.1	N	N	N
LKPC-8	32	8	65	73.9	Y	76.8	Y	76.7	55.6	76.8	Y	0.1	N	N	N
YCS-1	11.4	1	65	71.7	Y	74.3	Y	74.2	54.8	74.3	Y	0.1	N	N	N
YCS-2	14.4	2	65	71.7	Y	74.3	Y	74.2	54.8	74.3	Y	0.1	N	N	N
YCS-3	17.4	3	65	71.8	Y	74.3	Y	74.2	54.8	74.3	Y	0.1	N	N	N
YCS-4	20.4	4	65	71.8	Y	74.3	Y	74.2	54.8	74.3	Y	0.1	N	N	N
YCS-5	23.4	5	65	71.8	Y	74.3	Y	74.2	54.9	74.3	Y	0.1	N	N	N
YCS-6	26.4	6	65	71.8	Y	74.3	Y	74.2	55.0	74.3	Y	0.1	N	N	N
YCS-7	29.4	7	65	71.8	Y	74.3	Y	74.2	55.0	74.3	Y	0.1	N	N	N
HT-1	11.1	1	65	77.0	Y	79.5	Y	79.6	47.9	79.6	Y	0.0	N	N	N
HT-2	14.1	2	65	77.0	Y	79.5	Y	79.6	50.7	79.6	Y	0.0	N	N	N
HT-3	17.1	3	65	76.9	Y	79.4	Y	79.5	53.8	79.6	Y	0.1	N	N	N
HT-4	20.1	4	65	76.9	Y	79.4	Y	79.5	55.6	79.5	Y	0.0	N	N	N
HT-5	23.1	5	65	76.9	Y	79.4	Y	79.4	56.4	79.5	Y	0.1	N	N	N
HT-6	26.1	6	65	76.8	Y	79.3	Y	79.4	56.7	79.4	Y	0.0	N	N	N
HT-7	29.1	7	65	76.7	Y	79.3	Y	79.3	56.9	79.4	Y	0.1	N	N	N
HT-8	32.1	8	65	76.7	Y	79.2	Y	79.3	56.9	79.3	Y	0.0	N	N	N
HT-9	35.1	9	65	76.6	Y	79.1	Y	79.2	57.0	79.2	Y	0.0	N	N	N
HT-10	38.1	10	65	76.5	Y	79.1	Y	79.1	57.0	79.1	Y	0.0	N	N	N
SRT-1	44.9	1	70	78.3	Y	80.2	Y	80.1	66.1	80.2	Y	0.1	N	N	N
SRT-2	47.9	2	70	78.3	Y	80.1	Y	80.0	66.1	80.1	Y	0.1	N	N	N
SRT-3	50.9	3	70	78.2	Y	80.0	Y	79.9	66.0	80.0	Y	0.1	N	N	N
SRT-4	53.9	4	70	78.1	Y	79.9	Y	79.8	65.9	79.9	Y	0.1	N	N	N
SRT-5	56.9	5	70	78.0	Y	79.7	Y	79.6	65.7	79.8	Y	0.2	N	N	N
SRT-6	59.9	6	70	77.9	Y	79.6	Y	79.5	65.6	79.7	Y	0.2	N	N	N
SRT-7	62.9	7	70	77.8	Y	79.5	Y	79.4	65.5	79.6	Y	0.2	N	N	N
SRT-8	65.9	8	70	77.7	Y	79.4	Y	79.3	65.4	79.5	Y	0.2	N	N	N
SRT-9	68.9	9	70	77.6	Y	79.3	Y	79.2	65.3	79.4	Y	0.2	N	N	N
SRT-10	71.9	10	70	77.5	Y	79.2	Y	79.1	65.2	79.3	Y	0.2	N	N	N

Assessment Point			Noise Criteria, dB(A)	Prevailing Traffic Noise (Year 2013), dB(A)	Exceedance (Y/N)	Without Project (Year 2030)		With Project (Year 2030)							
ID	mPD	Floor				Overall Noise Level, dB(A)	Exceedance (Y/N)	Other Roads (Planned + Existing), dB(A)	Project Roads, dB(A)	Overall Noise Level, dB(A)	Exceedance (Y/N)	Contribution of Project Roads, dB(A)	Significant Contribution (>1.0)	Project Roads > Criteria (Y/N)	Mitigation Required (Y/N)
SRT-11	74.9	11	70	77.4	Y	79.1	Y	79.0	65.1	79.2	Y	0.2	N	N	N
SRT-12	77.9	12	70	77.3	Y	79.0	Y	78.9	65.0	79.1	Y	0.2	N	N	N
SRT-13	80.9	13	70	77.2	Y	78.9	Y	78.8	64.9	79.0	Y	0.2	N	N	N
SRT-14	83.9	14	70	77.1	Y	78.8	Y	78.7	64.8	78.9	Y	0.2	N	N	N
SRT-15	86.9	15	70	77.0	Y	78.7	Y	78.6	64.7	78.8	Y	0.2	N	N	N
SRT-16	89.9	16	70	76.9	Y	78.6	Y	78.5	64.5	78.7	Y	0.2	N	N	N
SRT-17	92.9	17	70	76.8	Y	78.5	Y	78.4	64.4	78.6	Y	0.2	N	N	N
SRT-18	95.9	18	70	76.7	Y	78.4	Y	78.3	64.3	78.5	Y	0.2	N	N	N
SRT-19	98.9	19	70	76.6	Y	78.3	Y	78.2	64.2	78.4	Y	0.2	N	N	N
SRT-20	101.9	20	70	76.5	Y	78.2	Y	78.1	64.1	78.3	Y	0.2	N	N	N
SRT-21	104.9	21	70	76.4	Y	78.1	Y	78.0	64.0	78.2	Y	0.2	N	N	N
SRT-22	107.9	22	70	76.4	Y	78.1	Y	77.9	63.9	78.1	Y	0.2	N	N	N
SRT-23	110.9	23	70	76.3	Y	78.0	Y	77.9	63.8	78.0	Y	0.1	N	N	N
SRT-24	113.9	24	70	76.2	Y	77.9	Y	77.8	63.7	77.9	Y	0.1	N	N	N
SRT-25	116.9	25	70	76.1	Y	77.8	Y	77.7	63.6	77.8	Y	0.1	N	N	N
SRT-26	119.9	26	70	76.0	Y	77.7	Y	77.6	63.5	77.8	Y	0.2	N	N	N
SRT-27	122.9	27	70	75.9	Y	77.6	Y	77.5	63.4	77.7	Y	0.2	N	N	N
SRT-28	125.9	28	70	75.9	Y	77.5	Y	77.4	63.4	77.6	Y	0.2	N	N	N
SRT-29	128.9	29	70	75.8	Y	77.5	Y	77.3	63.3	77.5	Y	0.2	N	N	N
SRT-30	131.9	30	70	75.7	Y	77.4	Y	77.3	63.2	77.4	Y	0.1	N	N	N
SRT-31	134.9	31	70	75.6	Y	77.3	Y	77.2	63.1	77.4	Y	0.2	N	N	N
SRT-32	137.9	32	70	75.6	Y	77.2	Y	77.1	63.0	77.3	Y	0.2	N	N	N
SRT-33	140.9	33	70	75.5	Y	77.1	Y	77.0	62.9	77.2	Y	0.2	N	N	N
SRT-34	143.9	34	70	75.4	Y	77.1	Y	77.0	62.8	77.1	Y	0.1	N	N	N
SRT-35	146.9	35	70	75.3	Y	77.0	Y	76.9	62.7	77.0	Y	0.1	N	N	N
SRT-36	149.9	36	70	75.3	Y	76.9	Y	76.8	62.7	77.0	Y	0.2	N	N	N
SRT-37	152.9	37	70	75.2	Y	76.8	Y	76.7	62.6	76.9	Y	0.2	N	N	N
SRT-38	155.9	38	70	75.1	Y	76.8	Y	76.7	62.5	76.8	Y	0.1	N	N	N
SRT-39	158.9	39	70	75.0	Y	76.7	Y	76.6	62.4	76.8	Y	0.2	N	N	N
SRT-40	161.9	40	70	75.0	Y	76.6	Y	76.5	62.4	76.7	Y	0.2	N	N	N
SRT-41	164.9	41	70	74.9	Y	76.6	Y	76.4	62.3	76.6	Y	0.2	N	N	N
SRT-42	167.9	42	70	74.8	Y	76.5	Y	76.4	62.2	76.5	Y	0.1	N	N	N
SRT-43	170.9	43	70	74.8	Y	76.4	Y	76.3	62.1	76.5	Y	0.2	N	N	N
SRT-44	173.9	44	70	74.7	Y	76.4	Y	76.2	62.1	76.4	Y	0.2	N	N	N
SRT-45	176.9	45	70	74.7	Y	76.3	Y	76.2	62.0	76.3	Y	0.1	N	N	N
SRT-46	179.9	46	70	74.6	Y	76.2	Y	76.1	61.9	76.3	Y	0.2	N	N	N
SRT-47	182.9	47	70	74.5	Y	76.2	Y	76.1	61.8	76.2	Y	0.1	N	N	N
SRT-48	185.9	48	70	74.5	Y	76.1	Y	76.0	61.8	76.2	Y	0.2	N	N	N
SRT-49	188.9	49	70	74.4	Y	76.0	Y	75.9	61.7	76.1	Y	0.2	N	N	N
SRT-50	191.9	50	70	74.3	Y	76.0	Y	75.9	61.6	76.0	Y	0.1	N	N	N
SRT-51	194.9	51	70	74.3	Y	75.9	Y	75.8	61.6	76.0	Y	0.2	N	N	N
SRT-52	197.9	52	70	74.2	Y	75.9	Y	75.7	61.5	75.9	Y	0.2	N	N	N
SRT-53	200.9	53	70	74.2	Y	75.8	Y	75.7	61.5	75.8	Y	0.1	N	N	N
SRT-54	203.9	54	70	74.1	Y	75.7	Y	75.6	61.4	75.8	Y	0.2	N	N	N
SRT-55	206.9	55	70	74.0	Y	75.7	Y	75.6	61.3	75.7	Y	0.1	N	N	N
SRT-56	209.9	56	70	74.0	Y	75.6	Y	75.5	61.3	75.7	Y	0.2	N	N	N
SRT-57	212.9	57	70	73.9	Y	75.6	Y	75.5	61.2	75.6	Y	0.1	N	N	N
SRT-58	215.9	58	70	73.9	Y	75.5	Y	75.4	61.1	75.6	Y	0.2	N	N	N
SRT-59	218.9	59	70	73.8	Y	75.5	Y	75.3	61.1	75.5	Y	0.2	N	N	N
SRT-60	221.9	60	70	73.8	Y	75.4	Y	75.3	61.0	75.4	Y	0.1	N	N	N
SRT-61	224.9	61	70	73.7	Y	75.3	Y	75.2	61.0	75.4	Y	0.2	N	N	N
SRT-62	227.9	62	70	73.7	Y	75.3	Y	75.2	60.9	75.3	Y	0.1	N	N	N
SRT-63	230.9	63	70	73.6	Y	75.2	Y	75.1	60.9	75.3	Y	0.2	N	N	N
SRT-64	233.9	64	70	73.6	Y	75.2	Y	75.1	60.8	75.3	Y	0.2	N	N	N
SRT-65	236.9	65	70	73.5	Y	75.1	Y	75.0	60.7	75.2	Y	0.2	N	N	N
CLS-1	40	1	70	73.8	Y	75.6	Y	75.6	49.3	75.6	Y	0.0	N	N	N
CLS-2	43	2	70	73.8	Y	75.6	Y	75.7	49.2	75.7	Y	0.0	N	N	N
CLS-3	46	3	70	73.9	Y	75.7	Y	75.7	49.2	75.7	Y	0.0	N	N	N
CLS-4	49	4	70	73.9	Y	75.7	Y	75.7	49.1	75.7	Y	0.0	N	N	N

Assessment Point			Noise Criteria, dB(A)	Prevailing Traffic Noise (Year 2013), dB(A)	Exceedance (Y/N)	Without Project (Year 2030)		With Project (Year 2030)							
ID	mPD	Floor				Overall Noise Level, dB(A)	Exceedance (Y/N)	Other Roads (Planned + Existing), dB(A)	Project Roads, dB(A)	Overall Noise Level, dB(A)	Exceedance (Y/N)	Contribution of Project Roads, dB(A)	Significant Contribution (>1.0)	Project Roads > Criteria (Y/N)	Mitigation Required (Y/N)
CLS-5	52	5	70	73.8	Y	75.6	Y	75.7	49.1	75.7	Y	0.0	N	N	N
CLS-6	55	6	70	73.8	Y	75.6	Y	75.6	49.0	75.6	Y	0.0	N	N	N
CLS-7	58	7	70	73.7	Y	75.5	Y	75.6	48.9	75.6	Y	0.0	N	N	N
CLS-8	61	8	70	73.7	Y	75.5	Y	75.5	48.9	75.5	Y	0.0	N	N	N
CLS-9	64	9	70	73.6	Y	75.4	Y	75.4	48.8	75.4	Y	0.0	N	N	N
CLS-10	67	10	70	73.5	Y	75.3	Y	75.4	48.7	75.4	Y	0.0	N	N	N
CLS-11	70	11	70	73.5	Y	75.3	Y	75.3	48.7	75.3	Y	0.0	N	N	N
CLS-12	73	12	70	73.4	Y	75.2	Y	75.2	48.6	75.3	Y	0.1	N	N	N
CLS-13	76	13	70	73.4	Y	75.2	Y	75.2	48.5	75.2	Y	0.0	N	N	N
CLS-14	79	14	70	73.3	Y	75.1	Y	75.1	48.5	75.1	Y	0.0	N	N	N
CLS-15	82	15	70	73.2	Y	75.0	Y	75.1	48.4	75.1	Y	0.0	N	N	N
CLS-16	85	16	70	73.2	Y	75.0	Y	75.0	48.3	75.0	Y	0.0	N	N	N
CLS-17	88	17	70	73.1	Y	74.9	Y	74.9	48.2	74.9	Y	0.0	N	N	N
CLS-18	91	18	70	73.0	Y	74.8	Y	74.9	48.2	74.9	Y	0.0	N	N	N
CLS-19	94	19	70	73.0	Y	74.8	Y	74.8	48.1	74.8	Y	0.0	N	N	N
CLS-20	97	20	70	72.9	Y	74.7	Y	74.7	48.0	74.7	Y	0.0	N	N	N
CLS-21	100	21	70	72.8	Y	74.6	Y	74.6	47.9	74.7	Y	0.1	N	N	N
CLS-22	103	22	70	72.8	Y	74.6	Y	74.6	47.9	74.6	Y	0.0	N	N	N
CLS-23	106	23	70	72.7	Y	74.5	Y	74.5	47.8	74.5	Y	0.0	N	N	N
CLS-24	109	24	70	72.6	Y	74.4	Y	74.4	47.7	74.4	Y	0.0	N	N	N
CLS-25	112	25	70	72.6	Y	74.3	Y	74.4	47.7	74.4	Y	0.0	N	N	N
CLS-26	115	26	70	72.5	Y	74.3	Y	74.3	47.6	74.3	Y	0.0	N	N	N
CLS-27	118	27	70	72.4	Y	74.2	Y	74.2	47.5	74.2	Y	0.0	N	N	N