

NCA	NCA ID	Receiver Description	Receiver Type	Facade		Opening Year				Design Year				Increase (Build - No Build)				NCG project road noise criteria		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening Year		Design Year						
				Floor	Orientation	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day ≥ 65dB LAeq,15h	Night ≥ 60dB LAeq,9h	
16	16_0086		Residential	1	NW	61	57	58	54	61	58	59	55	-2.7	-2.5	-2.7	-2.8	60	55	NO	NO	NO
16	16_0087		Residential	G	SW	60	56	57	53	60	57	58	54	-2.7	-2.5	-2.7	-2.8	60	55	NO	NO	NO
16	16_0088		Residential	G	NW	59	55	56	52	59	55	56	52	-3	-2.8	-2.9	-3.1	60	55	NO	NO	NO
16	16_0088		Residential	1	NW	61	57	58	54	61	57	59	55	-2.3	-2.1	-2.2	-2.4	60	55	NO	NO	NO
16	16_0089		Residential	G	SW	59	55	57	53	59	56	57	53	-2.5	-2.4	-2.4	-2.6	60	55	NO	NO	NO
16	16_0090		Residential	G	NW	56	52	54	50	57	53	55	51	-2.1	-2	-2.1	-2.1	60	55	NO	NO	NO
16	16_0091		Residential	G	SW	56	52	54	50	57	53	54	50	-2.6	-2.5	-2.6	-2.7	60	55	NO	NO	NO
16	16_0091		Residential	1	NW	59	55	57	53	60	56	57	53	-2.5	-2.3	-2.3	-2.5	60	55	NO	NO	NO
16	16_0092		Residential	G	SW	57	53	54	50	57	54	54	50	-3	-2.9	-2.8	-3.1	60	55	NO	NO	NO
16	16_0092		Residential	1	SW	59	55	56	52	59	56	57	53	-2.6	-2.5	-2.5	-2.6	60	55	NO	NO	NO
16	16_0093		Residential	G	W	57	53	55	51	58	54	55	51	-2.6	-2.5	-2.5	-2.6	60	55	NO	NO	NO
16	16_0094		Residential	G	W	57	52	54	50	57	53	55	51	-2.1	-2	-1.9	-2.1	60	55	NO	NO	NO
16	16_0094		Residential	1	W	59	55	57	53	59	56	57	53	-2.4	-2.2	-2.2	-2.4	60	55	NO	NO	NO
16	16_0095		Residential	G	SW	57	53	54	50	57	53	55	51	-2.7	-2.5	-2.5	-2.6	60	55	NO	NO	NO
16	16_0096		Residential	G	NW	58	54	56	52	58	55	56	52	-2.2	-2	-2.1	-2.2	60	55	NO	NO	NO
16	16_0097		Residential	G	NE	55	51	55	51	56	52	56	52	0	0.2	0.1	0	60	55	NO	NO	NO
16	16_0097		Residential	1	NW	60	56	57	53	60	56	58	54	-2.5	-2.4	-2.4	-2.6	60	55	NO	NO	NO
16	16_0098		Residential	G	NE	53	49	53	49	54	50	53	49	-0.4	-0.2	-0.3	-0.4	60	55	NO	NO	NO
16	16_0099		Residential	G	NW	55	51	52	48	55	52	53	49	-2.7	-2.4	-2.5	-2.7	60	55	NO	NO	NO
16	16_0100		Residential	G	NE	54	50	53	49	54	50	54	50	-0.6	-0.4	-0.6	-0.6	60	55	NO	NO	NO
16	16_0101		Residential	G	N	55	51	54	50	55	51	54	50	-1.1	-0.8	-0.9	-1	60	55	NO	NO	NO
16	16_0102		Residential	G	NW	64	60	62	58	65	61	62	58	-2.3	-2.1	-2.3	-2.4	60	55	NO	NO	YES
16	16_0103		Residential	G	NW	65	61	62	58	66	62	63	59	-2.9	-2.6	-3.1	-3.1	60	55	NO	NO	YES
16	16_0104		Residential	G	NW	66	62	62	58	67	63	62	58	-4	-3.7	-4.3	-4.2	60	55	NO	NO	YES
16	16_0105		Residential	G	W	65	61	60	56	66	62	60	56	-5.8	-5.6	-6	-6.1	60	55	NO	NO	YES
16	16_0106		Residential	G	W	66	61	61	57	66	62	61	57	-5.1	-4.8	-5.4	-5.4	60	55	NO	NO	YES
16	16_0107		Residential	G	W	65	61	60	56	66	62	60	56	-5.5	-5.2	-5.8	-5.8	60	55	NO	NO	YES
16	16_0108		Residential	G	W	65	60	58	54	65	61	58	54	-7	-6.8	-7.4	-7.4	60	55	NO	NO	NO
16	16_0109		Residential	G	N	63	59	58	54	64	60	59	55	-5.1	-4.8	-5.2	-5.3	60	55	NO	NO	NO
16	16_0110		Residential	G	NW	63	58	58	55	63	59	59	55	-4.2	-3.9	-4.3	-4.3	60	55	NO	NO	NO
16	16_0111		Residential	G	NW	63	59	59	55	64	60	59	55	-4.2	-3.9	-4.3	-4.3	60	55	NO	NO	NO
16	16_0112		Residential	G	W	63	59	58	54	63	59	58	54	-4.8	-4.6	-4.9	-5	60	55	NO	NO	NO
16	16_0113		Residential	G	N	62	57	59	55	62	58	59	55	-3	-2.7	-2.9	-3	60	55	NO	NO	NO
16	16_0114		Residential	G	W	64	60	60	56	64	60	60	56	-3.8	-3.6	-3.9	-4	60	55	NO	NO	YES
16	16_0115		Residential	G	NW	63	59	60	56	64	60	61	57	-3.3	-3.1	-3.4	-3.5	60	55	NO	NO	YES
16	16_0116		Residential	G	NW	62	58	59	55	63	59	60	56	-3.2	-3	-3.2	-3.3	60	55	NO	NO	YES
16	16_0117		Residential	G	NW	62	58	59	56	63	59	60	56	-3	-2.7	-3	-3	60	55	NO	NO	YES
16	16_0118		Residential	G	SW	61	57	58	54	62	58	58	54	-3.5	-3.2	-3.5	-3.5	60	55	NO	NO	NO
16	16_0119		Residential	G	SW	62	58	58	54	62	58	59	55	-3.4	-3.2	-3.4	-3.5	60	55	NO	NO	NO
16	16_0120		Residential	G	SW	61	57	58	54	62	58	58	54	-3.6	-3.4	-3.6	-3.7	60	55	NO	NO	NO
16	16_0121		Residential	G	NW	59	55	55	51	59	55	55	51	-3.9	-3.7	-3.8	-3.9	60	55	NO	NO	NO
16	16_0122		Residential	G	NE	58	54	57	53	59	55	57	54	-1.3	-1.1	-1.3	-1.4	60	55	NO	NO	NO
16	16_0123		Residential	G	NE	58	54	57	53	59	55	57	53	-1.5	-1.3	-1.4	-1.4	60	55	NO	NO	NO
16	16_0124		Residential	G	NE	58	54	56	53	58	55	57	53	-1.4	-1.1	-1.4	-1.4	60	55	NO	NO	NO
16	16_0125		Residential	G	NE	57	53	56	52	57	53	56	52	-0.9	-0.7	-0.9	-0.9	60	55	NO	NO	NO
16	16_0126		Residential	G	NE	57	53	56	52	58	54	56	52	-1.5	-1.3	-1.4	-1.5	60	55	NO	NO	NO
16	16_0127		Residential	G	NE	57	53	55	52	57	54	56	52	-1.5	-1.3	-1.4	-1.5	60	55	NO	NO	NO
16	16_0128		Residential	G	NE	55	51	54	50	56	52	54	50	-1.5	-1.2	-1.3	-1.4	60	55	NO	NO	NO
16	16_0128		Residential	1	NW	59	55	56	52	59	56	57	53	-2.8	-2.6	-2.7	-2.8	60	55	NO	NO	NO
16	16_0129		Residential	G	NE	55	51	54	50	55	52	54	50	-1.3	-1.1	-1.2	-1.3	60	55	NO	NO	NO
16	16_0130		Residential	G	NE	55	51	53	50	55	52	54	50	-1.4	-1.3	-1.3	-1.4	60	55	NO	NO	NO
16	16_0131		Residential	G	NE	54	50	53	49	55	51	53	49	-1.6	-1.5	-1.5	-1.6	60	55	NO	NO	NO
16	16_0131		Residential	1	NW	56	52	55	51	57	53	55	51	-1.9	-1.7	-1.8	-1.8	60	55	NO	NO	NO
16	16_0132		Residential	G	NE	54	50	53	49	55	51	53	49	-1.6	-1.5	-1.5	-1.6	60	55	NO	NO	NO
16	16_0133		Residential	G	N	55	50	53	49	55	51	53	49	-2	-1.8	-1.9	-1.9	60	55	NO	NO	NO
16	16_0134		Residential	G	NW	55	51	52	48	55	51	53	49	-2.3	-2.2	-2.2	-2.3	60	55	NO	NO	NO
16	16_0135		Residential	G	W	55	51	53	49	55	52	53	49	-2.3	-2.2	-2.3	-2.4	60	55	NO	NO	NO

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				Floor	Orientation	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day ≥ 65dB LAeq,15h	Night ≥ 60dB LAeq,9h	
16	16_0136		Residential	G	W	55	51	52	48	56	52	53	49	-2.7	-2.6	-2.5	-2.7	60	55	NO	NO	NO
16	16_0137		Residential	G	W	56	52	53	49	56	52	54	50	-2.8	-2.7	-2.6	-2.8	60	55	NO	NO	NO
16	16_0138		Residential	G	W	56	52	54	50	56	53	54	50	-2.2	-2.1	-2	-2.3	60	55	NO	NO	NO
16	16_0139		Residential	G	NW	56	52	54	50	56	52	54	50	-2.1	-2	-2	-2.1	60	55	NO	NO	NO
16	16_0140		Residential	G	NW	55	51	53	49	55	51	53	49	-2	-1.9	-1.9	-2	60	55	NO	NO	NO
16	16_0140		Residential	1	NW	57	53	54	51	57	53	55	51	-2.1	-2	-1.8	-2	60	55	NO	NO	NO
16	16_0141		Residential	G	SW	53	49	50	46	54	50	50	46	-3.7	-3.7	-3.5	-3.8	60	55	NO	NO	NO
16	16_0141		Residential	1	SW	55	51	52	48	55	52	53	49	-2.7	-2.6	-2.5	-2.7	60	55	NO	NO	NO
16	16_0142		Residential	G	SW	52	48	47	43	52	48	48	44	-4.4	-4.3	-4.2	-4.5	60	55	NO	NO	NO
16	16_0142		Residential	1	SW	53	49	49	45	53	50	50	46	-3.5	-3.5	-3.3	-3.6	60	55	NO	NO	NO
16	16_0143		Residential	G	SW	53	49	49	45	53	50	50	46	-3.4	-3.4	-3.3	-3.5	60	55	NO	NO	NO
16	16_0143		Residential	1	SW	54	50	51	47	54	51	52	48	-2.9	-2.9	-2.7	-3	60	55	NO	NO	NO
16	16_0144		Residential	G	SW	53	49	50	46	53	50	50	46	-3.2	-3.2	-3	-3.3	60	55	NO	NO	NO
16	16_0144		Residential	1	SW	54	50	51	47	54	51	52	48	-2.6	-2.5	-2.4	-2.7	60	55	NO	NO	NO
16	16_0145		Residential	G	SW	53	49	51	47	54	50	51	47	-2.8	-2.8	-2.6	-2.9	60	55	NO	NO	NO
16	16_0146		Residential	G	SW	53	49	50	46	53	49	51	47	-2.7	-2.7	-2.6	-2.8	60	55	NO	NO	NO
16	16_0146		Residential	1	SW	54	50	51	47	54	50	52	48	-2.4	-2.3	-2.2	-2.4	60	55	NO	NO	NO
16	16_0147		Residential	G	W	51	46	49	45	51	47	49	45	-1.9	-1.7	-1.7	-1.8	60	55	NO	NO	NO
16	16_0148		Residential	G	W	53	49	51	47	53	50	51	47	-2.4	-2.4	-2.2	-2.4	60	55	NO	NO	NO
16	16_0149		Residential	G	W	54	50	52	48	54	50	52	49	-1.7	-1.5	-1.6	-1.7	60	55	NO	NO	NO
16	16_0150		Residential	G	NW	52	48	50	46	52	48	51	47	-1.4	-1.3	-1.3	-1.4	60	55	NO	NO	NO
16	16_0151		Residential	G	W	53	49	51	47	54	50	52	48	-2	-1.9	-1.9	-2	60	55	NO	NO	NO
16	16_0152		Residential	G	W	54	50	52	48	54	50	53	49	-1.6	-1.5	-1.5	-1.7	60	55	NO	NO	NO
16	16_0153		Residential	G	N	54	50	52	49	55	51	53	49	-1.8	-1.5	-1.6	-1.7	60	55	NO	NO	NO
16	16_0154		Residential	G	N	54	50	53	49	54	50	53	49	-1.2	-1	-1.1	-1.2	60	55	NO	NO	NO
16	16_0155		Residential	G	N	52	47	51	47	52	48	51	47	-1	-0.8	-0.9	-1	60	55	NO	NO	NO
16	16_0155		Residential	1	N	55	51	53	50	55	52	54	50	-1.5	-1.4	-1.3	-1.5	60	55	NO	NO	NO
16	16_0156		Residential	G	N	53	49	52	48	54	50	53	49	-1.4	-1.2	-1.2	-1.3	60	55	NO	NO	NO
16	16_0157		Residential	G	W	56	51	54	50	56	52	54	51	-1.6	-1.5	-1.5	-1.6	60	55	NO	NO	NO
16	16_0158		Residential	G	N	56	52	54	50	56	53	55	51	-1.9	-1.7	-1.7	-1.9	60	55	NO	NO	NO
16	16_0159		Residential	G	N	57	53	55	51	57	54	55	52	-2	-1.9	-1.8	-2	60	55	NO	NO	NO
16	16_0160		Residential	G	N	57	53	55	51	58	54	56	52	-1.9	-1.8	-1.8	-2	60	55	NO	NO	NO
16	16_0160		Residential	1	W	58	54	56	52	58	54	57	53	-1.8	-1.7	-1.6	-1.8	60	55	NO	NO	NO
16	16_0161		Residential	G	N	57	53	55	51	58	54	56	52	-1.9	-1.8	-1.8	-1.9	60	55	NO	NO	NO
16	16_0161		Residential	1	W	58	54	56	52	58	55	56	53	-1.9	-1.8	-1.8	-2	60	55	NO	NO	NO
16	16_0162		Residential	G	W	57	53	55	51	57	53	56	52	-1.6	-1.4	-1.5	-1.5	60	55	NO	NO	NO
16	16_0163		Residential	G	N	55	51	54	50	56	52	54	50	-1.4	-1.3	-1.4	-1.5	60	55	NO	NO	NO
16	16_0164		Residential	G	N	58	54	56	52	59	55	56	52	-2.3	-2.1	-2.1	-2.3	60	55	NO	NO	NO
16	16_0165		Residential	G	N	59	55	56	52	59	55	57	53	-2.3	-2.3	-2.2	-2.4	60	55	NO	NO	NO
16	16_0166		Residential	G	W	60	56	58	54	60	57	58	54	-2.1	-2	-2	-2.2	60	55	NO	NO	NO
16	16_0166		Residential	1	W	61	57	59	55	62	58	59	55	-2.5	-2.4	-2.3	-2.6	60	55	NO	NO	NO
16	16_0167		Residential	G	NW	59	55	56	52	59	55	57	53	-2.6	-2.5	-2.5	-2.6	60	55	NO	NO	NO
16	16_0168		Residential	G	N	60	56	58	54	60	56	59	55	-1.6	-1.5	-1.6	-1.7	60	55	NO	NO	NO
16	16_0169		Residential	G	NE	52	48	51	47	52	48	51	47	-0.9	-0.8	-0.9	-0.9	60	55	NO	NO	NO
16	16_0169		Residential	1	NW	57	53	55	51	58	54	55	51	-2.4	-2.3	-2.3	-2.5	60	55	NO	NO	NO
16	16_0170		Residential	G	W	55	51	53	49	55	51	54	50	-1.7	-1.6	-1.7	-1.8	60	55	NO	NO	NO
16	16_0171		Residential	G	N	54	50	53	49	55	51	53	49	-1.3	-1.1	-1.2	-1.3	60	55	NO	NO	NO
16	16_0172		Residential	G	SW	56	52	54	50	57	53	54	50	-2.7	-2.6	-2.5	-2.7	60	55	NO	NO	NO
16	16_0173		Residential	G	SW	56	52	53	49	56	53	54	50	-2.8	-2.8	-2.6	-2.9	60	55	NO	NO	NO
16	16_0174		Residential	G	SW	55	51	52	49	55	52	53	49	-2.4	-2.3	-2.3	-2.5	60	55	NO	NO	NO
16	16_0174		Residential	1	SW	57	53	55	51	58	54	55	51	-2.3	-2.2	-2.2	-2.4	60	55	NO	NO	NO
16	16_0175		Residential	G	W	54	50	52	48	55	51	52	48	-2.6	-2.5	-2.4	-2.6	60	55	NO	NO	NO
16	16_0175		Residential	1	W	57	53	54	50	57	53	55	51	-2.5	-2.5	-2.4	-2.5	60	55	NO	NO	NO
16	16_0176		Residential	G	W	56	52	54	50	56	53	55	51	-1.8	-1.7	-1.6	-1.8	60	55	NO	NO	NO
16	16_0177		Residential	G	W	57	53	55	51	58	54	56	52	-1.8	-1.8	-1.7	-1.9	60	55	NO	NO	NO
16	16_0177		Residential	1	W	58	54	56	53	58	55	57	53	-1.6	-1.5	-1.4	-1.5	60	55	NO	NO	NO
16	16_0178		Residential	G	N	58	54	56	52	58	54	57	53	-1.5	-1.5	-1.4	-1.6	60	55	NO	NO	NO

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16	16_0179		Residential	G	N	55	51	55	51	55	51	55	51	-0.3	-0.1	-0.1	-0.2	60	55	NO	NO	NO
16	16_0179		Residential	1	W	58	54	56	52	58	54	57	53	-1.4	-1.3	-1.3	-1.4	60	55	NO	NO	NO
16	16_0180		Residential	G	W	53	49	53	49	53	49	54	49	0	0.1	0.1	0	60	55	NO	NO	NO
16	16_0180		Residential	1	W	56	52	56	52	57	53	56	52	-0.6	-0.4	-0.4	-0.5	60	55	NO	NO	NO
16	16_0181		Residential	G	NW	55	51	54	50	55	51	54	50	-1.3	-1.2	-1.2	-1.3	60	55	NO	NO	NO
16	16_0181		Residential	1	NW	58	54	57	53	58	55	57	53	-1.3	-1.2	-1.2	-1.3	60	55	NO	NO	NO
16	16_0182		Residential	G	NE	50	46	51	46	51	47	51	47	0.5	0.6	0.4	0.3	60	55	NO	NO	NO
16	16_0182		Residential	1	NE	54	50	54	50	54	50	55	50	0.2	0.3	0.3	0.2	60	55	NO	NO	NO
16	16_0183		Residential	G	NE	50	46	51	47	51	47	51	47	0.5	0.7	0.5	0.4	60	55	NO	NO	NO
16	16_0183		Residential	1	SW	55	51	53	49	56	52	54	50	-2.4	-2.3	-2.2	-2.4	60	55	NO	NO	NO
16	16_0184		Residential	G	SW	54	50	52	48	55	51	53	49	-2.1	-2.1	-1.9	-2.1	60	55	NO	NO	NO
16	16_0184		Residential	1	SW	56	52	54	50	56	53	55	51	-1.9	-1.8	-1.7	-1.9	60	55	NO	NO	NO
16	16_0185		Residential	G	SW	54	50	52	48	54	50	53	49	-1.5	-1.3	-1.4	-1.5	60	55	NO	NO	NO
16	16_0185		Residential	1	SW	56	52	54	50	56	52	54	51	-1.8	-1.8	-1.7	-1.9	60	55	NO	NO	NO
16	16_0186		Residential	G	SW	53	49	52	48	54	50	53	49	-1.2	-1.1	-1	-1.1	60	55	NO	NO	NO
16	16_0187		Residential	G	NW	56	52	54	50	56	52	55	51	-1.5	-1.4	-1.3	-1.5	60	55	NO	NO	NO
16	16_0188		Residential	G	NW	54	50	53	49	55	51	54	50	-1.1	-1	-0.9	-1.1	60	55	NO	NO	NO
16	16_0188		Residential	1	NW	55	51	54	50	55	52	54	50	-1.1	-1	-1	-1.1	60	55	NO	NO	NO
16	16_0189		Residential	G	SW	52	48	50	46	53	49	51	47	-2.5	-2.4	-2.3	-2.5	60	55	NO	NO	NO
16	16_0189		Residential	1	SW	53	49	51	47	53	50	52	48	-2.1	-2	-1.8	-2.1	60	55	NO	NO	NO
16	16_0190		Residential	G	SW	52	48	49	45	53	49	50	46	-2.8	-2.9	-2.6	-2.9	60	55	NO	NO	NO
16	16_0190		Residential	1	SW	53	49	50	46	53	49	51	47	-2.5	-2.5	-2.4	-2.5	60	55	NO	NO	NO
16	16_0191		Residential	G	SW	52	48	49	45	53	49	50	46	-3.1	-3.1	-2.8	-3.1	60	55	NO	NO	NO
16	16_0191		Residential	1	SW	53	49	50	46	53	50	51	47	-2.6	-2.7	-2.4	-2.7	60	55	NO	NO	NO
16	16_0191		Residential	2	SW	54	50	51	47	54	50	52	48	-2.2	-2.1	-1.9	-2.3	60	55	NO	NO	NO
16	16_0192		Residential	G	SW	47	43	46	42	48	44	46	42	-1.9	-1.8	-1.8	-1.9	60	55	NO	NO	NO
16	16_0192		Residential	1	NE	51	47	51	47	52	48	52	48	0.3	0.4	0.3	0.2	60	55	NO	NO	NO
16	16_0193		Residential	G	NW	55	51	54	50	56	52	55	51	-1.4	-1.3	-1.2	-1.4	60	55	NO	NO	NO
16	16_0193		Residential	1	NW	56	52	55	51	56	52	55	51	-1.2	-1.1	-1.1	-1.3	60	55	NO	NO	NO
16	16_0194		Residential	G	SW	51	47	49	45	52	48	50	46	-2.2	-2.2	-2.1	-2.2	60	55	NO	NO	NO
16	16_0194		Residential	1	SW	54	50	51	47	54	50	52	48	-2.3	-2.2	-2.1	-2.4	60	55	NO	NO	NO
16	16_0195		Residential	G	SW	53	49	51	47	53	50	51	47	-2.3	-2.2	-2.1	-2.2	60	55	NO	NO	NO
16	16_0195		Residential	1	NW	55	51	53	49	55	51	54	49	-1.8	-1.9	-1.6	-1.9	60	55	NO	NO	NO
16	16_0196		Residential	G	W	53	49	51	47	54	50	52	48	-2.2	-2.3	-2.1	-2.3	60	55	NO	NO	NO
16	16_0196		Residential	1	W	54	50	53	49	55	51	53	49	-1.9	-1.9	-1.8	-2	60	55	NO	NO	NO
16	16_0197		Residential	G	NW	53	49	51	47	54	50	51	47	-2.5	-2.5	-2.3	-2.5	60	55	NO	NO	NO
16	16_0197		Residential	1	SW	55	51	53	49	55	51	53	49	-2.1	-2.1	-2	-2.2	60	55	NO	NO	NO
16	16_0198		Residential	G	NW	53	48	51	47	53	49	52	48	-1.2	-1.1	-1.1	-1.2	60	55	NO	NO	NO
16	16_0199		Residential	G	SW	54	50	51	47	54	51	52	48	-2.6	-2.6	-2.4	-2.7	60	55	NO	NO	NO
16	16_0200		Residential	G	SW	52	48	48	44	52	48	48	45	-3.9	-3.8	-3.6	-3.9	60	55	NO	NO	NO
16	16_0200		Residential	1	SW	54	50	51	47	54	51	52	48	-2.7	-2.7	-2.5	-2.7	60	55	NO	NO	NO
16	16_0201		Residential	G	SW	53	49	50	46	54	50	51	47	-3	-2.9	-2.8	-3	60	55	NO	NO	NO
16	16_0201		Residential	1	SW	55	51	52	48	55	51	53	49	-2.6	-2.5	-2.4	-2.6	60	55	NO	NO	NO
16	16_0202		Residential	G	SW	55	51	53	49	55	52	53	49	-2.4	-2.3	-2.1	-2.4	60	55	NO	NO	NO
16	16_0203		Residential	G	SW	56	52	54	50	56	52	54	50	-2.1	-2	-2	-2.2	60	55	NO	NO	NO
16	16_0203		Residential	1	NW	57	53	55	51	57	53	56	52	-1.6	-1.4	-1.4	-1.6	60	55	NO	NO	NO
16	16_0204		Residential	G	NW	55	50	53	49	55	51	54	50	-1.4	-1.4	-1.4	-1.5	60	55	NO	NO	NO
16	16_0205		Residential	G	SW	56	52	54	50	57	53	55	51	-2.1	-2	-1.9	-2.1	60	55	NO	NO	NO
16	16_0206		Residential	G	W	56	52	54	50	56	52	55	51	-1.5	-1.4	-1.4	-1.5	60	55	NO	NO	NO
16	16_0206		Residential	1	W	58	54	56	52	58	54	57	53	-1.5	-1.5	-1.4	-1.6	60	55	NO	NO	NO
16	16_0207		Residential	G	W	55	51	54	50	56	52	54	50	-1.8	-1.7	-1.7	-1.8	60	55	NO	NO	NO
16	16_0207		Residential	1	W	57	53	55	51	58	54	56	52	-1.8	-1.7	-1.7	-1.9	60	55	NO	NO	NO
16	16_0208		Residential	G	SW	53	49	52	48	54	50	53	49	-1	-0.9	-0.9	-0.9	60	55	NO	NO	NO
16	16_0208		Residential	1	SW	57	53	54	50	57	53	55	51	-2.3	-2.2	-2.1	-2.3	60	55	NO	NO	NO
16	16_0209		Residential	G	NW	56	52	54	50	57	53	55	51	-2.3	-2.2	-2.1	-2.3	60	55	NO	NO	NO
16	16_0210		Residential	G	NW	56	52	53	49	56	52	54	50	-2.5	-2.4	-2.3	-2.6	60	55	NO	NO	NO
16	16_0210		Residential	1	NW	57	53	55	51	58	54	56	52	-1.8	-1.7	-1.6	-1.8	60	55	NO	NO	NO

NCA	NCA ID	Receiver Description	Receiver Type	Facade		Opening Year				Design Year				Increase (Build - No Build)				NCG project road noise criteria		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening Year		Design Year						
				Floor	Orientation	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day ≥ 65dB LAeq,15h	Night ≥ 60dB LAeq,9h	
16	16_0211		Residential	G	SW	53	49	48	44	53	50	49	45	-4.6	-4.6	-4.4	-4.7	60	55	NO	NO	NO
16	16_0211		Residential	1	SW	53	48	51	47	53	49	52	48	-1.3	-1.1	-1.1	-1.2	60	55	NO	NO	NO
16	16_0212		Residential	G	SW	55	51	52	48	55	52	53	49	-2.9	-2.8	-2.7	-2.9	60	55	NO	NO	NO
16	16_0213		Residential	G	SW	55	51	53	49	55	52	53	49	-2.5	-2.4	-2.4	-2.6	60	55	NO	NO	NO
16	16_0214		Residential	G	SW	55	51	53	49	55	52	53	49	-2.3	-2.2	-2.1	-2.4	60	55	NO	NO	NO
16	16_0215		Residential	G	SW	55	51	53	49	55	52	53	49	-2.1	-2.1	-2	-2.1	60	55	NO	NO	NO
16	16_0216		Residential	G	SW	54	50	52	49	55	51	53	49	-2	-1.9	-1.8	-2.1	60	55	NO	NO	NO
16	16_0217		Residential	G	SW	52	48	49	46	53	49	50	46	-2.9	-2.8	-2.7	-2.9	60	55	NO	NO	NO
16	16_0217		Residential	1	SW	54	50	51	47	54	50	52	48	-2.4	-2.4	-2.2	-2.5	60	55	NO	NO	NO
16	16_0218		Residential	G	NW	53	49	51	47	54	50	52	48	-1.9	-1.9	-1.8	-2.1	60	55	NO	NO	NO
16	16_0219		Residential	G	SW	52	48	50	46	53	49	50	46	-2.4	-2.4	-2.2	-2.5	60	55	NO	NO	NO
16	16_0220		Residential	G	W	52	48	49	45	52	48	50	46	-2.4	-2.4	-2.2	-2.5	60	55	NO	NO	NO
16	16_0220		Residential	1	W	53	49	50	46	53	49	51	47	-2.5	-2.4	-2.3	-2.6	60	55	NO	NO	NO
16	16_0221		Residential	G	SW	51	47	49	45	52	48	49	45	-2.5	-2.5	-2.4	-2.6	60	55	NO	NO	NO
16	16_0221		Residential	1	SW	53	49	51	47	53	50	51	47	-2.4	-2.3	-2.2	-2.5	60	55	NO	NO	NO
16	16_0222		Residential	G	W	53	49	50	46	53	49	51	47	-2.3	-2.3	-2.1	-2.3	60	55	NO	NO	NO
16	16_0222		Residential	1	W	53	49	51	47	54	50	52	48	-2	-2	-1.8	-2	60	55	NO	NO	NO
16	16_0223		Residential	G	W	50	46	48	44	51	47	49	45	-2.3	-2.3	-2.1	-2.3	60	55	NO	NO	NO
16	16_0223		Residential	1	W	52	48	50	46	52	49	50	46	-2.4	-2.3	-2.2	-2.5	60	55	NO	NO	NO
16	16_0224		Residential	G	NW	53	49	51	47	53	50	52	48	-1.8	-1.7	-1.7	-1.8	60	55	NO	NO	NO
16	16_0225		Residential	G	NE	48	44	48	44	49	45	49	45	0.3	0.4	0.4	0.2	60	55	NO	NO	NO
16	16_0225		Residential	1	NW	54	50	52	48	54	50	52	48	-1.7	-1.6	-1.5	-1.7	60	55	NO	NO	NO
16	16_0226		Residential	G	N	54	50	52	48	54	51	53	49	-1.7	-1.6	-1.5	-1.7	60	55	NO	NO	NO
16	16_0226		Residential	1	N	54	50	53	49	55	51	53	49	-1.7	-1.6	-1.5	-1.7	60	55	NO	NO	NO
16	16_0227		Residential	G	NW	54	50	53	49	54	51	53	49	-1.2	-1.1	-1	-1.2	60	55	NO	NO	NO
16	16_0227		Residential	1	NW	55	51	53	49	55	51	54	50	-1.5	-1.4	-1.3	-1.5	60	55	NO	NO	NO
16	16_0228		Residential	G	N	53	49	52	48	54	50	53	49	-1	-0.8	-0.8	-0.9	60	55	NO	NO	NO
16	16_0228		Residential	1	N	54	50	53	49	55	51	54	50	-1.5	-1.4	-1.3	-1.5	60	55	NO	NO	NO
16	16_0228		Residential	2	N	55	51	53	50	55	52	54	50	-1.7	-1.5	-1.4	-1.6	60	55	NO	NO	NO
16	16_0229		Residential	G	N	51	47	50	46	52	48	51	47	-0.8	-0.6	-0.7	-0.7	60	55	NO	NO	NO
16	16_0229		Residential	1	N	54	50	52	48	54	50	53	49	-1.3	-1.1	-1.1	-1.3	60	55	NO	NO	NO
16	16_0229		Residential	2	N	55	51	53	50	55	52	54	50	-1.6	-1.5	-1.4	-1.6	60	55	NO	NO	NO
16	16_0230		Residential	G	N	52	47	51	46	52	48	51	47	-1	-0.9	-0.9	-1	60	55	NO	NO	NO
16	16_0230		Residential	1	N	55	51	54	50	55	52	54	50	-1.2	-1.1	-1.1	-1.3	60	55	NO	NO	NO
16	16_0231		Residential	G	N	54	50	54	50	55	51	54	50	-0.7	-0.4	-0.5	-0.6	60	55	NO	NO	NO
16	16_0231		Residential	1	N	56	52	55	51	56	53	55	51	-1.2	-1.1	-1.1	-1.2	60	55	NO	NO	NO
16	16_0232		Residential	G	N	54	50	54	50	55	51	54	50	-0.6	-0.4	-0.5	-0.6	60	55	NO	NO	NO
16	16_0232		Residential	1	N	56	52	55	51	57	53	56	52	-1.2	-1	-1.1	-1.2	60	55	NO	NO	NO
16	16_0233		Residential	G	N	54	50	53	49	54	50	53	49	-1.2	-1.1	-1.1	-1.3	60	55	NO	NO	NO
16	16_0233		Residential	1	N	57	53	55	52	58	54	56	52	-1.9	-1.8	-1.6	-1.9	60	55	NO	NO	NO
16	16_0234		Residential	G	N	55	51	53	49	55	51	53	49	-2.3	-2.3	-2.2	-2.4	60	55	NO	NO	NO
16	16_0234		Residential	1	N	57	53	55	52	58	54	56	52	-1.9	-1.8	-1.8	-2	60	55	NO	NO	NO
16	16_0235		Residential	G	W	57	53	55	52	57	54	56	52	-1.7	-1.5	-1.5	-1.7	60	55	NO	NO	NO
16	16_0235		Residential	1	W	58	54	56	52	58	54	56	53	-1.9	-1.7	-1.7	-1.9	60	55	NO	NO	NO
16	16_0235		Residential	2	W	58	54	56	52	59	55	57	53	-1.9	-1.8	-1.7	-1.9	60	55	NO	NO	NO
16	16_0236		Residential	G	N	56	51	55	51	56	52	55	51	-0.9	-0.8	-0.9	-1	60	55	NO	NO	NO
16	16_0236		Residential	1	N	58	54	56	52	58	55	57	53	-1.7	-1.6	-1.6	-1.8	60	55	NO	NO	NO
16	16_0237		Residential	G	N	58	54	56	52	58	55	57	53	-1.8	-1.6	-1.7	-1.8	60	55	NO	NO	NO
16	16_0238		Residential	G	N	58	54	56	52	59	55	57	53	-1.9	-1.7	-1.7	-1.9	60	55	NO	NO	NO
16	16_0238		Residential	1	N	59	55	57	53	60	56	57	54	-2.3	-2.2	-2.2	-2.4	60	55	NO	NO	NO
16	16_0239		Residential	G	N	58	54	57	53	59	55	58	54	-1.3	-1.3	-1.2	-1.4	60	55	NO	NO	NO
16	16_0239		Residential	1	N	60	56	58	54	61	57	58	55	-2.3	-2.2	-2.2	-2.4	60	55	NO	NO	NO
16	16_0239		Residential	2	W	61	57	59	55	61	58	59	55	-2.4	-2.3	-2.2	-2.4	60	55	NO	NO	NO
16	16_0240		Residential	G	W	60	56	58	54	60	57	58	54	-2.4	-2.4	-2.3	-2.5	60	55	NO	NO	NO
16	16_0240		Residential	1	W	61	57	58	54	61	57	59	55	-2.4	-2.4	-2.2	-2.4	60	55	NO	NO	NO
16	16_0241		Residential	G	N	60	56	58	54	60	56	58	54	-2.1	-2.1	-2	-2.3	60	55	NO	NO	NO
16	16_0241		Residential	1	N	61	57	59	55	62	58	59	55	-2.5	-2.4	-2.3	-2.6	60	55	NO	NO	NO

NCA	NCA ID	Receiver Description	Receiver Type	Facade		Opening Year				Design Year				Increase (Build - No Build)				NCG project road noise criteria		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening Year		Design Year						
				Floor	Orientation	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day ≥ 65dB LAeq,15h	Night ≥ 60dB LAeq,9h	
16	16_0242		Residential	G	N	59	55	57	53	59	56	57	53	-2.3	-2.2	-2.2	-2.4	60	55	NO	NO	NO
16	16_0242		Residential	1	N	61	57	59	55	62	58	59	55	-2.4	-2.4	-2.3	-2.6	60	55	NO	NO	NO
16	16_0243		Residential	G	W	61	57	58	54	61	57	59	55	-2.2	-2.2	-2.1	-2.3	60	55	NO	NO	NO
16	16_0243		Residential	1	W	62	58	60	56	63	59	60	56	-2.5	-2.4	-2.4	-2.6	60	55	NO	NO	NO
16	16_0244		Residential	G	W	60	56	58	54	61	57	59	55	-2.3	-2.2	-2.2	-2.3	60	55	NO	NO	NO
16	16_0244		Residential	1	W	62	58	60	56	62	59	60	56	-2.4	-2.3	-2.3	-2.5	60	55	NO	NO	NO
16	16_0245		Residential	G	W	62	58	60	56	62	58	60	56	-2.1	-2.1	-2	-2.2	60	55	NO	NO	NO
16	16_0246		Residential	G	NW	62	58	60	56	62	59	60	56	-2.1	-1.9	-1.9	-2.1	60	55	NO	NO	NO
16	16_0247		Residential	G	NW	61	57	59	55	61	57	60	56	-1.8	-1.7	-1.6	-1.9	60	55	NO	NO	NO
16	16_0248		Residential	G	N	59	55	57	53	60	56	58	54	-2.3	-2.2	-2.1	-2.4	60	55	NO	NO	NO
16	16_0248		Residential	1	W	61	57	59	55	61	57	59	56	-1.6	-1.6	-1.5	-1.7	60	55	NO	NO	NO
16	16_0249		Residential	G	NW	59	55	57	53	60	56	58	54	-2.1	-2.1	-2	-2.2	60	55	NO	NO	NO
16	16_0249		Residential	1	NW	60	56	58	55	61	57	59	55	-1.7	-1.5	-1.5	-1.7	60	55	NO	NO	NO
16	16_0250		Residential	G	W	59	55	57	53	60	56	58	54	-2.3	-2.2	-2.1	-2.4	60	55	NO	NO	NO
16	16_0251		Residential	G	W	60	56	58	54	60	56	58	54	-2.1	-1.9	-1.8	-2	60	55	NO	NO	NO
16	16_0252		Residential	G	W	58	54	57	53	59	55	58	54	-0.8	-0.7	-0.8	-0.9	60	55	NO	NO	NO
16	16_0253		Residential	G	W	60	56	58	54	60	57	59	55	-1.6	-1.5	-1.5	-1.7	60	55	NO	NO	NO
16	16_0254		Residential	G	W	59	55	58	54	60	56	58	54	-1.8	-1.8	-1.7	-1.9	60	55	NO	NO	NO
16	16_0254		Residential	1	W	61	57	59	55	61	57	60	56	-1.4	-1.4	-1.4	-1.6	60	55	NO	NO	NO
16	16_0255		Residential	G	W	59	55	58	54	59	56	58	54	-1.5	-1.4	-1.4	-1.6	60	55	NO	NO	NO
16	16_0256		Residential	G	W	58	54	57	53	59	55	57	53	-1.5	-1.4	-1.4	-1.6	60	55	NO	NO	NO
16	16_0256		Residential	1	W	60	56	59	55	60	57	59	55	-1.2	-1.2	-1.1	-1.3	60	55	NO	NO	NO
16	16_0257		Residential	G	W	58	54	57	53	58	55	57	53	-1.3	-1.4	-1.3	-1.4	60	55	NO	NO	NO
16	16_0257		Residential	1	W	60	56	59	55	60	56	59	55	-1.1	-1.1	-1	-1.1	60	55	NO	NO	NO
16	16_0258		Residential	G	W	55	51	55	51	56	52	56	52	0.1	0.3	0.1	0	60	55	NO	NO	NO
16	16_0258		Residential	1	W	59	54	59	54	59	55	59	55	-0.2	0	-0.2	-0.3	60	55	NO	NO	NO
16	16_0259		Residential	G	SW	57	53	56	52	58	54	56	52	-1.2	-1.2	-1.2	-1.3	60	55	NO	NO	NO
16	16_0259		Residential	1	SW	59	55	58	54	60	56	59	55	-0.9	-0.9	-0.9	-1.1	60	55	NO	NO	NO
16	16_0260		Residential	G	W	56	52	54	50	56	52	55	51	-1.4	-1.3	-1.3	-1.4	60	55	NO	NO	NO
16	16_0260		Residential	1	W	56	52	55	51	56	53	55	51	-1.4	-1.3	-1.3	-1.4	60	55	NO	NO	NO
16	16_0261		Residential	G	W	57	53	56	52	57	53	57	53	-0.7	-0.5	-0.6	-0.7	60	55	NO	NO	NO
16	16_0262		Residential	G	W	56	52	56	52	57	52	56	52	-0.1	0	-0.2	-0.2	60	55	NO	NO	NO
16	16_0263		Residential	G	NE	57	53	56	52	58	54	56	52	-1.6	-1.4	-1.5	-1.5	60	55	NO	NO	NO
16	16_0263		Residential	1	SW	60	56	60	55	60	56	60	56	-0.3	-0.2	-0.3	-0.4	60	55	NO	NO	NO
16	16_0264		Residential	G	NW	60	56	58	54	60	56	59	55	-1.7	-1.6	-1.6	-1.8	60	55	NO	NO	NO
16	16_0264		Residential	1	NW	61	57	59	56	61	58	60	56	-1.5	-1.3	-1.4	-1.6	60	55	NO	NO	NO
16	16_0265		Residential	G	NW	61	57	60	56	62	58	60	56	-1.5	-1.2	-1.3	-1.4	60	55	NO	NO	NO
16	16_0265		Residential	1	NW	63	59	62	58	63	59	62	59	-1	-0.7	-0.8	-0.9	60	55	NO	NO	YES
16	16_0266		Residential	G	NW	52	48	52	48	53	49	53	49	-0.1	0.1	0	0	60	55	NO	NO	NO
16	16_0266		Residential	1	NW	61	57	59	55	62	58	60	56	-1.8	-1.7	-1.6	-1.8	60	55	NO	NO	NO
16	16_0267		Residential	G	W	60	56	58	54	61	57	59	55	-2.1	-1.9	-1.9	-2.1	60	55	NO	NO	NO
16	16_0267		Residential	1	W	62	58	60	56	62	58	60	56	-1.8	-1.7	-1.6	-1.8	60	55	NO	NO	NO
16	16_0268		Residential	G	W	61	57	59	55	62	58	60	56	-1.7	-1.5	-1.6	-1.8	60	55	NO	NO	NO
16	16_0268		Residential	1	W	63	59	62	58	64	60	63	59	-1.1	-0.9	-1.1	-1.1	60	55	NO	NO	YES
16	16_0269		Residential	G	W	63	59	62	58	63	59	63	59	-0.4	-0.2	-0.3	-0.3	60	55	NO	NO	NO
16	16_0269		Residential	1	W	65	61	65	61	66	62	65	61	-0.4	-0.2	-0.3	-0.4	60	55	YES	YES	YES
16	16_0270		Residential	G	N	59	55	58	54	59	55	59	55	-0.7	-0.5	-0.7	-0.6	60	55	NO	NO	NO
16	16_0270		Residential	1	W	62	58	61	57	62	58	61	57	-1.2	-0.9	-1	-1	60	55	NO	NO	NO
16	16_0271		Residential	G	W	65	61	65	61	65	62	65	61	-0.2	0.1	-0.1	-0.1	60	55	YES	YES	YES
16	16_0271		Residential	1	W	67	63	66	62	67	63	67	63	-0.3	-0.1	-0.1	-0.2	60	55	YES	YES	YES
16	16_0272		Residential	G	W	65	61	65	61	65	61	65	61	-0.1	0.2	0.1	0	60	55	YES	YES	YES
16	16_0272		Residential	1	W	66	62	66	62	67	63	67	63	-0.1	0.2	0	0	60	55	YES	YES	YES
16	16_0273		Residential	G	SW	62	58	62	58	63	59	63	59	0	0.1	0	-0.1	60	55	NO	NO	NO
16	16_0274		Residential	G	W	68	64	68	64	69	65	68	64	-0.4	-0.2	-0.3	-0.4	60	55	YES	YES	YES
16	16_0274		Residential	1	W	70	66	70	66	70	67	70	67	-0.1	0.2	0	-0.1	60	55	YES	YES	YES
16	16_0275		Residential	G	W	65	61	65	61	65	62	66	62	0.1	0.3	0.2	0.1	60	55	YES	YES	YES
16	16_0275		Residential	1	W	68	64	68	64	68	65	68	64	-0.2	0	-0.1	-0.2	60	55	YES	YES	YES

NCA	NCA ID	Receiver Description	Receiver Type	Facade		Opening Year				Design Year				Increase (Build - No Build)				NCG project road noise criteria		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening Year		Design Year						
				Floor	Orientation	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day ≥ 65dB LAeq,15h	Night ≥ 60dB LAeq,9h			
16	16_0276		Residential	G	W	68	63	67	63	68	64	68	64	-0.4	-0.2	-0.4	-0.5	60	55	YES	YES	YES
16	16_0277		Residential	G	W	68	64	67	63	68	64	68	64	-0.5	-0.4	-0.5	-0.7	60	55	YES	YES	YES
16	16_0278		Residential	G	W	67	63	66	62	68	64	67	63	-0.9	-0.7	-0.8	-0.9	60	55	YES	YES	YES
16	16_0279		Residential	G	W	65	61	64	60	66	62	65	61	-1	-0.8	-0.9	-1	60	55	YES	YES	YES
16	16_0279		Residential	1	W	68	63	67	63	68	64	67	63	-0.9	-0.8	-0.8	-1.1	60	55	YES	YES	YES
16	16_0280		Residential	G	NW	65	61	64	60	66	62	65	61	-1	-0.8	-0.9	-1.1	60	55	NO	YES	YES
16	16_0281		Residential	G	NW	64	60	62	58	64	60	62	58	-2.1	-2.1	-2.1	-2.3	60	55	NO	NO	YES
16	16_0282		Residential	G	NW	62	58	59	55	62	58	60	56	-2.5	-2.4	-2.4	-2.6	60	55	NO	NO	NO
16	16_0282		Residential	1	NW	64	60	61	58	65	61	62	58	-2.8	-2.6	-2.7	-2.9	60	55	NO	NO	YES
16	16_0283		Residential	G	NW	61	57	57	54	61	58	58	54	-3.4	-3.3	-3.3	-3.5	60	55	NO	NO	NO
16	16_0284		Residential	G	NW	62	58	58	55	62	58	59	55	-3.2	-3.1	-3.1	-3.3	60	55	NO	NO	NO
16	16_0285		Residential	G	NW	61	57	57	53	61	57	58	54	-3.4	-3.3	-3.3	-3.5	60	55	NO	NO	NO
16	16_0286		Residential	G	NW	58	54	55	52	59	55	56	52	-3	-2.8	-2.9	-3	60	55	NO	NO	NO
16	16_0286		Residential	1	NW	61	57	58	54	61	58	58	55	-3.1	-3	-3	-3.2	60	55	NO	NO	NO
16	16_0287		Residential	G	NW	59	55	57	53	60	56	58	54	-2.2	-1.9	-2	-2.2	60	55	NO	NO	NO
16	16_0288		Residential	G	N	58	54	54	50	58	54	55	51	-3.5	-3.4	-3.4	-3.7	60	55	NO	NO	NO
16	16_0288		Residential	1	W	62	58	58	54	62	58	59	55	-3.6	-3.5	-3.6	-3.8	60	55	NO	NO	NO
16	16_0289		Residential	G	N	60	56	56	52	60	56	57	53	-3.5	-3.4	-3.5	-3.6	60	55	NO	NO	NO
16	16_0290		Residential	G	W	61	57	56	52	61	58	57	53	-4.9	-4.7	-4.9	-5	60	55	NO	NO	NO
16	16_0290		Residential	1	W	63	59	59	55	64	60	59	55	-4.5	-4.4	-4.5	-4.7	60	55	NO	NO	NO
16	16_0291		Residential	G	W	61	57	56	52	62	58	57	53	-4.6	-4.5	-4.6	-4.7	60	55	NO	NO	NO
16	16_0292		Residential	G	W	60	56	56	52	61	57	57	53	-3.7	-3.5	-3.7	-3.8	60	55	NO	NO	NO
16	16_0292		Residential	1	W	62	58	59	55	63	59	59	55	-3.9	-3.8	-3.9	-4.1	60	55	NO	NO	NO
16	16_0293		Residential	G	W	60	56	57	53	60	57	58	54	-2.7	-2.6	-2.7	-2.9	60	55	NO	NO	NO
16	16_0293		Residential	1	W	62	58	60	56	63	59	60	56	-2.9	-2.8	-2.9	-3.1	60	55	NO	NO	NO
16	16_0294		Residential	G	NW	67	63	66	62	68	64	67	63	-1.2	-1	-1.2	-1.3	60	55	YES	YES	YES
16	16_0295		Residential	G	SW	67	63	66	62	68	64	66	62	-1.4	-1.3	-1.5	-1.6	60	55	YES	YES	YES
16	16_0296		Residential	G	W	68	64	65	61	68	64	66	62	-2.5	-2.5	-2.6	-2.9	60	55	YES	YES	YES
16	16_0297		Residential	G	W	67	63	63	59	68	64	64	60	-3.4	-3.4	-3.6	-3.8	60	55	NO	NO	YES
16	16_0297		Residential	1	W	69	65	65	61	70	66	66	62	-3.6	-3.7	-3.7	-4	60	55	YES	YES	YES
16	16_0298		Residential	G	W	66	61	61	57	66	62	62	58	-4.2	-4.1	-4.4	-4.5	60	55	NO	NO	YES
16	16_0299		Residential	G	W	65	61	60	56	66	62	61	57	-5	-4.9	-5.2	-5.4	60	55	NO	NO	YES
16	16_0300		Residential	G	W	63	59	57	53	64	60	58	54	-6.1	-5.9	-6.2	-6.3	60	55	NO	NO	NO
16	16_0301		Residential	G	W	65	60	59	55	65	61	59	55	-5.6	-5.5	-5.9	-6	60	55	NO	NO	NO
16	16_0302		Residential	G	W	64	60	58	54	65	61	59	55	-5.8	-5.6	-6	-6.1	60	55	NO	NO	NO
16	16_0303		Residential	G	E	59	55	57	53	60	56	58	54	-1.7	-1.5	-1.8	-1.8	60	55	NO	NO	NO
16	16_0304		Residential	G	N	65	60	59	55	65	61	60	55	-5.6	-5.4	-5.8	-5.9	60	55	NO	NO	NO
16	16_0305		Residential	G	W	63	59	58	54	63	59	59	55	-4.5	-4.2	-4.6	-4.6	60	55	NO	NO	NO
16	16_0306		Residential	G	W	62	58	58	54	62	58	58	54	-4	-3.8	-4	-4.1	60	55	NO	NO	NO
16	16_0307		Residential	G	N	61	57	57	53	61	57	58	54	-3.6	-3.4	-3.6	-3.7	60	55	NO	NO	NO
16	16_0308		Residential	G	NW	61	56	57	53	61	57	58	54	-3.4	-3.1	-3.3	-3.4	60	55	NO	NO	NO
16	16_0309		Residential	G	W	59	55	57	53	60	56	57	53	-2.4	-2.1	-2.4	-2.4	60	55	NO	NO	NO
16	16_0310		Residential	G	W	60	56	57	53	60	57	57	53	-3.2	-3	-3.2	-3.3	60	55	NO	NO	NO
16	16_0311		Residential	G	N	58	54	56	52	59	55	56	53	-2.2	-1.9	-2.2	-2.2	60	55	NO	NO	NO
16	16_0312		Residential	G	N	58	54	56	52	58	54	56	52	-2	-1.9	-2	-2	60	55	NO	NO	NO
16	16_0313		Residential	G	W	58	54	55	51	58	55	56	52	-2.7	-2.5	-2.6	-2.8	60	55	NO	NO	NO
16	16_0314		Residential	G	W	58	54	56	52	59	55	56	52	-2.6	-2.5	-2.5	-2.6	60	55	NO	NO	NO
16	16_0315		Residential	G	NW	58	54	56	52	59	55	56	52	-2.5	-2.4	-2.5	-2.7	60	55	NO	NO	NO
16	16_0316		Residential	G	W	59	55	56	52	59	55	57	53	-2.4	-2.2	-2.2	-2.4	60	55	NO	NO	NO
16	16_0317		Residential	G	W	58	54	56	53	58	55	57	53	-1.5	-1.2	-1.5	-1.5	60	55	NO	NO	NO
16	16_0318		Residential	G	NW	58	54	56	52	58	55	57	53	-1.9	-1.7	-1.8	-1.9	60	55	NO	NO	NO
16	16_0318		Residential	1	NW	60	56	58	54	61	57	58	55	-2.5	-2.4	-2.4	-2.6	60	55	NO	NO	NO
16	16_0319		Residential	G	NW	59	55	57	53	60	56	58	54	-2.2	-2.1	-2.1	-2.3	60	55	NO	NO	NO
16	16_0319		Residential	1	NW	61	57	59	55	62	58	59	55	-2.5	-2.4	-2.4	-2.6	60	55	NO	NO	NO
16	16_0320		Residential	G	NW	60	56	58	54	60	57	59	55	-2	-1.8	-1.9	-2.1	60	55	NO	NO	NO
16	16_0321		Residential	G	NW	57	53	55	51	58	54	56	52	-2.4	-2.3	-2.3	-2.5	60	55	NO	NO	NO
16	16_0321		Residential	1	NW	60	56	57	53	60	56	58	54	-2.2	-2.1	-2	-2.2	60	55	NO	NO	NO

NCA	NCA ID	Receiver Description	Receiver Type	Facade		Opening Year				Design Year				Increase (Build - No Build)				NCG project road noise criteria		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening Year		Design Year						
				Floor	Orientation	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day dB(A)	Night dB(A)	Day ≥ 65dB LAeq,15h	Night ≥ 60dB LAeq,9h	
16	16_0322		Residential	G	W	58	54	56	52	58	55	57	53	-1.9	-1.7	-1.7	-1.9	60	55	NO	NO	NO
16	16_0322		Residential	1	N	59	55	57	53	59	56	58	54	-2	-1.8	-1.8	-2	60	55	NO	NO	NO
16	16_0323		Residential	G	N	57	53	55	51	57	54	55	51	-2.2	-2.1	-2.1	-2.3	60	55	NO	NO	NO
16	16_0323		Residential	1	N	59	55	56	52	59	55	57	53	-2.4	-2.2	-2.2	-2.4	60	55	NO	NO	NO
16	16_0324		Residential	G	N	55	51	53	49	55	51	53	49	-2.1	-2	-1.9	-2.1	60	55	NO	NO	NO
16	16_0324		Residential	1	N	57	53	55	51	57	54	55	51	-2.2	-2.2	-2.1	-2.3	60	55	NO	NO	NO
16	16_0325		Residential	G	N	54	50	52	48	55	51	52	48	-2.6	-2.5	-2.5	-2.6	60	55	NO	NO	NO
16	16_0325		Residential	1	N	57	53	55	51	57	54	55	51	-2.3	-2.2	-2.1	-2.4	60	55	NO	NO	NO
16	16_0326		Residential	G	N	55	51	53	49	55	52	53	49	-2.2	-2.1	-2	-2.2	60	55	NO	NO	NO
16	16_0327		Residential	G	N	54	50	53	49	55	51	53	49	-1.5	-1.4	-1.4	-1.6	60	55	NO	NO	NO
16	16_0327		Residential	1	N	57	53	55	51	57	53	55	51	-1.9	-1.8	-1.8	-2	60	55	NO	NO	NO
16	16_0328		Residential	G	N	56	52	54	50	56	52	54	51	-1.6	-1.5	-1.5	-1.6	60	55	NO	NO	NO
16	16_0328		Residential	1	N	57	53	55	51	57	53	55	51	-2	-1.9	-1.8	-2.1	60	55	NO	NO	NO
16	16_0329		Residential	G	N	55	51	53	49	55	52	54	50	-1.8	-1.7	-1.7	-1.8	60	55	NO	NO	NO
16	16_0329		Residential	1	N	56	52	54	50	57	53	55	51	-1.9	-1.8	-1.7	-1.9	60	55	NO	NO	NO
16	16_0330		Residential	G	N	54	50	52	48	54	50	53	49	-1.3	-1.3	-1.3	-1.3	60	55	NO	NO	NO
16	16_0330		Residential	1	N	55	51	53	50	55	52	54	50	-1.7	-1.5	-1.5	-1.7	60	55	NO	NO	NO
16	16_0331		Residential	G	N	56	52	54	50	56	52	54	50	-1.9	-1.8	-1.8	-1.9	60	55	NO	NO	NO
16	16_0332		Residential	G	N	55	51	54	50	56	52	54	50	-1.7	-1.6	-1.6	-1.7	60	55	NO	NO	NO
16	16_0332		Residential	1	W	57	53	55	51	57	53	55	51	-2	-1.9	-1.9	-2.1	60	55	NO	NO	NO
16	16_0333		Residential	G	N	56	52	53	49	56	52	54	50	-2.4	-2.3	-2.3	-2.4	60	55	NO	NO	NO
16	16_0333		Residential	1	N	57	53	55	51	57	54	55	52	-2.1	-1.9	-1.9	-2.1	60	55	NO	NO	NO
16	16_0334		Residential	G	NW	57	53	55	51	57	53	56	52	-1.7	-1.5	-1.6	-1.7	60	55	NO	NO	NO
16	16_0334		Residential	1	NW	58	54	56	52	58	54	56	52	-2	-1.9	-1.9	-2.1	60	55	NO	NO	NO
16	16_0335		Residential	G	W	56	52	54	50	56	53	54	50	-2.4	-2.1	-2.2	-2.4	60	55	NO	NO	NO
16	16_0336		Residential	G	W	56	52	54	50	57	53	55	51	-2.2	-1.9	-2	-2.2	60	55	NO	NO	NO
16	16_0336		Residential	1	W	57	53	55	51	58	54	55	52	-2.3	-2.2	-2.2	-2.4	60	55	NO	NO	NO
16	16_0337		Residential	G	N	56	52	54	50	56	52	55	51	-1.8	-1.6	-1.7	-1.8	60	55	NO	NO	NO
16	16_0337		Residential	1	W	59	55	56	53	59	55	57	53	-2.4	-2.2	-2.3	-2.4	60	55	NO	NO	NO
16	16_0338		Residential	G	W	57	53	55	51	57	54	55	51	-2.1	-2	-2	-2.1	60	55	NO	NO	NO

APPENDIX G **Properties to be considered for treatment**



Legend Existing noise wall Proposed noise wall Considered for treatment (single storey dwelling) Considered for treatment (double storey dwelling) Considered for treatment (other sensitive receiver)	Consultant: RENZO TONIN & ASSOCIATES inspired to achieve Acoustics, Vibration & Structural Dynamics Sydney Melbourne Brisbane Gold Coast Kuwait 1/418A Elizabeth Street, SURRY HILLS NSW 2010 P: 02 8218 0500 F: 02 8218 0501	Client: NSW GOVERNMENT Transport Roads & Maritime Services	Project: ALBION PARK RAIL BYPASS	Description: RECEIVERS CONSIDERED FOR TREATMENT WITH MITIGATION NCA 1-2			
			Noise levels are approximate due to interpolation of contours and should be used for reference only. For information only and not for construction. This information is protected by copyright.	Project No.:	TH508-03	Created by:	rp
				Fig Ref:	TH508-03.5.T10.01.01 (r3)	Grid:	-
				Date:	2017.06.21	Scale:	1: 6500 A3



Legend Existing noise wall Proposed noise wall Considered for treatment (single storey dwelling) Considered for treatment (double storey dwelling) Considered for treatment (other sensitive receiver)	Consultant: RENZO TONIN & ASSOCIATES inspired to achieve Acoustics, Vibration & Structural Dynamics Sydney Melbourne Brisbane Gold Coast Kuwait 1/418A Elizabeth Street, SURRY HILLS NSW 2010 P: 02 8218 0500 F: 02 8218 0501	Client: NSW GOVERNMENT Transport Roads & Maritime Services	Project: ALBION PARK RAIL BYPASS	Description: RECEIVERS CONSIDERED FOR TREATMENT WITH MITIGATION NCA 3-4	
			Noise levels are approximate due to interpolation of contours and should be used for reference only. For information only and not for construction. This information is protected by copyright.	Project No.: TH508-03	Created by: RP
				Fig Ref: TH508-03.5.T10.01.02 (r3)	Grid: -
				Date: 2017.06.21	Scale: 1: 6500 A3



Legend Existing noise wall Proposed noise wall Considered for treatment (single storey dwelling) Considered for treatment (double storey dwelling) Considered for treatment (other sensitive receiver)	Consultant: RENZO TONIN & ASSOCIATES inspired to achieve Acoustics, Vibration & Structural Dynamics Sydney Melbourne Brisbane Gold Coast Kuwait 1/418A Elizabeth Street, SURRY HILLS NSW 2010 P: 02 8218 0500 F: 02 8218 0501	Client: NSW GOVERNMENT Transport Roads & Maritime Services	Project: ALBION PARK RAIL BYPASS	Description: RECEIVERS CONSIDERED FOR TREATMENT WITH MITIGATION NCA 5-9

Noise levels are approximate due to interpolation of contours and should be used for reference only.
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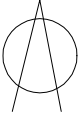
Project No.:	TH508-03	Created by:	RP
Fig Ref:	TH508-03.5.T10.01.03 (r3)	Grid:	-
Date:	2017.06.21	Scale:	1: 6500 A3



Legend Existing noise wall Proposed noise wall Considered for treatment (single storey dwelling) Considered for treatment (double storey dwelling) Considered for treatment (other sensitive receiver)	Consultant: RENZO TONIN & ASSOCIATES inspired to achieve Acoustics, Vibration & Structural Dynamics Sydney Melbourne Brisbane Gold Coast Kuwait 1/418A Elizabeth Street, SURRY HILLS NSW 2010 P: 02 8218 0500 F: 02 8218 0501	Client: NSW GOVERNMENT Transport Roads & Maritime Services	Project: ALBION PARK RAIL BYPASS	Description: RECEIVERS CONSIDERED FOR TREATMENT WITH MITIGATION NCA 10	
			Noise levels are approximate due to interpolation of contours and should be used for reference only. For information only and not for construction. This information is protected by copyright.	Project No.: TH508-03	Created by: RP
				Fig Ref: TH508-03.5.T10.01.04 (r3)	Grid: -
				Date: 2017.06.21	Scale: 1: 6500 A3



NCA 11

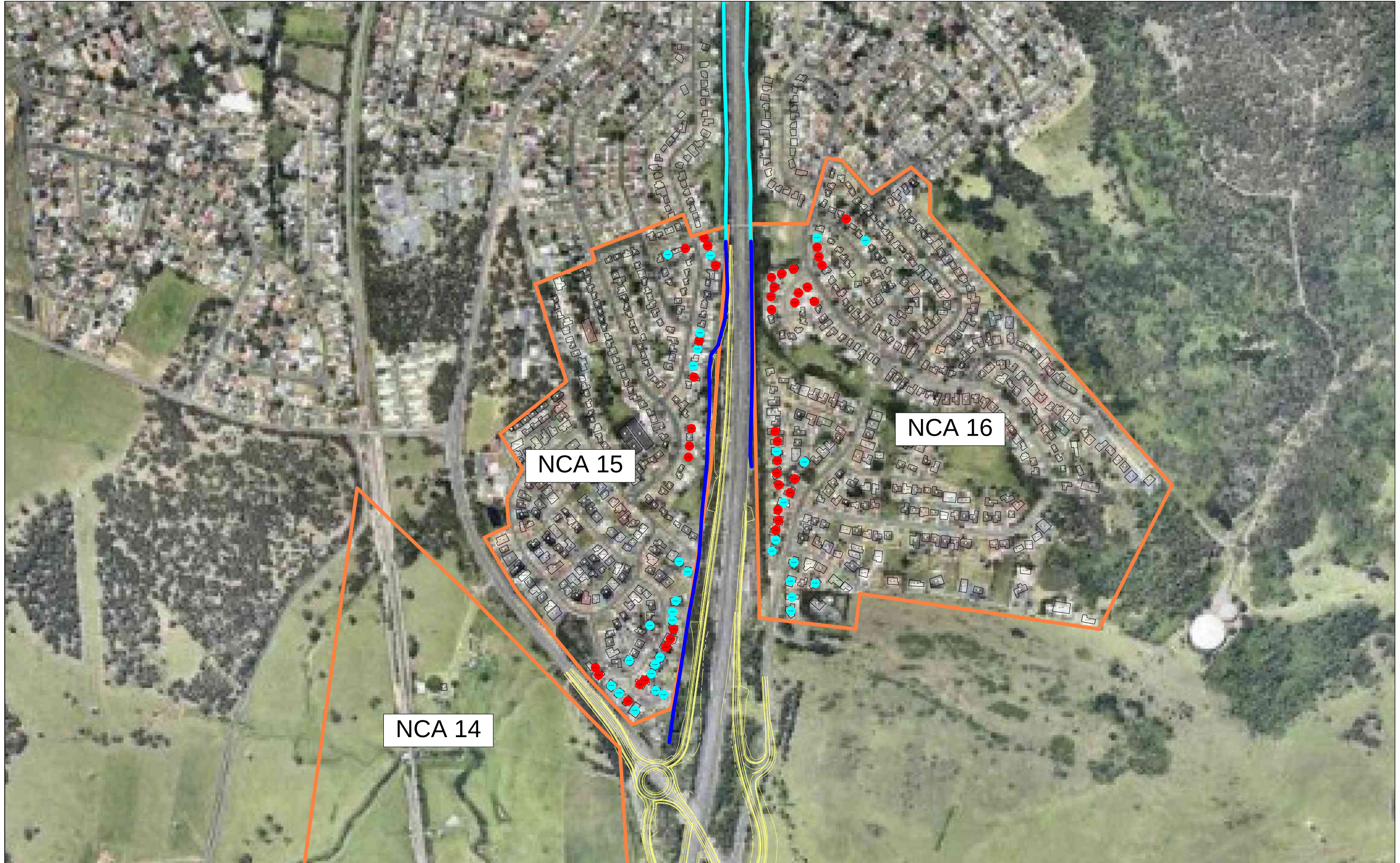
Legend - Existing noise wall - Proposed noise wall - Considered for treatment (single storey dwelling) - Considered for treatment (double storey dwelling) - Considered for treatment (other sensitive receiver) 	Consultant: RENZO TONIN & ASSOCIATES <i>inspired to achieve</i> Acoustics, Vibration & Structural Dynamics Sydney Melbourne Brisbane Gold Coast Kuwait 1/418A Elizabeth Street, SURRY HILLS NSW 2010 P: 02 8218 0500 F: 02 8218 0501	Client:  Transport Roads & Maritime Services	Project: ALBION PARK RAIL BYPASS Noise levels are approximate due to interpolation of contours and should be used for reference only. For information only and not for construction. This information is protected by copyright.	Description: RECEIVERS CONSIDERED FOR TREATMENT WITH MITIGATION NCA 11
			Project No.: TH508-03 Fig Ref: TH508-03.5.T10.01.05 (r3) Date: 2017.06.21	Created by: RP Grid: - Scale: 1: 6500 A3



Legend Existing noise wall Proposed noise wall Considered for treatment (single storey dwelling) Considered for treatment (double storey dwelling) Considered for treatment (other sensitive receiver)	Consultant: RENZO TONIN & ASSOCIATES inspired to achieve Acoustics, Vibration & Structural Dynamics Sydney Melbourne Brisbane Gold Coast Kuwait 1/418A Elizabeth Street, SURRY HILLS NSW 2010 P: 02 8218 0500 F: 02 8218 0501	Client: NSW GOVERNMENT Transport Roads & Maritime Services	Project: ALBION PARK RAIL BYPASS	Description: RECEIVERS CONSIDERED FOR TREATMENT WITH MITIGATION NCA 12-13			
			Noise levels are approximate due to interpolation of contours and should be used for reference only. For information only and not for construction. This information is protected by copyright.	Project No.:	TH508-03	Created by:	RP
				Fig Ref:	TH508-03.5.T10.01.06 (r3)	Grid:	-
				Date:	2017.06.21	Scale:	1: 6500 A3



Legend Existing noise wall Proposed noise wall Considered for treatment (single storey dwelling) Considered for treatment (double storey dwelling) Considered for treatment (other sensitive receiver)	Consultant: RENZO TONIN & ASSOCIATES inspired to achieve Acoustics, Vibration & Structural Dynamics Sydney Melbourne Brisbane Gold Coast Kuwait 1/418A Elizabeth Street, SURRY HILLS NSW 2010 P: 02 8218 0500 F: 02 8218 0501	Client: NSW GOVERNMENT Transport Roads & Maritime Services	Project: ALBION PARK RAIL BYPASS	Description: RECEIVERS CONSIDERED FOR TREATMENT WITH MITIGATION NCA 14	
			Noise levels are approximate due to interpolation of contours and should be used for reference only. For information only and not for construction. This information is protected by copyright.	Project No.: TH508-03 Created by: RP	
				Fig Ref: TH508-03.5.T10.01.07 (r3)	Grid: -
				Date: 2017.06.21	Scale: 1: 6500 A3

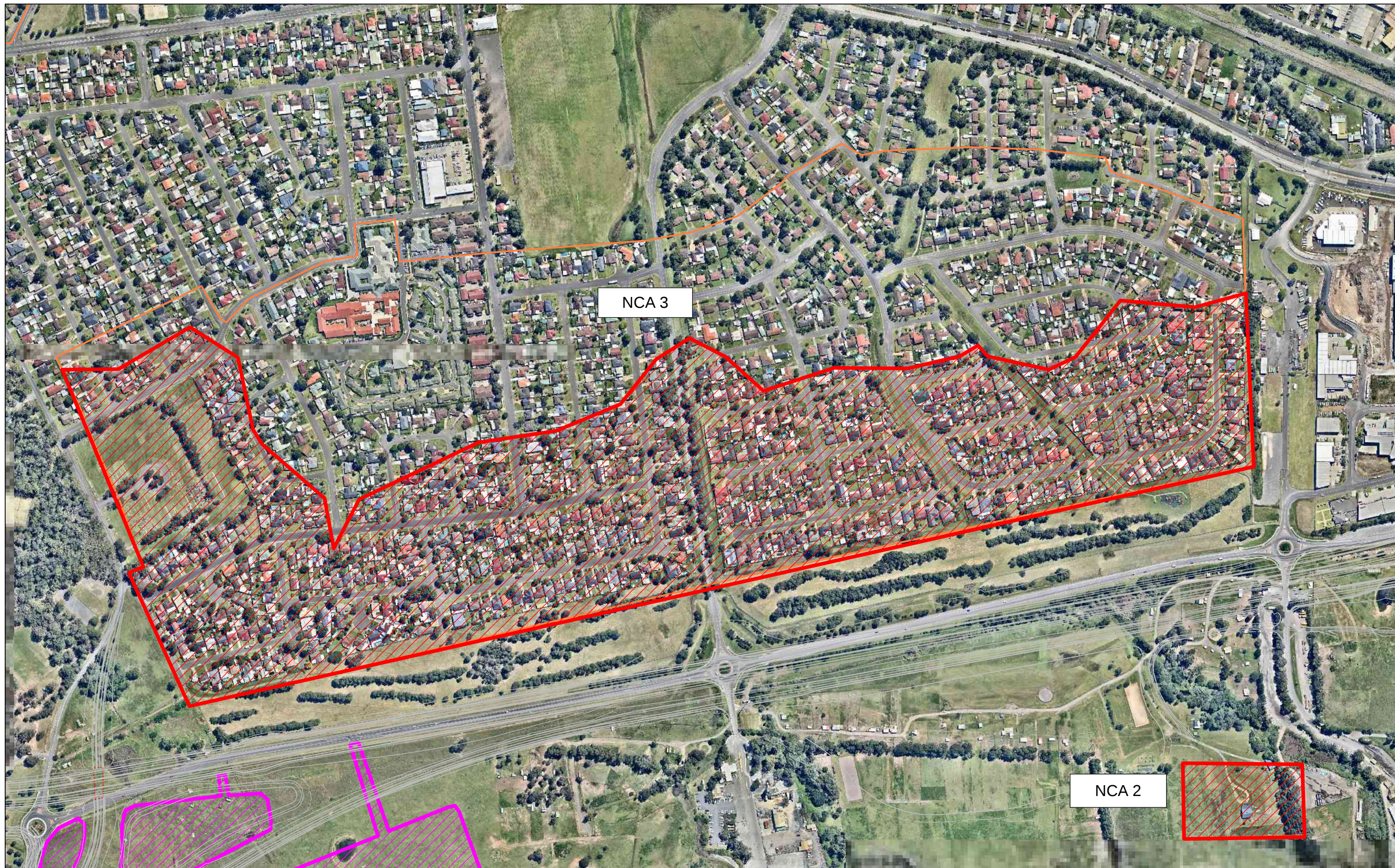


Legend Existing noise wall Proposed noise wall Considered for treatment (single storey dwelling) Considered for treatment (double storey dwelling) Considered for treatment (other sensitive receiver)	Consultant: RENZO TONIN & ASSOCIATES inspired to achieve Acoustics, Vibration & Structural Dynamics Sydney Melbourne Brisbane Gold Coast Kuwait 1/418A Elizabeth Street, SURRY HILLS NSW 2010 P: 02 8218 0500 F: 02 8218 0501	Client: NSW GOVERNMENT Transport Roads & Maritime Services	Project: ALBION PARK RAIL BYPASS	Description: RECEIVERS CONSIDERED FOR TREATMENT WITH MITIGATION NCA 15-16	
			Noise levels are approximate due to interpolation of contours and should be used for reference only. For information only and not for construction. This information is protected by copyright.	Project No.: TH508-03	Created by: RP
				Fig Ref: TH508-03.5.T10.01.08 (r3)	Grid: -
				Date: 2017.06.21	Scale: 1: 6500 A3

APPENDIX H Extended hours - noise affected properties

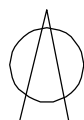


Legend: Construction compound Noise Catchment Area Area of impact 	Consultant:  RENZO TONIN & ASSOCIATES inspired to achieve Acoustics, Vibration & Structural Dynamics Sydney Melbourne Brisbane Gold Coast Kuwait 1/418A Elizabeth Street, SURRY HILLS NSW 2010 P: 02 8218 0500 F: 02 8218 0501 Client:  Transport Roads & Maritime Services Project: ALBION PARK RAIL BYPASS Noise levels are approximate due to interpolation of contours and should be used for reference only. For information only and not for construction. This information is protected by copyright. Description: CONSTRUCTION NOISE IMPACTS DURING EXTENDED HOURS NCA 1 <table><tr><td>Project No.:</td><td>TH508-01</td><td>Created by:</td><td>rp</td></tr><tr><td>Fig Ref:</td><td>TH508-01.5.C2.P09 (r0)</td><td>Grid:</td><td>02C1</td></tr><tr><td>Date:</td><td>2015.10.22</td><td>Scale:</td><td>1: 5000 A3</td></tr></table>	Project No.:	TH508-01	Created by:	rp	Fig Ref:	TH508-01.5.C2.P09 (r0)	Grid:	02C1	Date:	2015.10.22	Scale:	1: 5000 A3
Project No.:	TH508-01	Created by:	rp										
Fig Ref:	TH508-01.5.C2.P09 (r0)	Grid:	02C1										
Date:	2015.10.22	Scale:	1: 5000 A3										



Legend:

-  Construction compound
-  Noise Catchment Area
-  Area of impact



Consultant:

RENZO TONIN & ASSOCIATES
inspired to achieve

Acoustics, Vibration & Structural Dynamics
Sydney Melbourne Brisbane Gold Coast Kuwait
1/418A Elizabeth Street, SURRY HILLS NSW 2010
P: 02 8218 0500 F: 02 8218 0501

Client:



Transport
Roads & Maritime
Services

Project:

ALBION PARK RAIL BYPASS

Noise levels are approximate due to interpolation of contours and should be used for reference only.
For information only and not for construction.
This information is protected by copyright.

Description:

CONSTRUCTION NOISE IMPACTS
DURING EXTENDED HOURS
NCA 2 & NCA 3

Project No.: TH508-01

Fig Ref: TH508-01.5.C2.P10 (r0)

Date: 2015.10.22

Created by: rp

Grid: 02C1

Scale: 1: 5000 A3



Legend:

- Construction compound
- Noise Catchment Area
- Area of impact

Consultant:

RENZO TONIN & ASSOCIATES
inspired to achieve

Acoustics, Vibration & Structural Dynamics
Sydney Melbourne Brisbane Gold Coast Kuwait
P: 02 8218 0500 F: 02 8218 0501

Client:

Transport Roads & Maritime Services

Project:

ALBION PARK RAIL BYPASS

Noise levels are approximate due to interpolation of contours and should be used for reference only.
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Description:

**CONSTRUCTION NOISE IMPACTS DURING EXTENDED HOURS
NCA 4 & NCA 5 SOUTH**

Project No.:	TH508-01	Created by:	rp
Fig Ref:	TH508-01.5.C2.P11 (r0)	Grid:	02C1
Date:	2015.10.22	Scale:	1: 5000 A3