

APPENDIX B NCG criteria maps



NCG Criteria 55dB(A) Day, 50dB(A) Night 56dB(A) Day, 51dB(A) Night 57dB(A) Day, 52dB(A) Night 58dB(A) Day, 53dB(A) Night 59dB(A) Day, 54dB(A) Night 60dB(A) Day, 55dB(A) Night Other sensitive receiver



NGC Criteria 55dB(A) Day, 50dB(A) Night 56dB(A) Day, 51dB(A) Night 57dB(A) Day, 52dB(A) Night 58dB(A) Day, 53dB(A) Night 59dB(A) Day, 54dB(A) Night 60dB(A) Day, 55dB(A) Night 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: 	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: NCG CRITERIA NORTHERN REGION <table><tr><td>Project No.:</td><td>TH508-01</td><td>Created by:</td><td>RP</td></tr><tr><td>Fig Ref:</td><td>TH508-01.5.3.2.4.09 (r0)</td><td>Grid:</td><td>-</td></tr><tr><td>Date:</td><td>2015.07.31</td><td>Scale:</td><td>1: 20000 A3</td></tr></table>	Project No.:	TH508-01	Created by:	RP	Fig Ref:	TH508-01.5.3.2.4.09 (r0)	Grid:	-	Date:	2015.07.31	Scale:	1: 20000 A3
Project No.:	TH508-01	Created by:	RP													
Fig Ref:	TH508-01.5.3.2.4.09 (r0)	Grid:	-													
Date:	2015.07.31	Scale:	1: 20000 A3													

APPENDIX C **Traffic data**

Albion Park Rail Bypass Project

Project traffic data

Existing scenario

Road label	Description	Direction	Existing year 2015			
			Day		Night	
			Volume	HV%	Volume	HV%
Site 01	Princes Highway, 100m west from the northbound exit ramp	EB	6583	4.6	629	5.7
		WB	6664	4.7	599	4.6
Site 02	Princes Highway, 100m east from the northbound exit ramp	EB	7415	4.1	711	4.9
Site 03	Princes Motorway, NB exit ramp, 50m from the Princes Highway	NB	7344	4.0	641	4.6
Site 04	Princes Motorway, south of Princes Highway overbridge	NB	19245	7.3	3385	9.1
		SB	27528	7.5	2860	12.9
Site 05	Princes Highway 70m north from the Creek Bridge	NB	26453	6.6	3997	8.7
		SB	28170	5.7	2950	11.0
Site 06	Illawarra Highway 380m north of Taylor Road	NB	6666	5.1	1260	6.0
		SB	7003	3.7	639	5.8
Site 07	Tongarra Road 580m west of Croome Road	EB	5824	4.2	404	7.4
		WB	5759	3.8	392	5.8
Site 08	Grevillea Street, 50m south of Oak Street intersection	NB	448	4.5	32	4.5
		SB	454	4.4	37	3.2
Site 09	Croome Road 60m south of the Grevillea Street intersection	NB	2096	1.5	167	2.5
		SB	1661	1.8	110	4.8
Site 10	Croome Road 280m south of the East-West Link roundabout	EB	4593	1.7	444	2.3
		WB	4983	2.1	327	3.8
Site 11	East-West Link 270m west of the Colden Drive roundabout	EB	6054	3.3	494	5.4
		WB	6687	3.2	404	6.8
Site 12	Princes Motorway before taper - Oak Flats interchange	NB	14801	7.8	1612	11.6
		SB	16792	6.7	1685	15.5
Site 13	Princes Highway 80m south of Nehme Avenue	NB	20058	8.6	2535	12.2
		SB	21559	6.4	2178	14.0
Site 14	Princes Highway 90m north of Kaylaur Crescent	NB	17512	9.5	2507	12.9
		SB	18882	7.7	2001	15.8

Road label	Description	Direction	Existing year 2015			
			Day		Night	
			Volume	HV%	Volume	HV%
Site 15	Yallah Road, before the hairpin bend in proximity to the Princes Highway	EB	459	6.8	46	8.9
		WB	466	5.8	49	4.5
NL1	New Lakes Entrance Road, 50m from Oak Flats roundabout	NB	19876	12.1	2874	15.1
		SB	22186	9.9	2366	17.8
PH11	Princes Highway at Oak Flats interchange northbound	NB	19876	12.1	2874	15.1
		SB	22186	9.9	2366	17.8
RB1	Oak Flats Interchange Princes Highway SB exit ramp	SB	22186	9.9	2366	17.8
RB2	Oak Flats Interchange Princes Highway NB entry ramp	NB	19876	12.1	2874	15.1
RB3	Oak Flats Interchange Princes Motorway SB entry ramp	SB	17055	10.6	1827	20.0
RB4	Oak Flats Interchange Princes Highway NB exit ramp	NB	15757	12.2	2100	15.1
TS1	Terry Street, 50m south of Tongarra Road	NB	6892	7.1	1529	7.0
		SB	7485	5.6	665	7.5

Albion Park Rail Bypass Project

Project traffic data

No Build scenario

Road label	Description	Direction	Opening year 2020				Design year 2030			
			Day		Night		Day		Night	
			Volume	HV%	Volume	HV%	Volume	HV%	Volume	HV%
CR1	Croome Road, 100m south of Grevillea Street	NB	2063	4.3	173	5.0	2565	4.8	218	5.6
		SB	3599	4.9	238	7.1	4030	5.2	268	7.6
CR2	Croome Road, 200m south of East-West Link	NB	6156	4.2	656	4.8	7247	4.6	770	5.2
		SB	6261	4.0	392	6.0	7036	4.4	443	6.6
EW1	East-West Link west of Woollybutt Drive	EB	7354	4.8	657	7.3	8410	5.3	755	8.0
		WB	5890	4.4	353	8.2	6698	5.0	403	9.3
EW2	East-West Link east of Woollybutt Drive	EB	9416	4.9	842	7.4	10512	5.4	945	8.1
		WB	6501	4.6	391	8.6	7366	5.2	448	9.8
EW3	East West Link EB exit ramp	EB	9156	5.1	820	7.6	9794	5.6	881	8.4
EW4	East West Link EB entry ramp	WB	6358	4.6	382	8.7	7045	5.3	428	10.0
HB1	Haywards Bay Drive exit ramp M1	SB	1464	9.2	155	14.4	2812	10.6	303	16.4
HB2	Haywards Bay Drive entry ramp M1	SB	1772	5.4	184	8.7	3284	5.1	343	8.3
IH1	Illawarra Highway, 800m from Taylor Road	NB	9321	9.9	2066	9.7	10820	10.6	2399	10.4
		SB	10033	9.9	907	12.9	11503	11.0	1045	14.3
NL1	New Lakes Entrance Road, 50m from Oak Flats roundabout	NB	17395	7.6	2482	9.5	19353	7.7	2764	9.8
		SB	17264	6.7	1789	12.4	19573	6.9	2031	12.8
PH1	Princes Highway, 100m west from the northbound exit ramp	EB	7642	6.9	747	8.1	7650	6.2	747	7.3
		WB	8289	6.8	733	5.5	7701	6.1	682	4.9
PH10	Princes Highway, 400m south of Woollybutt Drive	NB	22029	7.1	3140	8.9	24091	7.1	3435	8.9
		SB	23701	8.0	2486	14.7	24982	8.0	2621	14.7
PH11	Princes Highway at Oak Flats interchange northbound	NB	13586	6.2	1931	7.9	14885	6.0	2114	7.6
		SB	16689	7.1	1737	13.2	17550	6.9	1822	12.8
PH12	Princes Motorway, 100m south of NB exit ramp Oak Flats interchange	NB	17214	6.8	2260	8.5	20061	6.8	2632	8.5
		SB	19727	6.8	2034	13.3	20478	6.1	2096	12.1
PH2	Princes Motorway, northbound exit ramp, 50m from Princess Highway	NB	9400	6.4	797	6.1	9169	5.7	776	5.4
PH3	Princes Highway, 350m south of Yallah Bay Road	EB	9982	6.6	980	7.4	9222	5.9	903	6.6
PH4	Princes Motorway at Tallawarra exit ramp	NB	26402	9.9	5550	10.3	29408	10.8	6184	11.2
PH5	Princes Motorway, 360m north of Haywards Bay Drive Bridge	NB	27198	9.8	4756	10.9	30290	10.7	5303	12.0
		SB	32495	9.9	3533	15.5	34545	10.7	3773	16.7
PH6	Princes Motorway, at Haywards Bay Drive Bridge	NB	25376	9.5	4435	10.7	26498	10.2	4636	11.4
		SB	31023	9.9	3374	15.5	31724	10.7	3468	16.7
PH7	Princes Highway, 100m north of Illawarra Highway	NB	26887	9.3	4697	10.4	29187	9.7	5103	10.9
		SB	32806	9.7	3561	15.2	35019	10.2	3813	16.0

Road label	Description	Direction	Opening year 2020				Design year 2030			
			Day		Night		Day		Night	
			Volume	HV%	Volume	HV%	Volume	HV%	Volume	HV%
PH8	Princes Highway 90m north of Kaylaur Crescent	NB	18410	8.5	3040	10.2	19107	8.5	3153	10.1
		SB	24410	9.0	2672	15.7	25335	9.1	2774	15.7
PH9	Princes Highway 80m south of Nehme Avenue	NB	21742	7.3	3102	9.2	23867	7.2	3404	9.1
		SB	24382	8.0	2561	14.7	25460	8.0	2672	14.7
RB1	Oak Flats Interchange Princes Highway SB exit ramp	SB	7373	9.8	784	17.7	8255	9.9	880	17.8
RB2	Oak Flats Interchange Princes Highway NB entry ramp	NB	8712	8.4	1243	10.6	9651	8.7	1380	11.0
RB3	Oak Flats Interchange Princes Motorway SB entry ramp	SB	3583	6.7	365	13.1	4390	5.9	447	11.7
RB4	Oak Flats Interchange Princes Highway NB exit ramp	NB	2951	7.8	385	9.7	3582	6.8	468	8.5
SF1	Princes Motorway, at Princes Highway / Tallawarra Bridge	NB	18669	11.5	3926	12.0	23046	12.7	4849	13.2
		SB	23449	11.4	2528	17.0	27662	12.2	2996	18.3
SF3	Princes Highway, 750m south of Yallah Bay Road	SB	32546	9.9	3480	15.0	34601	10.8	3718	16.2
TR1	Tongarra Road 150m west of Croome Road	EB	7619	5.6	552	9.0	8751	5.9	636	9.5
		WB	8936	5.9	630	7.7	11187	6.3	788	8.2
TR2	Tongarra Road 250m west of Terry Street	EB	7851	6.9	573	11.0	9212	7.7	679	12.2
		WB	8489	6.3	597	8.3	10572	7.2	747	9.5
TS1	Terry Street, 50m south of Tongarra Road	NB	7457	6.9	1650	6.8	7693	7.1	1705	7.0
		SB	8577	7.2	769	9.5	9444	7.7	847	10.1
WB1	Woollybutt Drive, 750m south of Princes Highway	NB	1330	4.5	113	6.8	1617	4.8	142	7.3
		SB	2012	4.3	118	8.1	2323	4.8	138	8.9
YR1	Yallah Road, west of Larkins Lane	EB	2578	11.3	251	14.2	6133	11.2	595	14.2
		WB	1879	9.6	201	6.4	4397	9.5	478	6.4
YR2	Yallah Road, 100m west of Princes Highway	NB	2431	8.4	421	9.4	4964	8.5	864	9.5
		SB	1323	6.1	137	9.7	2923	5.2	306	8.4

Albion Park Rail Bypass Project

Project traffic data

Build scenario

Road label	Description	Direction	Opening year 2020				Design year 2030			
			Day		Night		Day		Night	
			Volume	HV%	Volume	HV%	Volume	HV%	Volume	HV%
BP0	Bypass, south of Albion Park interchange SB exit ramp	NB	11915	6.4	1694	8.0	13031	6.2	1852	7.9
		SB	12998	7.5	1852	9.5	13246	7.4	1888	9.3
BP1	Bypass, south of Albion Park interchange SB entry ramp	NB	16953	7.3	2417	9.2	19119	7.3	2727	9.2
		SB	19726	8.1	2821	10.3	20736	8.2	2965	10.3
BP10	Bypass, Albion Park interchange 300m north of SB exit ramp	NB	19697	9.5	4370	9.3	21526	10.4	4775	10.2
		SB	23805	9.9	2158	12.9	25349	10.9	2307	14.2
BP11	Bypass, Albion Park interchange 300m north of NB exit ramp	NB	5797	7.1	1287	7.0	5877	6.1	1305	6.0
BP2a	Bypass 350m north of Tongarra Road Bridge	NB	16953	7.3	2417	9.2	19119	7.3	2727	9.2
		SB	13411	9.1	1923	11.4	13357	9.2	1915	11.5
BP3	Illawarra Highway, 800m from Taylor Road	NB	8308	11.3	1842	11.2	9721	13.1	2153	12.9
		SB	14749	9.3	1332	12.2	18152	10.5	1648	13.7
BP4	Bypass, Albion Park interchange NB exit ramp	NB	4457	6.2	989	6.1	6067	6.5	1345	6.4
BP5	New Terry Street, 800m north of Taylor Road	NB	8308	11.3	1842	11.2	9721	13.1	2153	12.9
		SB	9739	10.9	883	14.3	11336	12.9	1036	16.8
BP6	Bypass, Albion Park interchange NB entry ramp	NB	8308	11.3	1842	11.2	9721	13.1	2153	12.9
BP7	Bypass 550m north of Tongarra Road Bridge	NB	11382	8.1	2525	7.9	11800	8.1	2617	7.9
		SB	14064	9.1	1271	12.0	14006	9.2	1266	12.1
BP8	Bypass, Albion Park interchange SB exit ramp	SB	9739	10.9	883	14.3	11336	12.9	1036	16.8
BP9	Bypass, Albion Park interchange 100m south of SB exit ramp	NB	19697	9.5	4370	9.3	21526	10.4	4775	10.2
		SB	14064	9.1	1271	12.0	14006	9.2	1266	12.1
CO1	Cormack Avenue	NB	1710	9.0	163	10.1	2110	9.0	205	10.0
		SB	796	4.2	79	3.6	982	4.3	99	3.6
CR1	Croome Road, 100m south of Grevillea Street	NB	2669	3.6	227	4.2	3024	3.9	256	4.5
		SB	2931	3.5	193	5.1	3281	3.5	215	5.1
CR2	Croome Road, 200m south of East-West Link	NB	5423	4.0	576	4.5	6043	4.4	643	5.0
		SB	6293	3.8	394	5.7	6586	4.0	411	6.0
EW1	East-West Link west of Woollybutt Drive	EB	4525	4.5	402	6.8	5005	5.0	446	7.6
		WB	5086	4.3	304	8.1	5233	4.8	315	9.0
EW3	East West Link EB exit ramp	EB	4525	4.5	402	6.8	5005	5.0	446	7.6
EW4	East West Link EB entry ramp	WB	5086	4.3	304	8.1	5233	4.8	315	9.0
HB1	Haywards Bay Drive exit ramp M1	SB	1206	5.5	123	8.7	2044	5.6	213	9.1
HB2	Haywards Bay Drive entry ramp M1	SB	1605	5.8	166	9.2	2917	5.5	305	8.8
NL1	New Lakes Entrance Road, 50m from Oak Flats roundabout	NB	16944	7.3	2415	9.2	18853	7.4	2689	9.4
		SB	17356	6.7	1799	12.5	19559	6.9	2029	12.8

Road label	Description	Direction	Opening year 2020				Design year 2030			
			Day		Night		Day		Night	
			Volume	HV%	Volume	HV%	Volume	HV%	Volume	HV%
PH1	Princes Highway, 100m west from the northbound exit ramp	EB	9995	6.9	981	8.1	9153	6.3	897	7.5
		WB	8990	6.6	795	5.4	8077	6.0	715	4.9
PH10	Princes Highway, 400m south of Woollybutt Drive	NB	6433	6.6	916	8.4	7119	6.9	1012	8.7
		SB	6376	5.7	651	10.7	7635	5.9	784	11.1
PH11	Princes Highway at Oak Flats interchange northbound	SB	1975	5.4	199	10.2	2801	5.0	282	9.5
PH12	Princes Motorway, 100m south of NB exit ramp Oak Flats interchange	NB	16445	6.6	2157	8.3	18409	6.2	2411	7.9
		SB	18820	6.9	1940	13.5	20745	6.5	2132	12.8
PH13	Princes Highway Bridge over Princes Motorway	EB	10751	6.3	1055	7.1	11248	5.2	1101	5.8
		WB	15416	6.3	1584	5.3	15416	6.3	1584	5.3
PH14	Yallah interchange Princes Motorway exit ramp	EB	6488	12.0	639	13.4	7997	12.0	790	13.4
PH15	Yallah interchange Princes Motorway entry ramp	WB	909	12.1	62	15.6	2266	11.3	161	14.7
PH2	Princes Motorway, northbound exit ramp, 50m from Princess Highway	NB	9602	6.4	814	6.0	9563	5.6	810	5.3
PH3	Princes Highway, 350m south of Yallah Bay Road	EB	14715	9.2	1449	10.3	15447	8.9	1520	10.0
PH4	Princes Motorway at Tallawarra exit ramp	NB	5813	7.1	1217	7.4	5839	6.2	1223	6.4
PH5	Princes Motorway, 360m north of Haywards Bay Drive Bridge	NB	7605	11.4	1330	12.7	9642	12.1	1690	13.5
		SB	7680	10.2	834	16.0	8856	10.1	960	15.9
PH6	Princes Motorway, at Haywards Bay Drive Bridge	NB	6094	11.6	1066	12.9	6605	12.2	1156	13.6
		SB	6470	11.1	705	17.3	6804	11.5	744	17.8
PH7	Princes Highway, 100m north of Illawarra Highway	NB	7349	10.7	1284	11.9	8774	10.7	1533	11.9
		SB	8085	10.1	877	15.7	9735	9.7	1055	15.2
PH8	Princes Highway 90m north of Kaylaur Crescent	NB	7903	9.7	1305	11.6	8778	9.5	1451	11.4
		SB	9462	8.6	1029	15.0	10746	8.1	1165	14.2
PH9	Princes Highway 80m south of Nehme Avenue	NB	5254	7.5	748	9.5	5829	7.5	830	9.4
		SB	4817	6.9	498	12.8	5997	6.7	618	12.4
RB1	Oak Flats interchange Princes Highway SB exit ramp	SB	4589	6.1	471	11.3	5032	6.7	518	12.4
RB2	Oak Flats interchange Princes Highway NB entry ramp	NB	6653	6.8	946	8.6	7356	7.0	1048	8.9
RB3	Oak Flats interchange Princes Motorway SB entry ramp	SB	3368	6.6	342	13.0	4208	5.7	426	11.4
RB4	Bypass, Oak Flats interchange SB exit ramp	NB	4407	7.2	577	9.0	5243	6.3	685	7.9
RB5	Oak Flats interchange Princes Highway NB exit ramp	SB	6793	9.3	899	11.7	7565	9.6	1002	12.0
SF1	Princes Motorway, at Princes Highway / Tallawarra Bridge	NB	19467	11.6	4094	12.1	24530	12.8	5163	13.2
		SB	21847	11.4	2354	17.1	26333	12.2	2853	18.1
SF2	Princes Motorway, at Princes Highway / Tallawarra Bridge	SB	16541	10.7	1774	16.1	18499	12.2	2004	18.1
SF3	Princes Highway, 750m south of Yallah Bay Road	SB	7693	10.3	821	15.5	8873	10.2	948	15.4
SF4	Princes Motorway NB, 450m north of Yallah Road	NB	12667	10.0	2664	10.4	12135	11.2	2553	11.7
SF5	Entry ramp from Princes Hwy to Princes Mwy, south of Yallah Bay Road	SB	6920	7.2	729	11.1	6472	6.4	679	9.9
TR1	Tongarra Road 150m west of Croome Road	EB	2878	3.8	205	6.2	3464	4.5	247	7.2
		WB	4011	4.7	279	6.2	4548	4.5	317	6.0
TR2	Tongarra Road 250m west of Terry Street	EB	8024	6.2	583	9.9	9555	5.9	696	9.4
		WB	5306	4.9	369	6.5	4729	4.5	329	6.0

Road label	Description	Direction	Opening year 2020				Design year 2030			
			Day		Night		Day		Night	
			Volume	HV%	Volume	HV%	Volume	HV%	Volume	HV%
TR3	Albion Park interchange, entry ramp M1	SB	6516	6.0	678	9.2	7622	6.2	794	9.5
TS1	Terry Street, 50m south of Tongarra Road	NB	7854	6.7	1742	6.6	8219	6.7	1821	6.6
		SB	7595	7.3	681	9.6	8464	7.4	759	9.8
WB1	Woollybutt Drive, 750m south of Princes Highway	NB	1496	4.2	132	6.4	1600	4.3	140	6.6
		SB	667	2.0	36	3.6	766	2.3	41	4.1
YR1	Yallah Road, west of Larkins Lane	EB	2105	9.6	201	12.2	5021	9.5	483	12.1
		WB	1388	7.2	150	4.8	3145	6.4	344	4.3
YR2	Yallah Road, 100m west of Princes Highway	NB	1983	6.4	342	7.2	3798	6.0	659	6.7
		SB	1202	6.5	126	10.3	2636	5.6	276	9.0
SF6	Princes Motorway overpass above Princes Highway	NB	18663	11.6	3924	12.1	22518	12.9	4739	13.4

APPENDIX D Predicted road traffic noise levels (no mitigation)

Albion Park Rail Bypass

Traffic noise assessment

Without mitigation scenario

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h			≥ 60dB LAeq,9h		
1	1_0001		Residential	G	W	59	54	58	54	59	54	59	54	-0.1	0.1	-0.2	0.2	60	55	NO	NO	NO	NO	NO
1	1_0002		Residential	G	S	59	55	59	54	59	55	59	55	-0.5	-0.3	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0003		Residential	G	W	61	56	60	56	61	57	61	56	-0.5	-0.3	-0.5	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0004		Residential	G	S	59	54	58	54	59	54	58	54	-0.6	-0.4	-0.6	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0005		Residential	G	SW	60	56	60	55	61	56	60	56	-0.5	-0.3	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0006		Residential	G	SW	62	57	61	57	62	58	61	57	-0.6	-0.4	-0.6	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0007		Residential	G	SW	60	56	60	55	61	56	60	56	-0.5	-0.3	-0.5	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0008		Residential	G	SW	62	57	61	57	62	57	61	57	-0.7	-0.5	-0.7	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0009		Residential	G	NW	58	54	58	54	59	54	59	54	0.1	0.3	0.1	0.3	60	55	NO	NO	NO	NO	NO
1	1_0009		Residential	1	SW	60	56	60	56	61	56	61	56	-0.1	0.1	-0.2	0.1	60	55	NO	NO	NO	NO	NO
1	1_0010		Residential	G	SW	62	58	62	57	63	58	62	58	-0.8	-0.6	-0.7	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0010		Residential	1	SW	63	59	63	58	64	59	63	59	-0.6	-0.4	-0.6	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0011		Residential	G	W	59	54	59	55	59	55	59	55	0.1	0.3	0	0.3	60	55	NO	NO	NO	NO	NO
1	1_0012		Residential	G	SW	63	58	62	58	63	59	62	58	-0.7	-0.5	-0.7	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0013		Residential	G	W	59	54	59	54	59	54	59	55	-0.1	0.2	-0.1	0.2	60	55	NO	NO	NO	NO	NO
1	1_0013		Residential	1	S	61	56	61	56	61	57	61	57	-0.1	0.2	-0.2	0.1	60	55	NO	NO	NO	NO	NO
1	1_0014		Residential	G	SW	63	59	63	58	64	59	63	59	-0.7	-0.5	-0.6	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0014		Residential	1	SW	64	60	64	59	64	60	64	60	-0.6	-0.4	-0.5	-0.4	60	55	NO	YES	NO	NO	YES
1	1_0015		Residential	G	NW	57	53	57	53	58	53	58	53	0	0.2	-0.1	0.1	60	55	NO	NO	NO	NO	NO
1	1_0015		Residential	1	SE	60	56	59	55	61	56	60	55	-0.7	-0.5	-0.7	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0016		Residential	G	SW	64	59	63	59	64	60	64	59	-0.8	-0.6	-0.7	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0017		Residential	G	SW	62	57	61	57	62	57	62	57	-0.4	-0.2	-0.5	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0017		Residential	1	SW	63	59	63	58	64	59	63	59	-0.4	-0.2	-0.3	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0018		Residential	G	W	62	57	62	57	62	58	62	58	-0.2	-0.3	-0.3	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0018		Residential	1	S	63	59	63	58	64	59	63	59	-0.4	-0.3	-0.3	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0019		Residential	G	W	62	58	62	58	63	58	63	58	-0.3	-0.2	-0.3	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0020		Residential	G	S	62	57	61	57	62	58	62	57	-0.5	-0.3	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0020		Residential	1	S	63	58	62	58	63	59	63	58	-0.5	-0.4	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0021		Residential	G	S	61	57	61	56	62	57	61	57	-0.4	-0.4	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0021		Residential	1	S	62	58	62	57	63	58	62	58	-0.5	-0.4	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0022		Residential	G	S	61	56	61	56	61	57	61	56	-0.5	-0.4	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0022		Residential	1	S	62	57	62	57	62	58	62	57	-0.5	-0.4	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0023		Residential	G	S	61	57	61	56	62	57	61	57	-0.5	-0.4	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0023		Residential	1	S	62	58	62	57	63	58	62	58	-0.6	-0.4	-0.6	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0024		Residential	G	W	68	63	67	63	68	64	68	63	-0.2	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0025		Residential	G	S	60	56	60	56	61	56	60	56	-0.4	-0.4	-0.5	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0025		Residential	1	S	61	57	61	57	62	57	61	57	-0.3	-0.2	-0.4	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0026		Residential	G	W	66	62	66	62	67	62	67	62	-0.1	0	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0027		Residential	G	S	61	56	60	56	61	56	61	56	-0.5	-0.4	-0.5	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0027		Residential	1	S	61	57	61	57	62	57	61	57	-0.4	-0.2	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0028		Residential	G	W	64	60	64	60	65	60	65	60	-0.1	-0.1	-0.1	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0029		Residential	G	S	61	56	60	56	61	56	61	56	-0.5	-0.3	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0029		Residential	1	S	62	57	61	57	62	57	62	57	-0.4	-0.2	-0.3	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0030		Residential	G	W	64	60	64	59	65	60	64	60	-0.1	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0031		Residential	G	S	60	55	60	55	60	56	60	56	-0.3	-0.1	-0.4	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0031		Residential	1	S	62	57	61	57	62	57	62	57	-0.3	0	-0.2	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0032		Residential	G	SW	63																		

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night							
1	1_0050		Residential	G	S	60	55	59	55	60	55	59	55	-0.7	-0.5	-0.6	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0051		Residential	G	SW	60	56	60	56	61	56	60	56	-0.3	-0.1	-0.4	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0052		Residential	G	SW	58	53	58	53	58	54	58	54	-0.5	-0.3	-0.5	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0053		Residential	G	SE	58	53	57	53	58	54	58	53	-0.8	-0.5	-0.7	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0054		Residential	G	SE	36	31	35	31	36	32	36	31	-0.6	-0.5	-0.6	-0.4	48	44	NO	NO	NO	NO	NO
1	1_0054		Residential	1	SE	36	31	35	31	36	32	36	31	-0.6	-0.4	-0.6	-0.4	48	44	NO	NO	NO	NO	NO
1	1_0055		Residential	G	NW	55	50	56	51	55	51	56	52	0.8	1	0.7	1	60	55	NO	NO	NO	NO	NO
1	1_0056		Residential	G	W	69	64	69	64	70	65	69	65	-0.1	0	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0056		Residential	1	W	70	66	70	66	71	66	71	66	0	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0057		Residential	G	W	70	65	70	65	71	66	71	66	-0.1	-0.1	0	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0058		Residential	G	W	64	60	64	60	65	60	65	60	0	-0.1	-0.1	0	60	55	NO	NO	NO	NO	NO
1	1_0059		Residential	G	S	59	55	59	55	60	55	60	55	-0.1	-0.1	-0.2	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0059		Residential	1	S	62	57	61	57	62	58	62	57	-0.2	-0.2	-0.3	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0060		Residential	G	N	61	57	61	57	62	57	62	57	-0.1	-0.1	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0061		Residential	G	S	57	53	58	53	58	53	58	53	0.1	0.1	0.1	0.1	60	55	NO	NO	NO	NO	NO
1	1_0061		Residential	1	S	60	55	60	55	60	56	60	56	-0.1	-0.1	-0.2	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0062		Residential	G	S	60	56	60	56	61	56	61	56	0	0	0	0	60	55	NO	NO	NO	NO	NO
1	1_0062		Residential	1	S	62	57	62	57	62	58	62	58	-0.2	-0.1	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0063		Residential	G	S	60	56	60	56	61	56	61	56	-0.1	-0.1	-0.2	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0063		Residential	1	S	62	57	62	57	62	58	62	57	-0.2	-0.2	-0.3	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0064		Residential	G	S	55	50	55	51	55	51	56	51	0.4	0.5	0.4	0.5	60	55	NO	NO	NO	NO	NO
1	1_0064		Residential	1	S	59	54	59	54	59	54	59	55	0	0.1	0	0.1	60	55	NO	NO	NO	NO	NO
1	1_0065		Residential	G	S	61	56	61	56	61	57	61	57	-0.1	0	-0.2	0	60	55	NO	NO	NO	NO	NO
1	1_0066		Residential	G	S	61	56	61	56	61	56	61	56	-0.2	-0.1	-0.2	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0067		Residential	G	S	58	54	59	54	59	54	59	55	0.3	0.5	0.2	0.5	60	55	NO	NO	NO	NO	NO
1	1_0068		Residential	G	S	61	56	60	56	61	56	61	56	-0.3	-0.1	-0.3	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0069		Residential	G	S	60	55	59	55	60	55	60	55	-0.4	-0.2	-0.4	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0069		Residential	1	S	62	57	61	57	62	57	62	57	-0.3	-0.1	-0.3	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0070		Residential	G	S	58	54	58	54	59	54	58	54	-0.2	0	-0.2	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0071		Residential	G	S	58	53	57	53	58	53	58	53	-0.3	-0.1	-0.3	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0071		Residential	1	S	60	56	60	56	61	56	61	56	-0.1	0.1	-0.1	0.1	60	55	NO	NO	NO	NO	NO
1	1_0072		Residential	G	E	53	48	53	48	54	49	53	48	-0.5	-0.3	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0073		Residential	G	E	54	49	53	49	54	49	54	49	-0.4	-0.3	-0.5	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0074		Residential	G	S	51	46	50	46	51	46	51	46	-0.3	-0.1	-0.3	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0074		Residential	1	W	57	53	57	53	58	53	58	53	-0.1	0.1	-0.1	0.1	60	55	NO	NO	NO	NO	NO
1	1_0075		Residential	G	W	55	50	55	50	56	51	55	51	-0.2	0	-0.2	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0076		Residential	G	W	56	52	56	51	57	52	56	52	-0.5	-0.4	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0077		Residential	G	W	49	45	49	44	50	45	49	45	-0.5	-0.5	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0077		Residential	1	W	58	53	58	53	58	53	58	54	-0.1	0	-0.1	0.1	60	55	NO	NO	NO	NO	NO
1	1_0078		Residential	G	S	57	52	57	52	57	52	57	53	0.1	0.4	0.2	0.3	60	55	NO	NO	NO	NO	NO
1	1_0079		Residential	G	S	63	58	62	58	63	59	63	58	-0.4	-0.3	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0079		Residential	1	S	63	59	63	58	64	59	63	59	-0.4	-0.3	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0080		Residential	G	S	62	57	61	57	62	57	62	57	-0.2	-0.1	-0.2	-0.1	60	55	NO	NO	NO	NO	NO
1	1_00																							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
1	1_0106		Residential	G	S	57	53	57	53	58	53	58	53	0.1	0.4	0.2	0.4	60	55	NO	NO	NO	NO	NO
1	1_0107		Residential	G	S	55	51	55	50	56	51	55	51	-0.7	-0.4	-0.6	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0108		Residential	G	S	56	52	57	52	57	52	57	53	0.4	0.7	0.3	0.6	60	55	NO	NO	NO	NO	NO
1	1_0109		Residential	G	SE	54	49	53	49	54	50	54	49	-0.6	-0.4	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0109		Residential	1	SW	57	52	57	53	57	52	57	53	0.4	0.7	0.4	0.7	60	55	NO	NO	NO	NO	NO
1	1_0110		Residential	G	W	55	50	56	51	55	51	56	52	0.6	0.9	0.6	1	60	55	NO	NO	NO	NO	NO
1	1_0110		Residential	1	S	57	52	58	53	57	53	58	53	0.4	0.6	0.4	0.7	60	55	NO	NO	NO	NO	NO
1	1_0111		Residential	G	SW	55	51	56	52	56	51	56	52	0.8	1	0.7	1	60	55	NO	NO	NO	NO	NO
1	1_0112		Residential	G	W	57	52	57	53	57	52	57	53	0.5	0.7	0.4	0.7	60	55	NO	NO	NO	NO	NO
1	1_0113		Residential	G	W	57	52	57	53	57	53	58	53	0.4	0.6	0.4	0.6	60	55	NO	NO	NO	NO	NO
1	1_0114		Residential	G	SE	55	50	55	50	55	51	55	50	-0.5	-0.2	-0.5	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0115		Residential	G	NW	54	49	55	50	54	50	55	51	0.9	1.1	0.8	1.1	60	55	NO	NO	NO	NO	NO
1	1_0115		Residential	1	SW	57	53	58	53	58	53	58	53	0.2	0.5	0.2	0.5	60	55	NO	NO	NO	NO	NO
1	1_0116	Echidna Children's Centre	Childcare Sleeping	G	S	57	53	57	53	58	53	58	53	-0.1	0.1	-0.1	0.1	45	-	YES	YES	NO	-	YES
1	1_0117		Residential	G	S	57	53	57	52	58	53	57	53	-0.5	-0.3	-0.5	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0118		Residential	G	S	56	51	55	51	56	51	56	51	-0.3	-0.1	-0.3	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0119		Residential	G	S	56	52	56	52	57	52	56	52	-0.3	-0.1	-0.4	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0119		Residential	1	S	58	53	58	53	58	53	58	54	0.1	0.4	0.2	0.4	60	55	NO	NO	NO	NO	NO
1	1_0120		Residential	G	S	57	53	57	53	58	53	58	53	0.1	0.4	0.1	0.3	60	55	NO	NO	NO	NO	NO
1	1_0120		Residential	1	S	58	53	58	54	58	54	58	54	0	0.4	0.1	0.3	60	55	NO	NO	NO	NO	NO
1	1_0121		Residential	G	S	57	53	57	53	58	53	58	53	0.1	0.4	0.2	0.4	60	55	NO	NO	NO	NO	NO
1	1_0121		Residential	1	S	58	53	58	54	58	54	58	54	0	0.4	0.1	0.3	60	55	NO	NO	NO	NO	NO
1	1_0122		Residential	G	S	57	52	57	53	57	53	58	53	0.1	0.5	0.2	0.4	60	55	NO	NO	NO	NO	NO
1	1_0122		Residential	1	S	58	53	58	53	58	53	58	54	0.2	0.5	0.2	0.5	60	55	NO	NO	NO	NO	NO
2	2_0001		Residential	G	N	53	47	59	54	53	48	59	54	5.8	7.2	5.7	6.9	55	50	NO	NO	NO	NO	YES
3	3_0001		Residential	G	SE	54	48	59	54	55	49	59	55	4.7	6.3	4.6	6.1	55	50	NO	YES	NO	NO	YES
3	3_0001		Residential	1	SW	58	52	62	58	59	53	63	58	4.2	5.8	3.9	5.5	55	50	YES	YES	NO	NO	YES
3	3_0002		Residential	G	SE	57	51	62	57	57	51	62	58	4.8	6.7	4.6	6.3	55	50	YES	YES	NO	NO	YES
3	3_0003		Residential	G	SE	57	51	62	57	57	51	62	58	4.9	6.7	4.6	6.4	55	50	YES	YES	NO	NO	YES
3	3_0004		Residential	G	SE	57	51	62	58	58	52	62	58	4.9	6.8	4.6	6.4	55	50	YES	YES	NO	NO	YES
3	3_0005		Residential	G	SE	57	51	62	58	58	52	62	58	4.9	6.8	4.6	6.5	55	50	YES	YES	NO	NO	YES
3	3_0006		Residential	G	SE	57	50	61	57	57	51	62	57	4.7	6.6	4.5	6.3	55	50	YES	YES	NO	NO	YES
3	3_0007		Residential	G	SE	57	51	62	58	58	52	62	58	4.7	6.6	4.4	6.3	55	50	YES	YES	NO	NO	YES
3	3_0008		Residential	G	SE	57	51	62	58	58	52	62	58	4.9	6.8	4.6	6.5	55	50	YES	YES	NO	NO	YES
3	3_0009		Residential	G	SE	57	51	62	57	58	51	62	58	4.7	6.6	4.4	6.3	55	50	YES	YES	NO	NO	YES
3	3_0010		Residential	G	S	58	51	62	58	58	52	63	58	4.7	6.6	4.3	6.2	55	50	YES	YES	NO	NO	YES
3	3_0011		Residential	G	S	58	51	62	58	58	52	63	58	4.7	6.7	4.4	6.3	55	50	YES	YES	NO	NO	YES
3	3_0012		Residential	G	S	58	51	62	58	58	52	63	58	4.8	6.7	4.5	6.4	55	50	YES	YES	NO	NO	YES
3	3_0013		Residential	G	S	56	50	61	57	57	50	62	57	5.3	7.3	5.1	6.9	55	50	YES	YES	NO	NO	YES
3	3_0014		Residential	G	S	57	51	62	58	58	52	63	58	5	7	4.7	6.6	55	50	YES	YES	NO	NO	YES
3	3_0015		Residential	G	S	57	51	62	58	58	52	63	58	5.3	7.2	5	6.9	55	50	YES	YES	NO	NO	YES
3	3_0016		Residential	G	S	57	51	62	58	58														

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
3	3_0051		Residential	G	S	51	45	55	50	52	46	55	51	3.8	4.9	3.6	4.8	55	50	NO	NO	NO	NO	YES
3	3_0052		Residential	G	S	52	46	56	51	52	46	56	51	4	5.3	3.9	5.1	55	50	NO	NO	NO	NO	YES
3	3_0053		Residential	G	S	52	46	56	51	52	46	56	52	4.2	5.6	4.1	5.3	55	50	NO	NO	NO	NO	YES
3	3_0054		Residential	G	SW	53	47	57	52	53	47	57	53	4.1	5.5	4	5.3	55	50	NO	NO	NO	NO	YES
3	3_0055		Residential	G	SE	52	47	57	53	53	47	58	53	5	6.4	4.7	6.1	55	50	NO	NO	NO	NO	YES
3	3_0056		Residential	G	SE	52	46	57	52	53	47	57	53	4.7	6	4.4	5.8	55	50	NO	NO	NO	NO	YES
3	3_0057		Residential	G	S	52	46	57	53	53	47	57	53	4.9	6.4	4.7	6.1	55	50	NO	NO	NO	NO	YES
3	3_0058		Residential	G	S	52	46	57	52	53	47	57	53	4.8	6.3	4.6	6.1	55	50	NO	NO	NO	NO	YES
3	3_0059		Residential	G	S	52	46	56	52	52	46	57	52	4.6	6	4.4	5.9	55	50	NO	NO	NO	NO	YES
3	3_0060		Residential	G	S	51	46	56	51	52	46	56	51	4.2	5.6	4	5.3	55	50	NO	NO	NO	NO	YES
3	3_0061		Residential	G	S	51	46	56	51	52	46	56	51	4.1	5.4	3.8	5.2	55	50	NO	NO	NO	NO	YES
3	3_0062		Residential	G	SE	52	46	56	52	52	47	56	52	4.2	5.4	4	5.3	55	50	NO	NO	NO	NO	YES
3	3_0063		Residential	G	S	56	50	63	58	57	51	63	59	6.3	8.1	6	7.8	55	50	YES	YES	NO	NO	YES
3	3_0064		Residential	G	S	56	50	63	58	57	51	63	59	6.4	8.3	6.1	7.9	55	50	YES	YES	NO	NO	YES
3	3_0065		Residential	G	S	55	49	62	57	56	50	62	58	6.7	8.5	6.5	8.2	55	50	YES	YES	NO	NO	YES
3	3_0066		Residential	G	S	56	49	62	58	56	50	63	58	6.9	8.7	6.5	8.2	55	50	YES	YES	NO	NO	YES
3	3_0067		Residential	G	S	56	50	63	58	57	50	63	59	6.7	8.5	6.4	8.2	55	50	YES	YES	NO	NO	YES
3	3_0068		Residential	G	S	56	50	62	58	56	50	63	59	6.7	8.6	6.4	8.2	55	50	YES	YES	NO	NO	YES
3	3_0069		Residential	G	S	56	50	62	58	56	50	63	58	6.6	8.4	6.2	8	55	50	YES	YES	NO	NO	YES
3	3_0070		Residential	G	S	56	50	63	58	56	50	63	59	6.7	8.6	6.5	8.3	55	50	YES	YES	NO	NO	YES
3	3_0071		Residential	G	S	56	50	63	58	56	50	63	59	6.8	8.7	6.5	8.3	55	50	YES	YES	NO	NO	YES
3	3_0072		Residential	G	S	56	50	63	58	56	50	63	59	6.8	8.7	6.5	8.2	55	50	YES	YES	NO	NO	YES
3	3_0073		Residential	G	SE	53	47	58	54	54	48	59	54	5.2	6.8	5	6.6	55	50	NO	NO	NO	NO	YES
3	3_0074		Residential	G	S	54	48	59	55	54	48	60	55	5.5	7.2	5.2	6.8	55	50	YES	YES	NO	NO	YES
3	3_0075		Residential	G	S	54	48	59	55	54	48	60	55	5.6	7.3	5.3	6.9	55	50	YES	YES	NO	NO	YES
3	3_0076		Residential	G	S	53	47	59	55	54	48	59	55	5.5	7.2	5.3	6.9	55	50	NO	YES	NO	NO	YES
3	3_0077		Residential	G	S	53	47	59	54	54	48	59	55	5.5	7.2	5.3	6.9	55	50	NO	YES	NO	NO	YES
3	3_0078		Residential	G	S	53	47	59	54	54	48	59	55	5.6	7.3	5.3	7	55	50	NO	YES	NO	NO	YES
3	3_0079		Residential	G	S	53	47	59	54	54	48	59	55	5.7	7.5	5.4	7.2	55	50	NO	YES	NO	NO	YES
3	3_0080		Residential	G	S	53	47	58	54	54	48	59	54	5.3	7	5.1	6.8	55	50	NO	NO	NO	NO	YES
3	3_0081		Residential	G	S	55	49	62	58	56	50	62	58	6.9	8.7	6.6	8.3	55	50	YES	YES	NO	NO	YES
3	3_0082		Residential	G	S	56	50	63	58	57	50	63	59	6.9	8.7	6.5	8.3	55	50	YES	YES	NO	NO	YES
3	3_0083		Residential	G	S	55	49	62	58	56	50	63	58	7.2	9.2	6.9	8.7	55	50	YES	YES	NO	NO	YES
3	3_0083		Residential	1	S	57	51	63	59	58	52	64	60	6.5	8.5	6.2	8	55	50	YES	YES	NO	YES	YES
3	3_0084		Residential	G	S	56	50	63	58	57	51	63	59	6.6	8.5	6.3	8.2	55	50	YES	YES	NO	NO	YES
3	3_0085		Residential	G	S	56	50	63	58	57	51	63	59	6.6	8.5	6.2	8	55	50	YES	YES	NO	NO	YES
3	3_0086		Residential	G	S	56	49	62	58	56	50	63	59	6.8	8.8	6.5	8.3	55	50	YES	YES	NO	NO	YES
3	3_0087		Residential	G	S	57	50	63	58	57	51	63	59	6.2	8.1	5.8	7.7	55	50	YES	YES	NO	NO	YES
3	3_0088		Residential	G	S	57	51	63	58	58	52	63	59	5.4	7.5	5	7	55	50	YES	YES	NO	NO	YES
3	3_0089		Residential	G	S	58	51	62	58	58	52	63	58	4.6	6.8	4.2	6.3	55	50	YES	YES	NO	NO	YES
3	3_0090		Residential	G	S	56	50	59	55	57	51	60	55	2.7	4.8	2.3	4.5	55	50	YES	YES	NO	NO	YES
3	3_0091		Residential	G	S	55	49	59	54	56	49	59	55	3.8	5.9									

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
3	3_0123		Residential	1	S	56	49	60	56	57	50	61	56	4.3	6.3	4	6	55	50	YES	YES	NO	NO	YES
3	3_0124		Residential	G	S	55	48	59	55	55	49	60	55	4.9	6.7	4.5	6.4	55	50	YES	YES	NO	NO	YES
3	3_0125		Residential	G	S	50	44	55	50	51	44	55	51	4.8	6.7	4.5	6.4	55	50	NO	NO	NO	NO	YES
3	3_0125		Residential	1	S	54	47	58	54	54	48	59	54	4.5	6.4	4.3	6.1	55	50	NO	NO	NO	NO	YES
3	3_0126		Residential	G	W	52	45	53	49	53	46	54	49	1.6	3.2	1.2	2.9	55	50	NO	NO	NO	NO	NO
3	3_0127		Residential	G	W	52	45	54	49	53	46	54	50	2.2	3.8	1.8	3.4	55	50	NO	NO	NO	NO	NO
3	3_0128		Residential	G	W	52	46	54	49	53	47	54	50	1.7	3.3	1.4	3	55	50	NO	NO	NO	NO	NO
3	3_0129		Residential	G	E	54	48	57	53	55	49	58	53	2.9	4.3	2.7	4.1	55	50	NO	NO	NO	NO	YES
3	3_0130		Residential	G	E	54	48	57	53	55	49	58	53	3.3	4.6	2.9	4.3	55	50	NO	NO	NO	NO	YES
3	3_0131		Residential	G	E	54	48	57	53	54	49	57	53	3.1	4.5	2.9	4.3	55	50	NO	NO	NO	NO	YES
3	3_0132		Residential	G	S	52	46	57	53	53	46	58	53	5.2	7.2	4.9	6.8	55	50	NO	NO	NO	NO	YES
3	3_0132		Residential	1	S	55	49	61	56	56	50	61	57	5.6	7.5	5.2	7.1	55	50	YES	YES	NO	NO	YES
3	3_0133		Residential	G	S	53	47	59	54	54	48	59	55	5.8	7.7	5.5	7.3	55	50	NO	YES	NO	NO	YES
3	3_0134		Residential	G	S	53	47	59	55	54	47	59	55	6.1	7.9	5.7	7.5	55	50	NO	YES	NO	NO	YES
3	3_0135		Residential	G	S	52	46	58	54	53	47	59	54	6.1	7.9	5.8	7.6	55	50	NO	NO	NO	NO	YES
3	3_0136		Residential	G	S	53	47	59	55	54	48	59	55	5.9	7.8	5.5	7.3	55	50	NO	YES	NO	NO	YES
3	3_0137		Residential	G	S	53	47	59	55	54	48	59	55	5.8	7.7	5.6	7.4	55	50	NO	YES	NO	NO	YES
3	3_0138		Residential	G	S	53	47	59	54	54	48	59	55	5.6	7.5	5.4	7.2	55	50	NO	YES	NO	NO	YES
3	3_0139		Residential	G	S	53	46	59	54	54	47	59	55	6	7.9	5.6	7.6	55	50	NO	YES	NO	NO	YES
3	3_0139		Residential	1	S	55	49	61	57	56	50	62	57	6	7.9	5.7	7.5	55	50	YES	YES	NO	NO	YES
3	3_0140		Residential	G	S	53	47	59	55	54	48	59	55	5.8	7.6	5.4	7.3	55	50	NO	YES	NO	NO	YES
3	3_0141		Residential	G	S	53	47	59	54	54	48	59	55	5.6	7.4	5.3	7.1	55	50	NO	YES	NO	NO	YES
3	3_0142		Residential	G	S	53	47	58	54	54	47	59	54	5.4	7.2	5.1	6.9	55	50	NO	NO	NO	NO	YES
3	3_0143		Residential	G	S	53	46	58	54	53	47	58	54	5.5	7.3	5.1	6.9	55	50	NO	NO	NO	NO	YES
3	3_0144		Residential	G	S	53	46	58	53	53	47	58	54	5.3	7.1	5	6.8	55	50	NO	NO	NO	NO	YES
3	3_0145		Residential	G	W	51	45	55	50	52	45	55	50	3.7	5.4	3.4	5.1	55	50	NO	NO	NO	NO	NO
3	3_0146		Residential	G	S	52	46	57	52	53	46	57	53	4.8	6.6	4.5	6.3	55	50	NO	NO	NO	NO	YES
3	3_0147		Residential	G	W	51	44	54	50	51	45	55	50	3.6	5.4	3.3	5.1	55	50	NO	NO	NO	NO	NO
3	3_0148		Residential	G	E	51	45	55	51	51	45	56	51	4.4	6.1	4.2	5.7	55	50	NO	NO	NO	NO	YES
3	3_0149		Residential	G	W	51	45	54	49	52	46	54	49	2.1	3.7	1.9	3.4	55	50	NO	NO	NO	NO	NO
3	3_0150		Residential	G	W	51	45	53	48	52	45	54	49	2.1	3.7	1.8	3.4	55	50	NO	NO	NO	NO	NO
3	3_0151		Residential	G	E	52	46	53	49	53	47	54	49	1.2	2.4	1	2.1	55	50	NO	NO	NO	NO	NO
3	3_0152		Residential	G	S	50	44	54	49	51	45	54	50	3.7	5.4	3.3	5	55	50	NO	NO	NO	NO	NO
3	3_0153		Residential	G	S	51	45	54	50	52	45	55	50	3.4	5.1	3.1	4.8	55	50	NO	NO	NO	NO	NO
3	3_0154		Residential	G	W	53	47	56	51	54	47	56	52	2.8	4.6	2.5	4.3	55	50	NO	NO	NO	NO	YES
3	3_0155		Residential	G	S	52	46	57	53	53	46	57	53	4.9	7	4.7	6.5	55	50	NO	NO	NO	NO	YES
3	3_0156		Residential	G	S	55	49	59	55	56	50	60	55	4.2	6	3.8	5.7	55	50	YES	YES	NO	NO	YES
3	3_0157		Residential	G	S	51	45	55	50	52	45	55	51	3.9	5.8	3.7	5.4	55	50	NO	NO	NO	NO	YES
3	3_0157		Residential	1	S	54	48	58	53	55	49	58	54	3.4	5.3	3.1	5	55	50	NO	NO	NO	NO	YES
3	3_0158		Residential	G	S	51	45	55	50	52	45	55	50	3.5	5.3	3.2	5	55	50	NO	NO	NO	NO	NO
3	3_0159		Residential	G	W	52	46	55	50	53	46	55	51	2.8	4.6	2.5	4.3	55	50	NO	NO	NO	NO	YES
3	3_0160		Residential	G	S	51	45	55	50	52	46	55	51	3.6	5.3	3.3	5	55	50	NO	NO	NO	NO	YES
3	3_0161		Residential	G	SE	54	48	57	52	55	48	57	53	2.7	4.4	2.4	4.1							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
3	3_0194		Residential	1	S	59	52	64	59	59	53	64	60	5.1	7.3	4.8	6.9	55	50	YES	YES	NO	YES	YES
3	3_0195		Residential	G	SE	55	49	61	57	56	50	61	57	5.6	7.7	5.2	7.2	55	50	YES	YES	NO	NO	YES
3	3_0196		Residential	G	S	51	45	56	51	52	45	56	52	4.5	6.5	4.2	6.1	55	50	NO	NO	NO	NO	YES
3	3_0196		Residential	1	S	55	48	59	54	56	49	59	55	3.9	5.9	3.6	5.6	55	50	NO	YES	NO	NO	YES
3	3_0197		Residential	G	S	52	46	57	52	53	46	57	53	4.8	6.7	4.4	6.3	55	50	NO	NO	NO	NO	YES
3	3_0198		Residential	G	S	52	46	57	52	53	46	57	53	4.8	6.7	4.5	6.4	55	50	NO	NO	NO	NO	YES
3	3_0199		Residential	G	S	52	46	57	53	53	47	58	53	4.9	6.8	4.6	6.4	55	50	NO	NO	NO	NO	YES
3	3_0200		Residential	G	E	52	46	56	51	53	47	56	52	3.4	5.1	3.1	4.8	55	50	NO	NO	NO	NO	YES
3	3_0201		Residential	G	S	53	46	57	53	54	47	58	53	4.5	6.5	4.2	6.1	55	50	NO	NO	NO	NO	YES
3	3_0202		Residential	G	S	54	47	58	54	54	48	59	54	4.5	6.5	4.2	6.1	55	50	NO	NO	NO	NO	YES
3	3_0203		Residential	G	S	54	47	59	54	55	48	59	55	4.9	6.8	4.5	6.5	55	50	NO	YES	NO	NO	YES
3	3_0204		Residential	G	SW	56	49	59	54	57	50	60	54	3.1	4.9	2.8	4.4	55	50	YES	NO	NO	NO	YES
3	3_0205		Residential	G	SW	56	49	60	55	57	50	60	55	3.6	5.5	3.2	5	55	50	YES	YES	NO	NO	YES
3	3_0206		Residential	G	SW	56	49	60	55	57	50	60	56	4.3	6.2	3.9	5.8	55	50	YES	YES	NO	NO	YES
3	3_0207		Residential	G	W	52	45	54	50	52	46	55	50	2.7	4.4	2.4	4	55	50	NO	NO	NO	NO	NO
3	3_0208		Residential	G	W	52	45	54	50	52	46	55	50	2.7	4.4	2.4	4.1	55	50	NO	NO	NO	NO	NO
3	3_0209		Residential	G	W	51	44	54	50	52	45	55	50	3.3	5.2	3	4.8	55	50	NO	NO	NO	NO	NO
3	3_0210		Residential	G	E	53	47	55	50	54	48	55	50	1.7	3	1.4	2.8	55	50	NO	NO	NO	NO	NO
3	3_0211		Residential	G	W	52	45	55	50	52	46	55	51	3.3	5	3	4.7	55	50	NO	NO	NO	NO	YES
3	3_0212		Residential	G	S	50	43	54	50	50	44	55	50	4.6	6.5	4.4	6.2	55	50	NO	NO	NO	NO	NO
3	3_0213		Residential	G	SW	51	45	55	50	52	46	55	51	3.7	5.7	3.4	5.2	55	50	NO	NO	NO	NO	YES
3	3_0214		Residential	G	SW	51	45	55	50	52	46	56	51	3.8	5.7	3.5	5.3	55	50	NO	NO	NO	NO	YES
3	3_0215		Residential	G	SE	52	45	55	51	52	46	56	51	3.6	5.2	3.3	4.8	55	50	NO	NO	NO	NO	YES
3	3_0216		Residential	G	S	51	44	55	51	51	45	56	51	4.6	6.5	4.4	6.1	55	50	NO	NO	NO	NO	YES
3	3_0217		Residential	G	S	51	44	55	51	51	45	56	51	4.8	6.6	4.5	6.3	55	50	NO	NO	NO	NO	YES
3	3_0218		Residential	G	SW	52	46	57	52	53	46	57	52	4.4	6.3	4.1	5.9	55	50	NO	NO	NO	NO	YES
3	3_0219		Residential	G	SW	52	45	56	51	53	46	56	52	4.1	6.1	3.8	5.7	55	50	NO	NO	NO	NO	YES
3	3_0220		Residential	G	SW	52	45	56	51	53	46	56	51	3.6	5.6	3.2	5.1	55	50	NO	NO	NO	NO	YES
3	3_0220		Residential	1	SW	56	49	59	54	57	50	59	54	3	4.8	2.7	4.4	55	50	NO	NO	NO	NO	YES
3	3_0221		Residential	G	S	50	44	54	50	51	45	55	50	4.2	6	4	5.7	55	50	NO	NO	NO	NO	NO
3	3_0222		Residential	G	SE	51	44	55	51	51	45	56	51	4.6	6.3	4.3	6	55	50	NO	NO	NO	NO	YES
3	3_0223		Residential	G	SE	53	46	56	52	53	47	57	52	3.9	5.7	3.6	5.3	55	50	NO	NO	NO	NO	YES
3	3_0224		Residential	G	SW	58	51	60	54	59	52	60	55	1.9	3.5	1.7	3	55	50	YES	YES	NO	NO	YES
3	3_0225		Residential	G	SE	51	45	55	50	52	46	55	50	3.5	5	3.2	4.7	55	50	NO	NO	NO	NO	NO
3	3_0226		Residential	G	SE	52	45	55	50	52	46	55	51	3.4	5	3.1	4.7	55	50	NO	NO	NO	NO	YES
3	3_0227		Residential	G	SE	51	45	55	50	52	46	55	51	3.7	5.3	3.4	5	55	50	NO	NO	NO	NO	YES
3	3_0228		Residential	G	SE	50	44	55	50	51	45	55	51	4.3	6.1	4	5.8	55	50	NO	NO	NO	NO	YES
3	3_0228		Residential	1	SW	55	48	57	52	55	49	58	53	2.5	4.3	2.2	3.9	55	50	NO	NO	NO	NO	YES
3	3_0229		Residential	G	SE	52	45	55	50	52	46	56	51	3.6	5.3	3.3	4.9	55	50	NO	NO	NO	NO	YES
3	3_0230		Residential	G	NW	55	49	56	50	56	49	56	51	0.3	1.4	0.1	1.2	55	50	NO	NO	NO	NO	NO
3	3_0230		Residential	G	SW	53	46	55	50	54	47	56	51	2.4	4.1	2.2	3.7	55	50	NO	NO	NO	NO	YES
3	3_0231		Residential	G	SE	52	46	55	51	53	47	56	51											

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
3	3_0267		Residential	G	SW	53	47	54	49	54	47	55	49	0.9	2.4	0.7	2	55	50	NO	NO	NO	NO	NO
3	3_0268		Residential	G	SE	52	46	54	49	53	46	54	49	2	3.3	1.8	3	55	50	NO	NO	NO	NO	NO
3	3_0269		Residential	G	SW	52	45	53	48	53	46	54	48	1.5	3	1.2	2.6	55	50	NO	NO	NO	NO	NO
3	3_0269		Residential	1	SW	55	48	56	51	56	49	57	51	0.9	2.4	0.6	1.9	55	50	NO	NO	NO	NO	YES
3	3_0270		Residential	G	SW	53	47	55	49	54	48	55	50	1.4	2.8	1.1	2.3	55	50	NO	NO	NO	NO	NO
3	3_0271		Residential	G	SW	54	47	55	50	54	48	55	50	1.3	2.7	1.1	2.3	55	50	NO	NO	NO	NO	NO
3	3_0272		Residential	G	SW	54	47	55	50	55	48	56	50	1.1	2.4	0.8	2	55	50	NO	NO	NO	NO	NO
3	3_0273		Residential	G	SW	54	47	55	50	55	48	56	50	0.9	2.3	0.7	1.8	55	50	NO	NO	NO	NO	NO
3	3_0274		Residential	G	SW	56	49	56	51	56	49	57	51	0.8	2	0.6	1.7	55	50	NO	NO	NO	NO	NO
3	3_0274		Residential	G	SE	55	48	56	51	56	49	57	51	1.2	2.5	1	2.1	55	50	NO	NO	NO	NO	YES
3	3_0275		Residential	G	E	57	53	55	51	58	53	56	51	-1.9	-1.8	-1.8	-1.8	55	50	NO	NO	NO	NO	NO
3	3_0276		Residential	G	E	57	53	55	51	58	53	56	51	-1.9	-1.9	-1.9	-1.8	55	50	NO	NO	NO	NO	NO
3	3_0277		Residential	G	E	57	53	56	51	58	53	56	52	-1.6	-1.5	-1.5	-1.4	55	50	NO	NO	NO	NO	NO
3	3_0278		Residential	G	W	54	49	55	51	55	50	56	51	1.3	1.9	1.2	1.8	55	50	NO	NO	NO	NO	NO
3	3_0278		Residential	G	W	53	48	55	51	54	49	56	51	1.9	2.6	1.8	2.5	55	50	NO	NO	NO	NO	YES
3	3_0279		Residential	G	W	54	49	56	52	55	50	57	52	2.1	2.8	2	2.7	55	50	NO	NO	NO	NO	YES
3	3_0280		Residential	G	W	54	49	57	52	55	50	57	52	2.3	3.1	2.2	2.9	55	50	NO	NO	NO	NO	YES
3	3_0281		Residential	G	E	55	50	56	52	56	51	57	52	1.2	1.7	1.2	1.6	55	50	NO	NO	NO	NO	NO
3	3_0281		Residential	G	W	53	48	56	52	54	48	57	52	3	4.1	2.9	3.9	55	50	NO	NO	NO	NO	YES
3	3_0282		Residential	G	W	54	49	57	53	55	49	57	53	2.9	3.9	2.7	3.7	55	50	NO	NO	NO	NO	YES
3	3_0283		Residential	G	W	54	49	58	53	55	49	58	54	3.5	4.7	3.4	4.6	55	50	NO	NO	NO	NO	YES
3	3_0284		Residential	G	E	55	49	58	54	55	50	59	54	3.3	4.4	3.2	4.3	55	50	NO	NO	NO	NO	YES
3	3_0285		Residential	G	E	55	49	58	54	55	49	59	54	3.8	5	3.5	4.8	55	50	NO	NO	NO	NO	YES
3	3_0286		Residential	G	W	54	49	56	52	55	50	57	52	2	2.8	1.9	2.6	55	50	NO	NO	NO	NO	YES
3	3_0287		Residential	G	W	54	49	55	51	54	49	55	51	1.3	1.8	1.3	1.7	55	50	NO	NO	NO	NO	NO
3	3_0288		Residential	G	W	55	50	55	51	55	50	56	51	0.6	0.9	0.6	0.9	55	50	NO	NO	NO	NO	NO
3	3_0289		Residential	G	SE	55	50	54	49	55	51	54	50	-0.9	-0.7	-0.8	-0.7	55	50	NO	NO	NO	NO	NO
3	3_0290		Residential	G	W	53	48	57	52	54	48	57	52	3.3	4.4	3.2	4.2	55	50	NO	NO	NO	NO	YES
3	3_0291		Residential	G	SW	53	48	57	53	54	48	58	53	3.9	5.1	3.7	4.9	55	50	NO	NO	NO	NO	YES
3	3_0292		Residential	G	SE	53	47	57	52	53	47	57	53	4.2	5.4	4	5.3	55	50	NO	NO	NO	NO	YES
3	3_0293		Residential	G	SW	54	48	57	53	54	49	57	53	3.3	4.4	3.1	4.3	55	50	NO	NO	NO	NO	YES
3	3_0294		Residential	G	S	53	47	58	53	53	47	58	54	4.8	6.2	4.7	6.1	55	50	NO	NO	NO	NO	YES
3	3_0295		Residential	G	S	52	47	57	53	53	47	58	53	4.7	6.1	4.6	5.8	55	50	NO	NO	NO	NO	YES
3	3_0296		Residential	G	S	53	47	58	53	53	48	58	54	4.7	6.1	4.6	5.9	55	50	NO	NO	NO	NO	YES
3	3_0297		Residential	G	S	53	47	58	53	53	48	58	54	4.7	6.1	4.6	6	55	50	NO	NO	NO	NO	YES
3	3_0298		Residential	G	S	53	47	58	54	54	48	58	54	4.9	6.3	4.6	6	55	50	NO	NO	NO	NO	YES
3	3_0299		Residential	G	S	53	47	58	53	53	48	58	54	4.8	6.2	4.6	6	55	50	NO	NO	NO	NO	YES
3	3_0300		Residential	G	S	52	46	57	52	53	47	57	53	4.5	5.8	4.3	5.6	55	50	NO	NO	NO	NO	YES
3	3_0301		Residential	G	S	52	46	57	53	53	47	57	53	4.7	6.1	4.5	5.9	55	50	NO	NO	NO	NO	YES
3	3_0302		Residential	G	SE	52	46	57	52	53	47	57	53	4.5	5.9	4.3	5.7	55	50	NO	NO	NO	NO	YES
3	3_0303		Residential	G	SW	54	48	57	53	54	49	57	53	3.2	4.3	3.1	4.1	55	50	NO	NO	NO	NO	YES
3	3_0304		Residential	G	S	52	46	57	52	53	47	57												

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
3	3_0339		Residential	G	S	52	46	56	51	52	47	56	52	4.2	5.4	4	5.2	55	50	NO	NO	NO	NO	YES
3	3_0340		Residential	G	S	52	47	56	52	53	47	57	52	4.2	5.4	4	5.2	55	50	NO	NO	NO	NO	YES
3	3_0341		Residential	G	S	52	46	56	52	53	47	57	52	4.3	5.5	4.1	5.3	55	50	NO	NO	NO	NO	YES
3	3_0342		Residential	G	S	52	46	56	52	53	47	56	52	4.1	5.3	3.9	5.1	55	50	NO	NO	NO	NO	YES
3	3_0343		Residential	G	S	52	46	56	51	52	47	56	52	4	5.2	3.9	5	55	50	NO	NO	NO	NO	YES
3	3_0344		Residential	G	S	52	46	56	51	52	47	56	51	3.8	4.9	3.6	4.7	55	50	NO	NO	NO	NO	YES
3	3_0345		Residential	G	S	52	46	56	52	53	47	57	52	4.1	5.3	3.9	5.1	55	50	NO	NO	NO	NO	YES
3	3_0346		Residential	G	S	52	47	56	52	53	47	57	52	4.2	5.4	4	5.1	55	50	NO	NO	NO	NO	YES
3	3_0347		Residential	G	SW	53	48	57	52	54	48	57	53	3.5	4.6	3.3	4.3	55	50	NO	NO	NO	NO	YES
3	3_0348		Residential	G	S	52	46	56	51	53	47	56	52	3.9	5	3.7	4.8	55	50	NO	NO	NO	NO	YES
3	3_0349		Residential	G	W	53	48	56	51	54	48	56	52	2.8	3.8	2.7	3.6	55	50	NO	NO	NO	NO	YES
3	3_0350		Residential	G	S	50	44	55	50	51	45	55	50	4.6	5.7	4.4	5.6	55	50	NO	NO	NO	NO	NO
3	3_0350		Residential	1	S	54	49	58	53	55	49	58	54	3.7	4.6	3.4	4.5	55	50	NO	NO	NO	NO	YES
3	3_0351		Residential	G	S	51	45	56	52	52	46	56	52	4.9	6.6	4.7	6.4	55	50	NO	NO	NO	NO	YES
3	3_0351		Residential	1	S	55	49	58	53	55	49	58	54	3.3	4.6	3.1	4.4	55	50	NO	NO	NO	NO	YES
3	3_0352		Residential	G	S	53	47	57	52	53	48	57	53	4.1	5.2	4	5	55	50	NO	NO	NO	NO	YES
3	3_0353		Residential	G	S	53	47	56	52	53	48	57	52	3.9	5	3.8	4.9	55	50	NO	NO	NO	NO	YES
3	3_0354		Residential	G	S	53	47	57	52	53	48	57	53	4.3	5.4	4	5.2	55	50	NO	NO	NO	NO	YES
3	3_0355		Residential	G	S	52	47	56	52	53	47	57	52	4	5.1	3.9	4.9	55	50	NO	NO	NO	NO	YES
3	3_0356		Residential	G	S	52	47	57	52	53	47	57	53	4.4	5.6	4.2	5.4	55	50	NO	NO	NO	NO	YES
3	3_0357		Residential	G	S	52	47	56	52	53	47	57	52	4	5.1	3.8	5	55	50	NO	NO	NO	NO	YES
3	3_0358		Residential	G	S	52	47	56	52	53	47	57	52	4	5.1	3.8	4.9	55	50	NO	NO	NO	NO	YES
3	3_0359		Residential	G	S	52	47	56	52	53	47	56	52	3.8	5	3.7	4.7	55	50	NO	NO	NO	NO	YES
3	3_0360		Residential	G	S	52	46	56	51	52	47	56	52	3.9	4.9	3.6	4.8	55	50	NO	NO	NO	NO	YES
3	3_0361		Residential	G	S	52	46	56	51	52	47	56	52	3.9	4.9	3.6	4.8	55	50	NO	NO	NO	NO	YES
3	3_0362		Residential	G	S	52	46	56	52	52	47	56	52	4.1	5.3	4	5.1	55	50	NO	NO	NO	NO	YES
3	3_0363		Residential	G	SW	53	47	56	52	53	47	56	52	3.3	4.7	3	4.5	55	50	NO	NO	NO	NO	YES
3	3_0364		Residential	G	SW	54	48	56	51	54	49	56	52	2.1	3	1.9	2.9	55	50	NO	NO	NO	NO	YES
3	3_0365		Residential	G	W	53	48	54	50	54	48	55	50	1	1.8	0.9	1.8	55	50	NO	NO	NO	NO	NO
3	3_0365		Residential	1	S	53	47	57	53	54	48	58	53	4.2	5.5	4.1	5.2	55	50	NO	NO	NO	NO	YES
3	3_0366		Residential	G	S	51	46	55	51	52	46	55	51	3.6	4.6	3.5	4.4	55	50	NO	NO	NO	NO	YES
3	3_0367		Residential	G	S	51	46	54	49	51	46	54	50	3	3.8	2.9	3.7	55	50	NO	NO	NO	NO	NO
3	3_0368		Residential	G	S	51	46	54	50	52	46	54	50	3	3.9	2.8	3.8	55	50	NO	NO	NO	NO	NO
3	3_0369		Residential	G	S	51	46	54	50	52	46	55	50	2.9	3.9	2.8	3.7	55	50	NO	NO	NO	NO	NO
3	3_0370		Residential	G	S	51	46	55	50	52	46	55	51	3.8	4.9	3.6	4.8	55	50	NO	NO	NO	NO	YES
3	3_0371		Residential	G	S	50	45	55	50	51	45	55	51	4.5	5.8	4.2	5.6	55	50	NO	NO	NO	NO	YES
3	3_0371		Residential	1	S	54	48	57	53	54	49	58	53	3.9	5	3.6	4.8	55	50	NO	NO	NO	NO	YES
3	3_0372		Residential	G	S	52	46	55	50	52	47	55	51	3.1	4.1	3	3.9	55	50	NO	NO	NO	NO	YES
3	3_0373		Residential	G	W	54	48	55	50	54	49	55	51	1	1.8	0.9	1.7	55	50	NO	NO	NO	NO	NO
3	3_0374		Residential	G	SW	53	48	56	51	54	49	56	52	2.3	3.2	2.1	3.1	55	50	NO	NO	NO	NO	YES
3	3_0375		Residential	G	SW	54	48	56	52	54	49	57	52	2.9	3.9	2.6	3.6	55	50	NO	NO	NO	NO	YES
3	3_0376		Residential	G	SW	53	47	56	51	53	48	56	52	3.2	4.1	3.1	4.							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				dB(A)	dB(A)			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h			
3	3_0412		Residential	G	W	52	46	55	51	52	47	55	51	3.2	4.4	3	4.2	55	50	NO	NO	NO	NO	YES
3	3_0413		Residential	G	SE	52	46	56	52	52	47	57	52	4.5	5.9	4.4	5.7	55	50	NO	NO	NO	NO	YES
3	3_0414		Residential	G	SE	51	46	56	51	52	46	56	52	4.4	5.6	4.1	5.4	55	50	NO	NO	NO	NO	YES
3	3_0415		Residential	G	S	52	46	57	52	53	47	57	52	4.6	6	4.4	5.7	55	50	NO	NO	NO	NO	YES
3	3_0416		Residential	G	S	52	47	57	53	53	47	57	53	4.6	6.1	4.4	5.9	55	50	NO	NO	NO	NO	YES
3	3_0417		Residential	G	S	52	46	57	52	53	47	57	52	4.4	5.9	4.2	5.7	55	50	NO	NO	NO	NO	YES
3	3_0418		Residential	G	S	52	46	56	52	53	47	57	52	4.5	6	4.2	5.8	55	50	NO	NO	NO	NO	YES
3	3_0419		Residential	G	S	52	46	56	52	52	47	57	52	4.6	6	4.3	5.8	55	50	NO	NO	NO	NO	YES
3	3_0420		Residential	G	S	52	46	56	52	52	47	57	52	4.5	6	4.3	5.8	55	50	NO	NO	NO	NO	YES
3	3_0421		Residential	G	S	52	46	56	52	52	46	57	52	4.5	5.9	4.2	5.7	55	50	NO	NO	NO	NO	YES
3	3_0422		Residential	G	S	52	46	57	52	52	46	57	53	4.9	6.4	4.6	6.1	55	50	NO	NO	NO	NO	YES
3	3_0423		Residential	G	S	51	45	57	52	52	46	57	52	5.1	7	4.9	6.6	55	50	NO	NO	NO	NO	YES
3	3_0423		Residential	1	S	54	48	60	55	55	49	60	56	5.4	7.2	5.1	6.8	55	50	YES	YES	NO	NO	YES
3	3_0424		Residential	G	S	53	46	57	52	53	47	57	53	4.3	6	4	5.7	55	50	NO	NO	NO	NO	YES
3	3_0425		Residential	G	S	53	47	57	52	54	48	57	52	3.4	5.2	3.2	4.9	55	50	NO	NO	NO	NO	YES
3	3_0426		Residential	G	S	54	48	56	52	55	48	57	52	2.5	4.4	2.1	4.1	55	50	NO	NO	NO	NO	YES
3	3_0427		Residential	G	S	57	50	57	52	58	51	57	52	-0.2	2	-0.6	1.5	55	50	NO	NO	NO	NO	NO
3	3_0427		Residential	G	S	55	49	56	52	56	50	57	52	0.8	2.9	0.4	2.4	55	50	NO	NO	NO	NO	YES
3	3_0428		Residential	G	S	57	51	58	54	58	52	58	54	0.5	2.9	0	2.3	55	50	NO	NO	NO	NO	YES
3	3_0428		Residential	1	S	59	52	61	56	60	53	61	57	1.6	3.9	1.2	3.4	55	50	YES	YES	NO	NO	YES
3	3_0429		Residential	G	S	52	46	56	52	53	47	57	52	4	5.6	3.7	5.3	55	50	NO	NO	NO	NO	YES
3	3_0430		Residential	G	S	52	46	57	52	53	47	57	52	4.5	6.1	4.3	5.9	55	50	NO	NO	NO	NO	YES
3	3_0431		Residential	G	S	52	46	57	52	53	47	57	52	4.4	6.1	4.2	5.8	55	50	NO	NO	NO	NO	YES
3	3_0432		Residential	G	S	52	46	57	52	53	47	57	52	4.6	6.1	4.3	5.9	55	50	NO	NO	NO	NO	YES
3	3_0433		Residential	G	S	51	45	56	51	52	46	56	51	4.5	6	4.2	5.8	55	50	NO	NO	NO	NO	YES
3	3_0434		Residential	G	S	51	45	56	51	52	46	56	51	4.6	6.1	4.4	5.8	55	50	NO	NO	NO	NO	YES
3	3_0435		Residential	G	S	51	45	55	51	52	46	56	51	4.4	5.8	4.2	5.6	55	50	NO	NO	NO	NO	YES
3	3_0436		Residential	G	S	51	45	55	50	51	46	55	50	3.7	5	3.5	4.9	55	50	NO	NO	NO	NO	NO
3	3_0437		Residential	G	W	53	47	55	50	54	48	55	51	1.8	2.9	1.6	2.7	55	50	NO	NO	NO	NO	YES
3	3_0438		Residential	G	S	51	45	55	50	51	46	55	51	4	5.2	3.8	5.1	55	50	NO	NO	NO	NO	YES
3	3_0439		Residential	G	S	51	45	55	51	51	46	55	51	4.2	5.5	4	5.3	55	50	NO	NO	NO	NO	YES
3	3_0440		Residential	G	S	51	45	55	51	52	46	56	51	4.2	5.5	4.1	5.3	55	50	NO	NO	NO	NO	YES
3	3_0441		Residential	G	E	52	47	55	51	53	48	56	51	2.8	3.6	2.7	3.5	55	50	NO	NO	NO	NO	YES
3	3_0442		Residential	G	S	52	46	56	52	53	47	57	52	4.4	5.7	4.1	5.4	55	50	NO	NO	NO	NO	YES
3	3_0443		Residential	G	S	52	46	56	52	52	47	56	52	4.3	5.6	4	5.4	55	50	NO	NO	NO	NO	YES
3	3_0444		Residential	G	S	51	46	56	51	52	46	56	51	4.1	5.5	4	5.2	55	50	NO	NO	NO	NO	YES
3	3_0445		Residential	G	S	50	44	56	51	51	45	56	51	5.2	6.8	4.9	6.5	55	50	NO	NO	NO	NO	YES
3	3_0445		Residential	1	S	53	47	58	53	54	48	58	54	4.8	6.2	4.5	6	55	50	NO	NO	NO	NO	YES
3	3_0446		Residential	G	E	53	48	55	50	53	48	55	51	2.1	2.7	2	2.7	55	50	NO	NO	NO	NO	YES
3	3_0447		Residential	G	SE	52	46	55	51	52	47	56	51	3.6	5.1	3.4	4.8	55	50	NO	NO	NO	NO	YES
3	3_0448		Residential	G	S	52	46	55	51	52	47	56	51	3.4	4.9	3.2	4.6	55	50	NO	NO	NO	NO	YES
3	3_0449		Residential	G	S	52	46	55	51	53	47	56	51	3.3	4.7	3.1	4.5	55	50	NO	NO	NO	NO	YES
3	3_0450		Residential	G	S	53	47	56	52	53	47	56	52	3.5	5.1	3.3	4.8	55	50	NO	NO	NO		

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
3	3_0485		Residential	G	S	51	45	54	50	52	46	55	50	3.4	4.5	3.1	4.3	55	50	NO	NO	NO	NO	NO
3	3_0486		Residential	G	E	53	48	53	48	53	48	53	49	-0.1	0.3	0	0.3	55	50	NO	NO	NO	NO	NO
3	3_0487		Residential	G	NE	54	49	53	49	54	49	54	49	-0.7	-0.4	-0.6	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0488		Residential	G	E	54	50	54	49	55	50	54	49	-0.8	-0.5	-0.8	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0489		Residential	G	S	51	46	54	49	52	46	54	50	2.2	3.3	2	3.2	55	50	NO	NO	NO	NO	NO
3	3_0490		Residential	G	S	52	46	54	49	53	47	54	49	1.7	3.1	1.5	2.8	55	50	NO	NO	NO	NO	NO
3	3_0491		Residential	G	W	55	49	53	48	56	50	54	49	-1.9	-1	-2.2	-1.2	55	50	NO	NO	NO	NO	NO
3	3_0492		Residential	G	W	60	53	55	50	61	54	56	51	-4.4	-3.1	-4.6	-3.4	55	50	NO	NO	NO	NO	NO
3	3_0493		Residential	G	SW	53	48	54	49	54	48	54	50	0.6	1.6	0.4	1.5	55	50	NO	NO	NO	NO	NO
3	3_0494		Residential	G	SW	53	48	54	49	54	48	54	50	0.6	1.5	0.3	1.3	55	50	NO	NO	NO	NO	NO
3	3_0495		Residential	G	SW	54	49	54	50	55	49	55	50	0.1	1	0	0.9	55	50	NO	NO	NO	NO	NO
3	3_0496		Residential	G	E	54	49	54	50	54	49	55	50	0.6	1	0.6	1	55	50	NO	NO	NO	NO	NO
3	3_0497		Residential	G	SW	54	48	54	49	54	49	54	50	0.2	1	0	0.9	55	50	NO	NO	NO	NO	NO
3	3_0498		Residential	G	W	53	46	56	51	54	47	56	51	2.7	4.6	2.4	4.2	55	50	NO	NO	NO	NO	YES
3	3_0499		Residential	G	W	52	46	56	51	53	47	56	51	3.3	5.1	2.9	4.8	55	50	NO	NO	NO	NO	YES
3	3_0500		Residential	G	S	52	45	56	52	52	46	57	52	4.6	6.4	4.2	6	55	50	NO	NO	NO	NO	YES
3	3_0501		Residential	G	W	53	47	57	53	54	48	58	53	4	5.9	3.6	5.6	55	50	NO	NO	NO	NO	YES
3	3_0502		Residential	G	S	54	47	57	53	54	48	58	53	3.5	5.5	3.1	5.1	55	50	NO	NO	NO	NO	YES
3	3_0502		Residential	1	S	57	51	61	57	58	51	61	57	3.8	5.9	3.5	5.4	55	50	YES	YES	NO	NO	YES
3	3_0503		Residential	G	S	56	49	60	55	57	50	60	56	4	5.9	3.6	5.5	55	50	YES	YES	NO	NO	YES
3	3_0504		Residential	G	E	60	53	57	52	60	54	57	53	-2.8	-0.7	-3.2	-1.1	55	50	NO	NO	NO	NO	NO
3	3_0504		Residential	G	W	53	46	55	51	53	47	56	51	2.6	4.1	2.3	3.9	55	50	NO	NO	NO	NO	YES
3	3_0505		Residential	G	E	60	54	56	52	61	54	57	52	-3.8	-1.6	-4.2	-2.1	55	50	NO	NO	NO	NO	NO
3	3_0505		Residential	G	W	53	47	55	51	53	47	56	51	2.5	4	2.3	3.8	55	50	NO	NO	NO	NO	YES
3	3_0506		Residential	G	E	60	53	56	51	60	54	56	51	-4	-1.9	-4.4	-2.4	55	50	NO	NO	NO	NO	NO
3	3_0507		Residential	G	W	53	47	55	50	53	47	55	51	2.2	3.6	1.9	3.4	55	50	NO	NO	NO	NO	YES
3	3_0508		Residential	G	S	57	51	56	51	58	52	56	52	-1.5	0.6	-1.9	0.2	55	50	NO	NO	NO	NO	NO
3	3_0509		Residential	G	E	60	54	55	50	61	54	55	51	-5.1	-3.1	-5.5	-3.5	55	50	NO	NO	NO	NO	NO
3	3_0510		Residential	G	E	59	53	55	50	60	54	55	51	-4.7	-2.7	-5	-3.1	55	50	NO	NO	NO	NO	NO
3	3_0511		Residential	G	E	60	53	55	50	60	54	55	50	-5	-3	-5.3	-3.4	55	50	NO	NO	NO	NO	NO
3	3_0512		Residential	G	E	60	53	55	50	60	54	55	51	-4.9	-2.9	-5.2	-3.3	55	50	NO	NO	NO	NO	NO
3	3_0513		Residential	G	E	58	52	54	50	59	53	54	50	-4.3	-2.3	-4.7	-2.8	55	50	NO	NO	NO	NO	NO
3	3_0514		Residential	G	E	60	54	55	50	61	54	55	51	-5.3	-3.4	-5.7	-3.8	55	50	NO	NO	NO	NO	NO
3	3_0515		Residential	G	E	59	52	54	49	59	53	54	50	-4.7	-2.9	-5	-3.3	55	50	NO	NO	NO	NO	NO
3	3_0516		Residential	G	E	59	53	54	50	60	53	55	50	-4.6	-3	-5	-3.4	55	50	NO	NO	NO	NO	NO
3	3_0516		Residential	1	S	57	50	57	52	58	51	57	53	-0.3	1.7	-0.8	1.3	55	50	NO	NO	NO	NO	NO
3	3_0517		Residential	G	E	59	53	55	50	60	54	55	51	-4.6	-2.9	-5	-3.3	55	50	NO	NO	NO	NO	NO
3	3_0518		Residential	G	W	52	46	53	48	53	47	53	48	0.1	1.4	-0.3	1.1	55	50	NO	NO	NO	NO	NO
3	3_0518		Residential	1	S	55	49	55	51	56	50	55	51	-0.2	1.7	-0.5	1.3	55	50	NO	NO	NO	NO	NO
3	3_0519		Residential	G	E	60	53	55	50	60	54	55	50	-4.6	-3.4	-4.9	-3.8	55	50	NO	NO	NO	NO	NO
3	3_0520		Residential	G	E	59	53	55	49	59	53	55	50	-4	-3.1	-4.3	-3.5	55	50	NO	NO	NO	NO	NO
3	3_0520		Residential	1	E	61	54	57	52	61	55	58	52	-3.5	-2.4	-								

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
3	3_0556		Residential	G	E	54	48	54	49	54	49	54	49	0	0.7	-0.1	0.6	55	50	NO	NO	NO	NO	NO
3	3_0557		Residential	G	E	54	48	54	49	54	49	54	50	0.3	1	0.2	0.9	55	50	NO	NO	NO	NO	NO
3	3_0558		Residential	G	E	52	47	53	48	53	48	53	48	0.1	0.9	0	0.8	55	50	NO	NO	NO	NO	NO
3	3_0559		Residential	G	E	53	48	54	49	54	49	54	50	0.4	1.2	0.3	1.1	55	50	NO	NO	NO	NO	NO
3	3_0560		Residential	G	E	54	48	54	49	54	49	54	50	0.5	1.1	0.3	1	55	50	NO	NO	NO	NO	NO
3	3_0561		Residential	G	E	52	47	54	49	53	47	54	49	1.4	2.2	1.3	2	55	50	NO	NO	NO	NO	NO
3	3_0562		Residential	G	E	53	48	55	50	54	49	55	50	1.2	2	1	1.9	55	50	NO	NO	NO	NO	NO
3	3_0563		Residential	G	E	54	48	55	51	54	49	56	51	1.8	2.8	1.7	2.6	55	50	NO	NO	NO	NO	YES
3	3_0564		Residential	G	E	53	48	55	51	54	48	56	51	1.9	3	1.8	2.8	55	50	NO	NO	NO	NO	YES
3	3_0565		Residential	G	E	53	48	56	51	54	48	56	52	2.4	3.4	2.2	3.3	55	50	NO	NO	NO	NO	YES
3	3_0566		Residential	G	E	53	48	56	52	54	48	57	52	2.9	4	2.7	3.8	55	50	NO	NO	NO	NO	YES
3	3_0567		Residential	G	E	53	48	57	52	54	48	57	52	3.2	4.4	3	4.2	55	50	NO	NO	NO	NO	YES
3	3_0568		Residential	G	E	54	48	57	53	55	49	58	53	3.3	4.6	3	4.3	55	50	NO	NO	NO	NO	YES
3	3_0569		Residential	G	E	53	47	56	51	53	48	56	52	3.2	4.4	3	4.2	55	50	NO	NO	NO	NO	YES
3	3_0570		Residential	G	E	52	47	55	50	53	47	55	50	2.5	3.5	2.3	3.3	55	50	NO	NO	NO	NO	NO
3	3_0571		Residential	G	E	53	48	55	51	54	48	56	51	2.1	3.1	1.9	2.9	55	50	NO	NO	NO	NO	YES
3	3_0572		Residential	G	E	52	47	54	49	53	47	54	49	1.5	2.4	1.3	2.3	55	50	NO	NO	NO	NO	NO
3	3_0573		Residential	G	E	53	48	55	50	54	48	55	51	1.5	2.5	1.4	2.4	55	50	NO	NO	NO	NO	YES
3	3_0574		Residential	G	E	53	47	54	49	53	48	54	50	1.2	1.9	1.1	1.8	55	50	NO	NO	NO	NO	NO
3	3_0575		Residential	G	E	53	48	55	50	54	48	55	50	1.5	2.3	1.4	2.2	55	50	NO	NO	NO	NO	NO
3	3_0576		Residential	G	E	53	48	55	50	54	48	55	50	1.4	2.2	1.3	2.1	55	50	NO	NO	NO	NO	NO
3	3_0576		Residential	1	S	52	46	57	52	53	47	57	53	4.6	6.3	4.3	5.9	55	50	NO	NO	NO	NO	YES
3	3_0577		Residential	G	E	53	48	54	50	54	49	55	50	1	1.8	0.9	1.7	55	50	NO	NO	NO	NO	NO
3	3_0577		Residential	1	E	55	50	57	52	56	50	57	52	1.4	2.5	1.3	2.3	55	50	NO	NO	NO	NO	YES
3	3_0578		Residential	G	E	54	48	54	50	54	49	55	50	0.7	1.5	0.6	1.4	55	50	NO	NO	NO	NO	NO
3	3_0579		Residential	G	E	52	47	53	48	53	47	53	49	1	1.7	0.9	1.6	55	50	NO	NO	NO	NO	NO
3	3_0580		Residential	G	S	50	45	54	49	51	45	54	50	3.5	4.7	3.2	4.6	55	50	NO	NO	NO	NO	NO
3	3_0581		Residential	G	E	54	48	54	49	54	49	54	49	-0.1	0.5	-0.3	0.5	55	50	NO	NO	NO	NO	NO
3	3_0582		Residential	G	E	54	48	54	49	54	49	54	50	0.1	0.7	-0.1	0.7	55	50	NO	NO	NO	NO	NO
3	3_0583		Residential	G	E	53	48	53	49	53	48	54	49	0.3	0.9	0.2	0.9	55	50	NO	NO	NO	NO	NO
3	3_0584		Residential	G	E	54	48	54	49	55	49	54	50	-0.1	0.7	-0.3	0.6	55	50	NO	NO	NO	NO	NO
3	3_0585		Residential	G	E	54	49	53	48	54	49	53	49	-0.9	-0.4	-1.1	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0585		Residential	1	E	56	50	55	51	56	51	56	51	-0.3	0.5	-0.4	0.4	55	50	NO	NO	NO	NO	NO
3	3_0586		Residential	G	E	53	48	53	48	54	49	53	48	-0.9	-0.3	-1.1	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0586		Residential	1	E	55	50	55	51	56	50	56	51	-0.1	0.7	-0.3	0.6	55	50	NO	NO	NO	NO	NO
3	3_0587		Residential	G	E	53	48	53	48	54	49	53	48	-0.6	0	-0.8	-0.1	55	50	NO	NO	NO	NO	NO
3	3_0587		Residential	1	E	55	50	55	51	56	50	56	51	0.1	1	-0.1	0.8	55	50	NO	NO	NO	NO	NO
3	3_0587		Residential	1	S	52	45	55	51	52	46	56	51	3.6	5.2	3.4	4.8	55	50	NO	NO	NO	NO	YES
3	3_0588		Residential	G	E	53	48	53	48	54	48	53	49	-0.4	0.3	-0.4	0.3	55	50	NO	NO	NO	NO	NO
3	3_0589		Residential	G	E	53	47	52	48	53	48	53	48	-0.4	0.2	-0.6	0.1	55	50	NO	NO	NO	NO	NO
3	3_0590		Residential	G	E	53	48	53	49	54	48	54	49	0	0.8	-0.1	0.7	55	50	NO	NO	NO	NO	NO
3	3_0591		Residential	G	E	53	47	53	49	53	48	54	49	0.7	1.5	0.								

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
3	3_0623		Residential	G	SW	51	45	53	48	52	46	54	49	1.8	3.3	1.5	3	55	50	NO	NO	NO	NO	NO
3	3_0624		Residential	G	S	50	44	53	49	51	45	54	49	3.1	4.7	2.8	4.4	55	50	NO	NO	NO	NO	NO
3	3_0625		Residential	G	S	50	44	53	48	50	44	53	49	3.3	4.7	3	4.5	55	50	NO	NO	NO	NO	NO
3	3_0626		Residential	G	S	50	44	53	48	50	44	53	49	3.2	4.7	3	4.5	55	50	NO	NO	NO	NO	NO
3	3_0627		Residential	G	S	50	44	53	48	50	44	53	49	3.3	4.7	3	4.4	55	50	NO	NO	NO	NO	NO
3	3_0628		Residential	G	S	50	44	53	48	50	44	53	49	3.2	4.6	2.9	4.4	55	50	NO	NO	NO	NO	NO
3	3_0629		Residential	G	S	50	44	53	48	50	44	53	49	3.2	4.6	2.9	4.4	55	50	NO	NO	NO	NO	NO
3	3_0630		Residential	G	SE	50	44	53	48	51	45	53	48	2.4	3.7	2.2	3.5	55	50	NO	NO	NO	NO	NO
3	3_0631		Residential	G	SE	50	45	52	48	51	45	53	48	1.8	3	1.6	2.8	55	50	NO	NO	NO	NO	NO
3	3_0632		Residential	G	W	52	45	52	47	52	46	53	48	0.7	2.2	0.5	1.8	55	50	NO	NO	NO	NO	NO
3	3_0633		Residential	G	W	51	45	53	48	52	46	53	48	1.1	2.6	0.8	2.3	55	50	NO	NO	NO	NO	NO
3	3_0634		Residential	G	W	51	45	53	48	52	46	53	48	1.3	2.7	1	2.4	55	50	NO	NO	NO	NO	NO
3	3_0635		Residential	G	W	51	45	53	48	52	45	53	48	1.7	3.3	1.4	3	55	50	NO	NO	NO	NO	NO
3	3_0636		Residential	G	W	52	45	53	48	52	46	53	49	1.3	2.8	1	2.5	55	50	NO	NO	NO	NO	NO
3	3_0637		Residential	G	W	53	46	54	49	54	47	54	49	1	2.4	0.6	2.1	55	50	NO	NO	NO	NO	NO
3	3_0638		Residential	G	S	49	43	54	49	50	44	54	49	4.4	6.2	4.1	5.9	55	50	NO	NO	NO	NO	NO
3	3_0638		Residential	1	S	52	45	55	51	53	46	56	51	3.6	5.3	3.3	5	55	50	NO	NO	NO	NO	YES
3	3_0639		Residential	G	S	50	43	53	49	50	44	54	49	3.8	5.4	3.5	5.1	55	50	NO	NO	NO	NO	NO
3	3_0640		Residential	G	W	52	46	53	48	53	46	53	48	0.8	2.3	0.5	2	55	50	NO	NO	NO	NO	NO
3	3_0641		Residential	G	W	52	45	53	48	53	46	53	48	0.7	2.3	0.3	1.9	55	50	NO	NO	NO	NO	NO
3	3_0641		Residential	1	S	52	45	56	51	52	46	56	52	4.1	5.8	3.8	5.5	55	50	NO	NO	NO	NO	YES
3	3_0642		Residential	G	W	52	46	53	48	53	46	53	48	0.9	2.3	0.6	2	55	50	NO	NO	NO	NO	NO
3	3_0643		Residential	G	W	52	46	53	48	53	46	53	48	0.6	1.9	0.2	1.6	55	50	NO	NO	NO	NO	NO
3	3_0644		Residential	G	W	51	45	52	47	52	45	52	47	1	2.4	0.7	2.1	55	50	NO	NO	NO	NO	NO
3	3_0645		Residential	G	W	52	45	52	48	52	46	53	48	0.9	2.3	0.7	2	55	50	NO	NO	NO	NO	NO
3	3_0646		Residential	G	W	52	45	53	48	52	46	53	48	1	2.5	0.7	2.2	55	50	NO	NO	NO	NO	NO
3	3_0647		Residential	G	W	53	46	53	48	53	47	54	49	0.6	2	0.2	1.6	55	50	NO	NO	NO	NO	NO
3	3_0648		Residential	G	W	52	46	53	48	53	47	54	49	0.9	2.4	0.7	2.1	55	50	NO	NO	NO	NO	NO
3	3_0649		Residential	G	S	50	44	53	49	50	44	54	49	3.7	5.3	3.4	5	55	50	NO	NO	NO	NO	NO
3	3_0650		Residential	G	S	50	44	54	49	51	45	54	50	3.7	5.3	3.4	5	55	50	NO	NO	NO	NO	NO
3	3_0651		Residential	G	S	50	44	54	49	51	44	54	49	3.7	5.4	3.4	5	55	50	NO	NO	NO	NO	NO
3	3_0652		Residential	G	S	50	43	53	49	50	44	54	49	3.6	5.4	3.4	5.1	55	50	NO	NO	NO	NO	NO
3	3_0653		Residential	G	W	51	45	53	48	52	46	54	49	1.8	3.3	1.5	3	55	50	NO	NO	NO	NO	NO
3	3_0654		Residential	G	W	52	45	53	48	52	46	54	49	1.4	2.9	1.1	2.6	55	50	NO	NO	NO	NO	NO
3	3_0655		Residential	G	W	52	45	53	48	52	46	54	49	1.5	3.1	1.1	2.8	55	50	NO	NO	NO	NO	NO
3	3_0656		Residential	G	W	51	45	53	48	52	46	54	49	1.6	3.2	1.3	2.9	55	50	NO	NO	NO	NO	NO
3	3_0657		Residential	G	W	52	46	53	49	53	46	54	49	1.3	3	1.1	2.6	55	50	NO	NO	NO	NO	NO
3	3_0658		Residential	G	SW	51	45	53	48	52	46	54	49	1.6	3.3	1.4	2.9	55	50	NO	NO	NO	NO	NO
3	3_0659		Residential	G	W	51	45	53	48	52	46	53	48	1.5	3.2	1.2	2.7	55	50	NO	NO	NO	NO	NO
3	3_0660		Residential	G	SW	51	45	53	48	52	46	53	48	1.5	3.1	1.2	2.7	55	50	NO	NO	NO	NO	NO
3	3_0661		Residential	G	SW	52	45	53	48	52	46	54	49	1.5	3.1	1.1	2.7	55	50	NO	NO	NO	NO	NO
3	3_0662		Residential	G	SW	51	45	53	48	52	45	53	48	1.1										

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
3	3_0698		Residential	G	S	49	43	52	48	50	44	53	48	2.9	4.3	2.7	4.1	55	50	NO	NO	NO	NO	NO
3	3_0699		Residential	G	S	49	43	52	48	50	44	53	48	3.1	4.4	2.8	4.2	55	50	NO	NO	NO	NO	NO
3	3_0700		Residential	G	W	52	46	52	47	53	47	53	48	0.1	1.5	-0.1	1.1	55	50	NO	NO	NO	NO	NO
3	3_0701		Residential	G	W	52	45	52	47	52	46	53	48	0.6	1.9	0.2	1.6	55	50	NO	NO	NO	NO	NO
3	3_0702		Residential	G	W	53	46	53	48	53	47	53	48	0.1	1.5	-0.2	1.2	55	50	NO	NO	NO	NO	NO
3	3_0703		Residential	G	W	52	46	52	47	53	47	53	48	0.1	1.5	-0.1	1.2	55	50	NO	NO	NO	NO	NO
3	3_0704		Residential	G	S	49	43	52	47	50	44	52	48	2.6	4	2.4	3.7	55	50	NO	NO	NO	NO	NO
3	3_0705		Residential	G	S	49	43	52	47	50	44	53	48	3	4.4	2.7	4.1	55	50	NO	NO	NO	NO	NO
3	3_0706		Residential	G	SE	51	46	52	47	52	46	53	48	0.8	1.9	0.7	1.7	55	50	NO	NO	NO	NO	NO
3	3_0707		Residential	G	SW	50	44	52	47	51	45	53	48	1.9	3.5	1.7	3.2	55	50	NO	NO	NO	NO	NO
3	3_0708		Residential	G	SW	50	44	52	48	51	44	53	48	2.5	3.9	2.2	3.6	55	50	NO	NO	NO	NO	NO
3	3_0709		Residential	G	SW	50	44	53	48	51	44	53	48	2.6	4.1	2.3	3.8	55	50	NO	NO	NO	NO	NO
3	3_0710		Residential	G	W	51	45	52	47	52	45	52	47	0.6	2.1	0.4	1.8	55	50	NO	NO	NO	NO	NO
3	3_0711		Residential	G	SW	53	46	54	49	54	47	55	49	1.1	2.7	0.8	2.3	55	50	NO	NO	NO	NO	NO
3	3_0712		Residential	G	SW	53	46	54	49	54	47	55	50	1.5	3	1.1	2.6	55	50	NO	NO	NO	NO	NO
3	3_0713		Residential	G	SW	53	46	54	49	54	47	54	49	0.9	2.5	0.6	2.1	55	50	NO	NO	NO	NO	NO
3	3_0714		Residential	G	NW	56	50	54	48	57	51	55	49	-2.2	-1.5	-2.4	-1.7	55	50	NO	NO	NO	NO	NO
3	3_0715		Residential	G	W	53	46	53	48	54	47	54	49	0.6	2.1	0.2	1.7	55	50	NO	NO	NO	NO	NO
3	3_0716		Residential	G	NW	56	50	54	48	57	51	54	49	-2.4	-1.7	-2.7	-1.9	55	50	NO	NO	NO	NO	NO
3	3_0717		Residential	G	NW	57	50	54	48	58	51	55	49	-2.6	-1.9	-2.8	-2.2	55	50	NO	NO	NO	NO	NO
3	3_0718		Residential	G	NE	56	50	54	48	57	51	54	49	-2.1	-1.3	-2.4	-1.7	55	50	NO	NO	NO	NO	NO
3	3_0719		Residential	G	NE	55	49	53	48	56	50	54	48	-2	-1.3	-2.2	-1.5	55	50	NO	NO	NO	NO	NO
3	3_0720		Residential	G	NE	55	49	53	48	56	50	54	48	-2	-1.3	-2.3	-1.5	55	50	NO	NO	NO	NO	NO
3	3_0721		Residential	G	SE	52	45	53	48	52	46	54	49	1.8	3	1.6	2.8	55	50	NO	NO	NO	NO	NO
3	3_0722		Residential	G	NW	55	49	53	48	56	49	54	48	-1.7	-0.7	-2	-1.1	55	50	NO	NO	NO	NO	NO
3	3_0723		Residential	G	NW	56	50	54	48	57	50	54	48	-2.5	-1.8	-2.8	-2.1	55	50	NO	NO	NO	NO	NO
3	3_0724		Residential	G	NE	54	48	53	47	55	49	53	48	-1.7	-0.8	-1.8	-1	55	50	NO	NO	NO	NO	NO
3	3_0725		Residential	G	SE	50	44	53	48	51	45	53	49	2.8	4.2	2.5	3.9	55	50	NO	NO	NO	NO	NO
3	3_0726		Residential	G	NE	54	48	53	47	54	48	53	48	-1.1	-0.1	-1.4	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0727		Residential	G	NW	56	50	54	48	57	51	54	48	-2.6	-2	-2.8	-2.2	55	50	NO	NO	NO	NO	NO
3	3_0728		Residential	G	NW	56	50	54	48	57	51	54	48	-2.6	-2	-2.9	-2.3	55	50	NO	NO	NO	NO	NO
3	3_0729		Residential	G	NW	56	50	54	48	57	51	54	48	-2.6	-2	-2.9	-2.3	55	50	NO	NO	NO	NO	NO
3	3_0730		Residential	G	NW	56	50	54	48	57	51	54	48	-2.7	-2.1	-2.9	-2.4	55	50	NO	NO	NO	NO	NO
3	3_0731		Residential	G	NW	56	50	54	48	57	51	54	48	-2.8	-2.1	-3	-2.4	55	50	NO	NO	NO	NO	NO
3	3_0732		Residential	G	NW	56	50	53	47	57	51	54	47	-3.3	-2.9	-3.5	-3.2	55	50	NO	NO	NO	NO	NO
3	3_0732		Residential	1	NW	57	51	54	49	58	52	55	49	-2.9	-2.2	-3.1	-2.5	55	50	NO	NO	NO	NO	NO
3	3_0733		Residential	G	N	56	50	54	48	57	51	54	48	-2.9	-2.4	-3.1	-2.6	55	50	NO	NO	NO	NO	NO
3	3_0734		Residential	G	N	56	50	53	47	57	50	54	48	-2.8	-2.2	-3	-2.5	55	50	NO	NO	NO	NO	NO
3	3_0735		Residential	G	E	55	49	54	49	55	50	54	49	-0.7	-0.2	-0.9	-0.3	55	50	NO	NO	NO	NO	NO
3	3_0735		Residential	1	E	56	51	56	51	57	51	56	51	-0.6	0.1	-0.8	0	55	50	NO	NO	NO	NO	NO
3	3_0736		Residential	G	W	52	46	52	47	53	47	53	48	-0.1	1.1	-0.4	0.8	55	50	NO	NO	NO	NO	NO
3	3_0737		Residential	G	S	50	44	53	48	50	44													

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	Day	Night	Day	Night	Day	Night	
3	3_0772		Residential	G	S	54	48	55	50	55	49	55	50	0.4	1.9	0.1	1.6	55	50	NO	NO	NO	NO	NO
3	3_0773		Residential	G	S	53	47	54	50	54	48	55	50	1.5	2.9	1.3	2.6	55	50	NO	NO	NO	NO	NO
3	3_0774		Residential	G	S	52	47	54	50	53	47	55	50	2	3.2	1.8	3	55	50	NO	NO	NO	NO	NO
3	3_0775		Residential	G	W	60	54	58	52	61	55	58	53	-2.5	-2	-2.9	-2.3	55	50	NO	NO	NO	NO	NO
3	3_0776		Residential	G	N	59	53	55	49	59	54	56	50	-3.5	-3.5	-3.6	-3.6	55	50	NO	NO	NO	NO	NO
3	3_0777		Residential	G	N	58	53	55	49	59	53	55	50	-3.6	-3.6	-3.7	-3.6	55	50	NO	NO	NO	NO	NO
3	3_0778		Residential	G	N	58	53	54	49	59	53	55	49	-3.7	-3.7	-3.7	-3.7	55	50	NO	NO	NO	NO	NO
3	3_0779		Residential	G	S	52	47	54	50	53	47	55	50	2.1	3.2	2	3	55	50	NO	NO	NO	NO	NO
3	3_0780		Residential	G	SE	52	47	54	49	53	48	54	50	1.4	2.1	1.3	2	55	50	NO	NO	NO	NO	NO
3	3_0781		Residential	G	SW	53	47	54	49	54	48	54	49	0.4	1.5	0.1	1.3	55	50	NO	NO	NO	NO	NO
3	3_0782		Residential	G	W	56	51	54	49	57	51	55	50	-2	-1.5	-2.2	-1.6	55	50	NO	NO	NO	NO	NO
3	3_0783		Residential	G	SW	54	49	54	49	55	49	54	50	-0.3	0.5	-0.5	0.4	55	50	NO	NO	NO	NO	NO
3	3_0784		Residential	G	SW	54	49	54	49	55	49	54	50	-0.2	0.5	-0.4	0.4	55	50	NO	NO	NO	NO	NO
3	3_0785		Residential	G	SW	54	48	54	49	54	49	54	50	0.2	0.9	0	0.9	55	50	NO	NO	NO	NO	NO
3	3_0786		Residential	G	SW	53	47	53	49	53	48	54	49	0.7	1.6	0.5	1.4	55	50	NO	NO	NO	NO	NO
3	3_0787		Residential	G	SW	53	48	54	49	54	48	54	49	0.5	1.4	0.3	1.3	55	50	NO	NO	NO	NO	NO
3	3_0788		Residential	G	SW	54	48	54	49	55	49	54	49	-0.2	0.8	-0.5	0.6	55	50	NO	NO	NO	NO	NO
3	3_0789		Residential	G	SW	55	49	54	49	55	49	55	50	-0.5	0.5	-0.8	0.3	55	50	NO	NO	NO	NO	NO
3	3_0790		Residential	G	SW	55	49	55	49	56	50	55	50	-0.4	0.6	-0.7	0.4	55	50	NO	NO	NO	NO	NO
3	3_0791		Residential	G	SW	57	51	55	50	57	51	56	51	-1.3	-0.6	-1.4	-0.8	55	50	NO	NO	NO	NO	NO
3	3_0792		Residential	G	SW	57	51	55	50	57	52	56	51	-1.5	-1.1	-1.7	-1.1	55	50	NO	NO	NO	NO	NO
3	3_0793		Residential	G	SW	56	50	55	50	57	51	55	50	-1	-0.3	-1.2	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0794		Residential	G	SW	55	49	54	50	56	50	55	50	-0.5	0.4	-0.7	0.3	55	50	NO	NO	NO	NO	NO
3	3_0795		Residential	G	SE	53	48	54	49	53	48	54	50	1	1.6	1	1.5	55	50	NO	NO	NO	NO	NO
3	3_0796		Residential	G	SE	52	47	53	49	53	48	54	49	0.9	1.4	0.8	1.4	55	50	NO	NO	NO	NO	NO
3	3_0797		Residential	G	SW	57	52	55	51	58	52	56	51	-1.7	-1.4	-1.9	-1.4	55	50	NO	NO	NO	NO	NO
3	3_0798		Residential	G	SW	57	51	55	50	57	52	56	51	-1.4	-1	-1.5	-1	55	50	NO	NO	NO	NO	NO
3	3_0799		Residential	G	SW	56	51	55	51	57	52	56	51	-1	-0.6	-1.1	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0800		Residential	G	SW	55	50	55	50	56	51	55	51	-0.6	0	-0.6	-0.1	55	50	NO	NO	NO	NO	NO
3	3_0801		Residential	G	SW	55	50	55	50	56	51	55	50	-0.6	-0.1	-0.7	-0.1	55	50	NO	NO	NO	NO	NO
3	3_0802		Residential	G	SW	55	50	54	50	55	50	55	50	-0.5	0	-0.6	-0.1	55	50	NO	NO	NO	NO	NO
3	3_0803		Residential	G	SW	55	49	54	50	55	50	55	50	-0.3	0.2	-0.3	0.2	55	50	NO	NO	NO	NO	NO
3	3_0804		Residential	G	SW	55	49	55	50	55	50	55	50	0.1	0.6	0	0.6	55	50	NO	NO	NO	NO	NO
3	3_0805		Residential	G	SW	55	50	55	50	55	50	55	50	-0.4	0.1	-0.5	0	55	50	NO	NO	NO	NO	NO
3	3_0806		Residential	G	NE	59	55	56	51	60	55	56	52	-3.9	-3.9	-3.7	-3.7	55	50	NO	NO	NO	NO	NO
3	3_0807		Residential	G	SW	54	49	54	49	55	49	54	49	-0.6	0	-0.8	-0.1	55	50	NO	NO	NO	NO	NO
3	3_0808		Residential	G	SW	57	52	55	51	57	52	56	51	-1.2	-0.9	-1.3	-0.9	55	50	NO	NO	NO	NO	NO
3	3_0809		Residential	G	SW	52	46	53	48	52	47	54	49	1.3	2.5	1.2	2.3	55	50	NO	NO	NO	NO	NO
3	3_0809		Residential	1	SW	58	53	57	52	59	53	57	53	-1.3	-0.9	-1.3	-0.9	55	50	NO	NO	NO	NO	NO
3	3_0810		Residential	G	SW	55	51	55	50	56	51	55	51	-0.6	-0.3	-0.6	-0.3	55	50	NO	NO	NO	NO	NO
3	3_0811		Residential	G	SW	52	47	54	49	53	47	54	49	1.3	2.1	1.2	2	55	50	NO	NO	NO	NO	NO
3	3_0812		Residential	G	E	55	50	54	50	55	50	55	50	-0.3	0	-0.3	0	55	50	NO	NO	NO	NO	NO
3	3_0813		Residential	G	S	52	46	54	49	52	47	54	50	2.4	3.1									

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	Day	Night	Day	Night	Day	Night	
3	3_0848		Residential	G	W	54	50	55	50	55	50	55	51	0.2	0.6	0.2	0.6	55	50	NO	NO	NO	NO	NO
3	3_0849		Residential	G	W	56	51	55	50	56	51	55	51	-0.8	-0.5	-0.8	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0850		Residential	G	S	53	48	54	49	53	48	54	50	1.1	1.6	1.1	1.6	55	50	NO	NO	NO	NO	NO
3	3_0851		Residential	G	S	52	47	54	49	53	48	54	50	1.5	2	1.4	1.9	55	50	NO	NO	NO	NO	NO
3	3_0852		Residential	G	W	55	51	54	50	56	51	54	50	-1.3	-1.1	-1.3	-1.1	55	50	NO	NO	NO	NO	NO
3	3_0853		Residential	G	S	52	47	53	49	53	47	54	49	1.4	1.9	1.3	1.9	55	50	NO	NO	NO	NO	NO
3	3_0854		Residential	G	W	55	50	54	49	55	50	54	50	-0.8	-0.4	-0.9	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0855		Residential	G	W	56	52	54	50	57	52	55	50	-1.9	-1.7	-1.8	-1.7	55	50	NO	NO	NO	NO	NO
3	3_0856		Residential	G	S	54	49	55	50	55	50	55	51	0.5	0.9	0.5	0.9	55	50	NO	NO	NO	NO	NO
3	3_0857		Residential	G	W	58	53	55	51	58	53	56	51	-2.2	-2.1	-2.1	-2.1	55	50	NO	NO	NO	NO	NO
3	3_0858		Residential	G	W	58	53	56	51	58	53	56	51	-2.1	-2	-2.2	-2	55	50	NO	NO	NO	NO	NO
3	3_0859		Residential	G	W	58	54	56	51	59	54	56	51	-2.7	-2.6	-2.6	-2.5	55	50	NO	NO	NO	NO	NO
3	3_0860		Residential	G	W	57	52	55	50	58	53	55	51	-2.4	-2.4	-2.5	-2.3	55	50	NO	NO	NO	NO	NO
3	3_0861		Residential	G	W	58	53	55	50	58	53	55	51	-2.7	-2.6	-2.7	-2.6	55	50	NO	NO	NO	NO	NO
3	3_0862		Residential	G	W	57	53	55	50	58	53	55	51	-2.7	-2.5	-2.6	-2.5	55	50	NO	NO	NO	NO	NO
3	3_0863		Residential	G	E	56	51	53	49	56	52	54	49	-2.4	-2.4	-2.3	-2.3	55	50	NO	NO	NO	NO	NO
3	3_0864		Residential	G	W	57	52	54	50	57	53	55	50	-2.9	-2.9	-2.8	-2.7	55	50	NO	NO	NO	NO	NO
3	3_0865		Residential	G	E	56	52	55	50	57	52	55	51	-1.8	-1.6	-1.6	-1.5	55	50	NO	NO	NO	NO	NO
3	3_0866		Residential	G	SW	58	53	56	51	58	53	56	52	-1.7	-1.6	-1.6	-1.4	55	50	NO	NO	NO	NO	NO
3	3_0867		Residential	G	E	58	53	55	50	58	53	55	51	-2.6	-2.6	-2.5	-2.5	55	50	NO	NO	NO	NO	NO
3	3_0868		Residential	G	S	49	43	52	47	50	44	52	48	2.6	3.9	2.3	3.7	55	50	NO	NO	NO	NO	NO
3	3_0869		Residential	G	W	51	45	52	47	52	46	52	47	0.3	1.5	0	1.2	55	50	NO	NO	NO	NO	NO
3	3_0870		Residential	G	E	53	47	52	47	53	47	53	47	-0.8	0.2	-0.9	0	55	50	NO	NO	NO	NO	NO
3	3_0871		Residential	G	N	59	53	55	49	59	53	56	50	-3.6	-3.4	-3.7	-3.6	55	50	NO	NO	NO	NO	NO
3	3_0872		Residential	G	S	50	44	53	48	51	44	53	48	2.6	4	2.4	3.7	55	50	NO	NO	NO	NO	NO
3	3_0873		Residential	G	W	51	45	51	46	52	45	52	47	0.4	1.7	0.1	1.4	55	50	NO	NO	NO	NO	NO
3	3_0874		Residential	G	S	49	43	52	47	50	44	52	47	2.1	3.4	1.9	3.2	55	50	NO	NO	NO	NO	NO
3	3_0875		Residential	G	W	53	47	53	48	54	48	54	48	-0.3	1.1	-0.5	0.7	55	50	NO	NO	NO	NO	NO
4	4_0001		Residential	G	E	66	60	66	60	67	60	66	60	-0.1	0	-0.4	-0.3	55	50	YES	YES	NO	NO	YES
4	4_0002		Residential	G	W	65	58	65	59	66	59	66	59	0.3	0.6	-0.1	0.3	55	50	YES	YES	NO	NO	YES
5	5_0001		Residential	G	W	72	67	72	67	73	68	72	68	-0.4	-0.2	-0.5	-0.3	60	55	NO	NO	NO	NO	NO
5	5_0002		Residential	G	W	71	66	70	66	71	66	71	66	-0.4	-0.2	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
5	5_0003		Residential	G	N	72	66	69	62	73	66	69	62	-3.8	-3.8	-4.1	-4.1	60	55	NO	NO	NO	NO	NO
5	5_0004		Residential	G	N	77	70	73	66	78	71	74	67	-4	-4.1	-4.3	-4.4	59	54	NO	NO	NO	NO	NO
5	5_0004		Residential	1	N	78	71	74	67	79	72	75	67	-3.9	-4	-4.2	-4.3	59	54	NO	NO	NO	NO	NO
5	5_0005		Residential	G	N	73	66	69	62	74	67	69	62	-3.9	-3.9	-4.3	-4.3	57	52	NO	NO	NO	NO	NO
5	5_0006		Residential	G	N	74	67	70	63	75	68	71	64	-3.9	-4	-4.3	-4.3	56	51	NO	NO	NO	NO	NO
5	5_0007		Residential	G	N	74	67	70	63	75	68	70	63	-4	-4	-4.2	-4.4	56	51	NO	NO	NO	NO	NO
5	5_0008		Residential	G	N	74	67	70	63	75	68	71	64	-4	-3.9	-4.2	-4.3	55	50	NO	NO	NO	NO	NO
5	5_0009		Residential	G	N	72	65	68	61	73	66	69	62	-4	-3.9	-4.2	-4.3	55	50	NO	NO	NO	NO	NO
5	5_0010		Residential	G	N	75	68	71	64	76	69	72	65	-4	-4	-4.2	-4.4	55	50	NO	NO	NO	NO	NO
5	5_0011		Residential	G	N	75	68	71	64	76	69	72	65	-3.9	-3.8	-4.2	-4.3	55	50	NO	NO	NO	NO	NO
5	5_0012		Residential	G	N	74	67	70	63	75	68	70	64	-3.8	-3.7	-4								

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
5	5_0036		Residential	G	S	54	47	57	52	54	48	57	52	3	4.8	2.6	4.4	55	50	NO	NO	NO	NO	YES
5	5_0037		Residential	G	N	59	52	58	53	60	53	58	53	-0.9	0.7	-1.3	0.2	55	50	NO	NO	NO	NO	NO
5	5_0037		Residential	G	S	54	47	56	52	54	48	57	52	2.8	4.6	2.4	4.2	55	50	NO	NO	NO	NO	YES
5	5_0038		Residential	G	N	59	52	58	53	60	53	58	53	-1.1	0.4	-1.5	0	55	50	NO	NO	NO	NO	NO
5	5_0038		Residential	G	S	53	47	56	51	54	48	56	51	2.1	3.9	1.8	3.5	55	50	NO	NO	NO	NO	YES
5	5_0039		Residential	G	E	59	52	58	53	60	53	58	53	-0.7	1.1	-1.2	0.6	55	50	NO	NO	NO	NO	NO
5	5_0039		Residential	G	S	53	47	56	51	54	48	56	52	2.4	4	2	3.6	55	50	NO	NO	NO	NO	YES
5	5_0040		Residential	G	N	58	52	57	52	59	53	58	53	-0.9	0.4	-1.3	0	55	50	NO	NO	NO	NO	NO
5	5_0041		Residential	G	E	58	51	58	53	59	52	58	53	0	1.6	-0.4	1.2	55	50	NO	NO	NO	NO	NO
5	5_0041		Residential	G	S	53	47	55	51	54	48	56	51	1.9	3.5	1.6	3.1	55	50	NO	NO	NO	NO	YES
5	5_0042		Residential	G	N	56	49	56	52	57	50	57	52	0.6	2.3	0.3	1.8	55	50	NO	NO	NO	NO	YES
5	5_0043		Residential	G	N	56	49	56	51	57	50	57	52	0.4	2	0	1.5	55	50	NO	NO	NO	NO	NO
5	5_0043		Residential	G	E	53	47	55	50	54	48	55	51	1.7	3.3	1.2	2.9	55	50	NO	NO	NO	NO	YES
5	5_0044		Residential	G	N	56	50	57	52	57	50	57	52	0.7	2.4	0.3	2	55	50	NO	NO	NO	NO	YES
5	5_0045		Residential	G	E	55	48	58	53	56	49	58	54	3.1	5.3	2.6	4.7	55	50	NO	NO	NO	NO	YES
5	5_0045		Residential	1	E	57	50	59	55	58	51	60	55	2.5	4.5	2	4	55	50	YES	YES	NO	NO	YES
5	5_0046		Residential	G	E	54	48	57	53	55	49	58	53	3	5.1	2.5	4.6	55	50	NO	NO	NO	NO	YES
5	5_0047		Residential	G	E	54	48	57	53	55	48	57	53	3	5	2.5	4.6	55	50	NO	NO	NO	NO	YES
5	5_0048		Residential	G	E	54	47	57	52	55	48	57	53	2.9	5	2.5	4.6	55	50	NO	NO	NO	NO	YES
5	5_0049		Residential	G	E	53	47	57	52	54	48	57	52	3.2	4.9	2.7	4.5	55	50	NO	NO	NO	NO	YES
5	5_0050		Residential	G	N	60	53	58	52	60	54	58	53	-1.7	-0.5	-2	-0.9	55	50	NO	NO	NO	NO	NO
5	5_0050		Residential	G	E	56	50	57	52	57	51	58	53	0.9	2.5	0.4	2.1	55	50	NO	NO	NO	NO	YES
5	5_0051		Residential	G	N	60	53	58	53	61	54	59	53	-1.7	-0.5	-2	-0.9	55	50	NO	NO	NO	NO	NO
5	5_0051		Residential	G	S	54	48	55	50	54	48	55	51	1.3	2.7	0.9	2.3	55	50	NO	NO	NO	NO	YES
5	5_0052		Residential	G	S	54	48	55	50	54	48	55	51	1.2	2.5	1	2.2	55	50	NO	NO	NO	NO	YES
5	5_0053		Residential	G	N	60	54	59	53	61	55	59	54	-1.7	-0.7	-2.1	-1.1	55	50	NO	NO	NO	NO	NO
5	5_0054		Residential	G	S	54	48	55	50	54	48	55	50	0.9	2.1	0.7	1.8	55	50	NO	NO	NO	NO	NO
5	5_0055		Residential	G	N	59	52	57	51	59	53	57	52	-1.7	-0.8	-2	-1.1	56	51	NO	NO	NO	NO	NO
5	5_0056		Residential	G	N	61	54	58	53	61	55	59	53	-2.3	-1.4	-2.5	-1.7	56	51	NO	NO	NO	NO	NO
5	5_0057		Residential	G	N	59	53	57	52	60	53	58	52	-1.8	-0.9	-2.1	-1.2	57	52	NO	NO	NO	NO	NO
5	5_0058		Residential	G	W	60	54	58	52	60	55	58	53	-2.1	-1.5	-2.3	-1.8	58	53	NO	NO	NO	NO	NO
5	5_0059		Residential	G	S	55	49	55	50	55	50	55	51	0.2	0.9	-0.1	0.7	58	53	NO	NO	NO	NO	NO
5	5_0060		Residential	G	N	62	55	59	54	62	56	60	55	-2.1	-1.5	-2.4	-1.7	58	53	NO	NO	NO	NO	NO
5	5_0061		Residential	G	N	60	54	58	53	61	55	59	53	-2.2	-1.4	-2.3	-1.6	59	54	NO	NO	NO	NO	NO
5	5_0062		Residential	G	W	63	58	62	57	64	59	62	57	-1.4	-1	-1.6	-1.1	60	55	NO	NO	NO	NO	NO
5	5_0063		Residential	G	N	57	51	57	52	58	52	57	52	-0.2	1.3	-0.6	0.9	55	50	NO	NO	NO	NO	NO
5	5_0063		Residential	G	E	55	49	56	51	56	49	56	51	0.6	2.1	0.2	1.6	55	50	NO	NO	NO	NO	YES
5	5_0064		Residential	G	N	56	50	56	51	57	51	57	51	-0.2	1.1	-0.6	0.6	55	50	NO	NO	NO	NO	NO
5	5_0064		Residential	1	N	59	53	59	54	60	54	59	54	-0.5	0.8	-0.9	0.4	55	50	NO	NO	NO	NO	NO
5	5_0064		Residential	1	E	57	51	58	54	58	52	59	54	1.2	3.2	0.9	2.7	55	50	NO	NO	NO	NO	YES
5	5_0065		Residential	G	N	57	51	56	51	58	51	57	52	-0.5	0.8	-0.9	0.5	55	50	NO	NO	NO	NO	NO
5	5_0066		Residential	G	E	56	49	56	51	57	50	56	51	-0.3	1.3	-0.6	0.9							

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						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
5	5_0101		Residential	G	SE	51	45	54	50	51	46	55	50	3.7	4.6	3.4	4.4	55	50	NO	NO	NO	NO	NO
5	5_0102		Residential	G	SE	50	45	54	50	51	45	55	50	4	5.1	3.7	4.9	55	50	NO	NO	NO	NO	NO
5	5_0103		Residential	G	SE	52	46	55	50	52	47	55	51	3.1	4	2.9	3.7	55	50	NO	NO	NO	NO	YES
5	5_0104		Residential	G	S	52	47	55	50	53	48	55	51	2.5	3	2.3	2.9	55	50	NO	NO	NO	NO	YES
5	5_0105		Residential	G	S	53	49	55	51	54	49	55	51	1.5	1.8	1.4	1.7	55	50	NO	NO	NO	NO	NO
5	5_0106		Residential	G	S	52	47	55	50	53	48	55	51	2.5	2.9	2.3	2.8	55	50	NO	NO	NO	NO	YES
5	5_0107		Residential	G	S	52	47	55	50	52	47	55	51	2.9	3.6	2.7	3.4	55	50	NO	NO	NO	NO	YES
5	5_0108		Residential	G	SE	50	45	54	50	51	46	54	50	3.7	4.6	3.4	4.4	55	50	NO	NO	NO	NO	NO
5	5_0108		Residential	1	NE	54	48	57	52	55	49	57	53	2.5	4	2.2	3.7	55	50	NO	NO	NO	NO	YES
5	5_0109		Residential	G	SE	51	46	54	50	52	46	55	50	3.3	4.3	3	4	55	50	NO	NO	NO	NO	NO
5	5_0110		Residential	G	SE	52	46	55	51	53	47	56	51	3	4.4	2.7	4.1	55	50	NO	NO	NO	NO	YES
5	5_0111		Residential	G	SE	53	47	56	51	53	47	56	52	3.2	4.7	2.8	4.4	55	50	NO	NO	NO	NO	YES
5	5_0112		Residential	G	E	53	46	56	51	53	47	56	52	3.4	5.1	3	4.7	55	50	NO	NO	NO	NO	YES
5	5_0113		Residential	G	E	53	47	56	52	54	47	57	52	3.3	5.1	2.9	4.7	55	50	NO	NO	NO	NO	YES
5	5_0114		Residential	G	E	53	46	56	51	53	47	56	52	3.3	5.2	2.9	4.8	55	50	NO	NO	NO	NO	YES
5	5_0115		Residential	G	E	53	47	56	52	54	48	57	52	3.2	5.1	2.8	4.6	55	50	NO	NO	NO	NO	YES
5	5_0116		Residential	G	E	53	47	56	52	54	48	57	52	3.1	4.9	2.7	4.5	55	50	NO	NO	NO	NO	YES
5	5_0117		Residential	G	N	55	49	55	50	55	50	56	51	0.6	1.5	0.3	1.2	55	50	NO	NO	NO	NO	NO
5	5_0118		Residential	G	N	54	48	54	49	54	49	55	50	0.4	1.5	0.2	1.1	55	50	NO	NO	NO	NO	NO
5	5_0119		Residential	G	N	53	47	54	49	54	48	54	49	0.4	1.5	0.2	1.1	55	50	NO	NO	NO	NO	NO
5	5_0120		Residential	G	N	54	48	55	50	55	49	55	51	1.1	2.4	0.7	2	55	50	NO	NO	NO	NO	NO
5	5_0121		Residential	G	NE	54	48	56	51	55	48	56	52	2.3	3.8	1.9	3.4	55	50	NO	NO	NO	NO	YES
5	5_0122		Residential	G	E	53	47	56	51	54	48	56	52	2.6	4.2	2.2	3.8	55	50	NO	NO	NO	NO	YES
5	5_0123		Residential	G	NE	52	46	55	51	53	47	56	51	2.8	4.4	2.4	4.1	55	50	NO	NO	NO	NO	YES
5	5_0124		Residential	G	E	53	47	55	51	54	47	56	51	2.7	4.3	2.3	3.9	55	50	NO	NO	NO	NO	YES
5	5_0125		Residential	G	E	53	47	55	51	54	48	56	51	2	3.4	1.7	3.1	55	50	NO	NO	NO	NO	YES
5	5_0126		Residential	G	E	52	46	54	50	53	47	55	50	2	3.3	1.6	2.9	55	50	NO	NO	NO	NO	NO
5	5_0127		Residential	G	E	53	47	55	51	53	47	56	51	2.8	4.2	2.5	3.9	55	50	NO	NO	NO	NO	YES
5	5_0128		Residential	G	N	53	47	55	50	54	48	55	51	1.8	3	1.4	2.6	55	50	NO	NO	NO	NO	YES
5	5_0129		Residential	G	E	53	48	54	50	54	48	55	50	1	2.2	0.8	2	57	52	NO	NO	NO	NO	NO
5	5_0130		Residential	G	W	55	50	55	50	56	51	55	51	-0.4	-0.1	-0.6	-0.2	57	52	NO	NO	NO	NO	NO
5	5_0131		Residential	G	N	55	50	55	51	56	50	56	51	0.4	1.2	0.2	1	56	51	NO	NO	NO	NO	NO
5	5_0132		Residential	G	W	55	50	55	50	56	51	55	51	-0.6	-0.3	-0.8	-0.4	56	51	NO	NO	NO	NO	NO
5	5_0132		Residential	1	N	58	53	58	54	59	53	59	54	0.1	0.8	-0.1	0.6	56	51	NO	NO	NO	NO	NO
5	5_0132		Residential	1	E	55	49	57	52	56	50	57	53	1.9	3.3	1.6	2.9	56	51	NO	NO	NO	NO	YES
5	5_0133		Residential	G	E	53	47	55	50	53	48	55	51	1.9	3.2	1.6	2.9	56	51	NO	NO	NO	NO	NO
5	5_0134		Residential	G	E	53	47	55	50	54	48	55	51	1.9	3.1	1.5	2.8	56	51	NO	NO	NO	NO	NO
5	5_0135		Residential	G	W	55	51	55	51	56	51	56	51	-0.4	0	-0.4	-0.1	56	51	NO	NO	NO	NO	NO
5	5_0136		Residential	G	W	56	51	55	51	56	51	56	51	-0.3	0.1	-0.4	-0.1	55	50	NO	NO	NO	NO	NO
5	5_0136		Residential	G	E	53	47	55	50	54	48	55	51	1.8	2.9	1.4	2.6	55	50	NO	NO	NO	NO	YES
5	5_0137		Residential	G	W	56	51	55	51	56	51	56	51	-0.2	0.1	-0.4	-0.1	55	50	NO	NO	NO	NO	NO
5	5_0137		Residential	G	E	53	47	55	50	54	48	55	51	2										

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
5	5_0168		Residential	G	N	52	47	54	50	53	48	55	50	1.6	2.4	1.5	2.2	55	50	NO	NO	NO	NO	NO
5	5_0169		Residential	G	E	51	45	55	50	52	46	55	51	3.8	5	3.5	4.7	55	50	NO	NO	NO	NO	YES
5	5_0170		Residential	G	N	52	47	56	51	53	47	56	51	3.5	4.5	3.2	4.3	55	50	NO	NO	NO	NO	YES
5	5_0171		Residential	G	N	54	49	55	51	55	49	56	51	1.4	2.1	1.1	1.8	55	50	NO	NO	NO	NO	YES
5	5_0171		Residential	1	N	56	51	57	53	57	52	57	53	1.1	1.6	0.9	1.4	55	50	NO	NO	NO	NO	NO
5	5_0171		Residential	1	N	55	50	56	52	55	50	57	52	1.6	2.3	1.4	2.1	55	50	NO	NO	NO	NO	YES
5	5_0172		Residential	G	N	52	46	54	50	52	47	55	50	2.4	3.4	2.1	3.2	55	50	NO	NO	NO	NO	NO
5	5_0173		Residential	G	N	52	46	56	51	53	47	56	51	3.6	4.7	3.2	4.4	55	50	NO	NO	NO	NO	YES
5	5_0174		Residential	G	NE	52	46	55	50	52	47	55	51	3.4	4.6	3	4.3	55	50	NO	NO	NO	NO	YES
5	5_0175		Residential	G	NE	51	45	54	50	52	46	55	50	3.1	4.4	2.7	4.1	55	50	NO	NO	NO	NO	NO
5	5_0176		Residential	G	NE	51	45	54	50	51	45	55	50	3.6	5	3.3	4.6	55	50	NO	NO	NO	NO	NO
5	5_0177		Residential	G	NE	50	44	54	49	51	45	54	50	4	5.2	3.6	4.9	55	50	NO	NO	NO	NO	NO
5	5_0178		Residential	G	SE	48	43	53	48	49	44	53	49	4.2	5	3.9	4.8	55	50	NO	NO	NO	NO	NO
5	5_0179		Residential	G	NE	51	45	55	51	51	46	55	51	4.3	5.7	3.9	5.4	55	50	NO	NO	NO	NO	YES
5	5_0180		Residential	G	NE	51	45	55	51	52	46	55	51	4	5.4	3.7	5.1	55	50	NO	NO	NO	NO	YES
5	5_0181		Residential	G	SE	50	44	54	50	50	45	55	50	4.3	5.5	4.1	5.3	55	50	NO	NO	NO	NO	NO
5	5_0182		Residential	G	E	50	45	54	50	51	45	55	50	4	5.3	3.6	5	55	50	NO	NO	NO	NO	NO
5	5_0183		Residential	G	NE	51	45	54	50	51	46	55	50	3.6	4.9	3.3	4.6	55	50	NO	NO	NO	NO	NO
5	5_0184		Residential	G	N	50	45	53	48	51	45	53	49	2.3	3.4	2	3.1	55	50	NO	NO	NO	NO	NO
5	5_0185		Residential	G	N	51	45	54	49	51	46	54	50	3.2	4.3	2.9	4	55	50	NO	NO	NO	NO	NO
5	5_0186		Residential	G	E	50	44	53	49	51	45	54	49	3.6	4.8	3.2	4.5	55	50	NO	NO	NO	NO	NO
5	5_0187		Residential	G	NE	49	43	52	48	50	44	53	48	3.2	4.3	2.8	4	55	50	NO	NO	NO	NO	NO
5	5_0188		Residential	G	NE	50	44	54	49	51	45	54	50	3.8	5.3	3.4	4.9	55	50	NO	NO	NO	NO	NO
5	5_0189		Residential	G	NE	50	44	54	49	51	45	54	50	3.7	5.2	3.4	4.8	55	50	NO	NO	NO	NO	NO
5	5_0190		Residential	G	NE	50	44	54	49	51	45	54	50	3.9	5.3	3.5	5	55	50	NO	NO	NO	NO	NO
5	5_0191		Residential	G	N	50	44	53	49	51	45	54	49	3.4	4.6	3	4.3	55	50	NO	NO	NO	NO	NO
5	5_0192		Residential	G	N	49	44	53	49	50	44	54	49	3.9	5.3	3.6	5	55	50	NO	NO	NO	NO	NO
5	5_0192		Residential	1	N	51	45	56	51	52	46	56	52	4.5	5.8	4.1	5.4	55	50	NO	NO	NO	NO	YES
5	5_0193		Residential	G	SE	47	41	52	48	48	42	52	48	4.8	6.4	4.5	6	55	50	NO	NO	NO	NO	NO
5	5_0193		Residential	1	SE	50	44	55	50	51	45	55	51	4.8	6	4.6	5.7	55	50	NO	NO	NO	NO	YES
5	5_0194		Residential	G	E	48	43	52	48	49	44	53	48	3.9	5	3.6	4.7	55	50	NO	NO	NO	NO	NO
5	5_0195		Residential	G	SE	49	43	52	48	49	44	52	48	3.5	4.5	3.3	4.3	55	50	NO	NO	NO	NO	NO
5	5_0196		Residential	G	E	49	43	51	47	49	44	52	47	2.3	3.3	2.1	3.1	55	50	NO	NO	NO	NO	NO
5	5_0197		Residential	G	N	50	44	53	49	51	45	54	49	3.4	4.6	3.1	4.3	55	50	NO	NO	NO	NO	NO
5	5_0198		Residential	G	N	50	44	53	48	51	45	53	49	2.7	3.8	2.4	3.4	55	50	NO	NO	NO	NO	NO
5	5_0199		Residential	G	N	50	45	53	49	51	45	54	49	3.3	4.3	2.9	4.1	55	50	NO	NO	NO	NO	NO
5	5_0200		Residential	G	N	51	45	54	49	51	46	54	50	3.1	4.3	2.8	4	55	50	NO	NO	NO	NO	NO
5	5_0201		Residential	G	N	50	44	53	49	51	45	53	49	3.2	4.5	2.9	4.2	55	50	NO	NO	NO	NO	NO
5	5_0201		Residential	1	N	52	47	56	51	53	47	56	52	3.5	4.4	3.2	4.2	55	50	NO	NO	NO	NO	YES
5	5_0202		Residential	G	NE	50	44	54	50	51	45	55	50	4.3	5.8	3.9	5.5	55	50	NO	NO	NO	NO	NO
5	5_0202		Residential	1	NE	53	47	56	51	53	48	56	52	3.2	4.1	2.9	3.9	55	50	NO	NO	NO	NO	YES
5	5_0203		Residential	G	W	55	50	55	51	55	51	56	51	0										

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
5	5_0237		Residential	G	N	50	44	54	49	50	45	54	50	4	5.2	3.7	4.8	55	50	NO	NO	NO	NO	NO
5	5_0238		Residential	G	N	49	43	53	48	49	44	53	49	4.1	5	3.9	4.9	55	50	NO	NO	NO	NO	NO
5	5_0239		Residential	G	N	49	43	54	50	49	44	54	50	5.2	6.7	4.9	6.4	55	50	NO	NO	NO	NO	NO
5	5_0240		Residential	G	NE	49	43	55	50	50	44	55	50	5.6	7.4	5.2	6.9	55	50	NO	NO	NO	NO	NO
5	5_0240		Residential	1	NE	50	45	56	51	51	45	56	52	5.3	6.7	4.9	6.4	55	50	NO	NO	NO	NO	YES
5	5_0241		Residential	G	NE	50	44	55	50	51	45	55	50	4.8	6.2	4.4	5.8	55	50	NO	NO	NO	NO	NO
5	5_0242		Residential	G	E	49	43	54	50	49	43	55	50	5.5	7.1	5.2	6.8	55	50	NO	NO	NO	NO	NO
5	5_0243		Residential	G	NW	50	45	53	48	51	45	53	49	2.5	3.4	2.3	3.1	55	50	NO	NO	NO	NO	NO
5	5_0244		Residential	G	SE	48	43	53	48	49	44	53	49	4.3	5.4	4.1	5.2	55	50	NO	NO	NO	NO	NO
5	5_0245		Residential	G	NE	49	44	52	48	50	44	53	48	2.9	4.1	2.6	3.8	55	50	NO	NO	NO	NO	NO
5	5_0246		Residential	G	SE	49	43	52	48	49	44	53	48	3.4	4.3	3.2	4.1	55	50	NO	NO	NO	NO	NO
5	5_0247		Residential	G	NE	49	43	52	48	49	43	53	48	3.6	5	3.2	4.6	55	50	NO	NO	NO	NO	NO
5	5_0247		Residential	1	NE	51	45	55	51	51	46	56	51	4.4	5.6	4.1	5.3	55	50	NO	NO	NO	NO	YES
5	5_0248		Residential	G	NW	51	47	53	49	52	47	53	49	1.5	2.1	1.3	1.9	55	50	NO	NO	NO	NO	NO
5	5_0249		Residential	G	NE	51	45	56	51	52	46	56	52	4.6	6	4.1	5.6	55	50	NO	NO	NO	NO	YES
5	5_0250		Residential	G	NE	50	45	55	51	51	45	56	51	4.9	6.4	4.5	6.1	55	50	NO	NO	NO	NO	YES
5	5_0251		Residential	G	NE	50	44	55	51	51	45	56	51	5.1	6.7	4.7	6.3	55	50	NO	NO	NO	NO	YES
5	5_0251		Residential	1	NE	52	46	56	52	52	46	57	52	4.6	6.1	4.3	5.7	55	50	NO	NO	NO	NO	YES
5	5_0252		Residential	G	NE	50	44	54	50	51	44	54	50	4.2	5.8	3.8	5.4	55	50	NO	NO	NO	NO	NO
5	5_0253		Residential	G	NE	51	45	55	51	51	45	56	51	4.8	6.3	4.5	6	55	50	NO	NO	NO	NO	YES
5	5_0254		Residential	G	NE	51	45	56	51	51	45	56	52	5	6.5	4.6	6.1	55	50	NO	NO	NO	NO	YES
5	5_0255		Residential	G	NE	50	45	56	51	51	45	56	52	5.2	6.7	4.8	6.2	55	50	NO	NO	NO	NO	YES
5	5_0256		Residential	G	NE	50	44	56	51	51	45	56	52	5.3	6.9	5	6.6	55	50	NO	NO	NO	NO	YES
5	5_0257		Residential	G	E	50	44	56	51	51	45	56	52	5.5	7.2	5.2	6.8	55	50	NO	NO	NO	NO	YES
5	5_0258		Residential	G	E	49	43	54	50	50	44	54	50	5	6.7	4.6	6.2	55	50	NO	NO	NO	NO	NO
5	5_0259		Residential	G	N	50	45	56	51	51	45	56	52	5.3	6.7	4.9	6.4	55	50	NO	NO	NO	NO	YES
5	5_0260		Residential	G	E	49	43	54	49	50	44	54	50	4.6	6.1	4.2	5.8	55	50	NO	NO	NO	NO	NO
5	5_0261		Residential	G	E	49	43	54	49	50	44	54	50	4.8	6.4	4.5	6	55	50	NO	NO	NO	NO	NO
5	5_0262		Residential	G	N	49	43	53	49	49	44	54	49	4.6	5.9	4.3	5.7	55	50	NO	NO	NO	NO	NO
5	5_0263		Residential	G	E	48	42	53	48	49	43	53	48	4.5	5.8	4.2	5.5	55	50	NO	NO	NO	NO	NO
5	5_0264		Residential	G	SE	49	43	53	49	49	44	53	49	4.3	5.6	4.1	5.4	55	50	NO	NO	NO	NO	NO
5	5_0265		Residential	G	SE	48	43	53	48	49	43	53	49	4.3	5.5	4.1	5.2	55	50	NO	NO	NO	NO	NO
5	5_0266		Residential	G	SE	49	43	53	49	49	43	54	49	4.8	6.1	4.6	5.9	55	50	NO	NO	NO	NO	NO
5	5_0267		Residential	G	SE	48	43	52	48	49	43	53	48	4.2	5.3	3.9	5.1	55	50	NO	NO	NO	NO	NO
5	5_0268		Residential	G	NW	50	45	52	48	51	46	52	48	1.6	2.3	1.4	2.1	55	50	NO	NO	NO	NO	NO
5	5_0269		Residential	G	NW	51	46	53	48	51	46	53	49	1.8	2.5	1.6	2.2	55	50	NO	NO	NO	NO	NO
5	5_0270		Residential	G	SE	50	44	51	44	51	44	51	45	0.4	0.7	0.1	0.4	55	50	NO	NO	NO	NO	NO
5	5_0270		Residential	1	SE	52	46	53	47	53	47	53	47	0.6	1.1	0.3	0.8	55	50	NO	NO	NO	NO	NO
5	5_0271		Residential	G	SE	51	44	51	45	52	45	52	46	0.5	1	0.2	0.7	55	50	NO	NO	NO	NO	NO
5	5_0272		Residential	G	SE	51	44	52	45	52	45	52	46	0.5	0.9	0.1	0.6	55	50	NO	NO	NO	NO	NO
5	5_0273		Residential	G	SE	51	44	51	45	52	45	52	46	0.5	1	0.2	0.7	55	50	NO	NO	NO	NO	NO
5	5_0274		Residential	G	SE	51	44	51	45	51	45													

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
5	5_0306		Residential	G	E	49	42	51	46	50	43	52	46	2.2	3.6	1.9	3.2	55	50	NO	NO	NO	NO	NO
5	5_0307		Residential	G	E	49	42	52	47	50	43	52	47	2.9	4.5	2.6	4.2	55	50	NO	NO	NO	NO	NO
5	5_0307		Residential	1	N	50	43	53	48	50	44	54	49	3.7	5.2	3.3	4.8	55	50	NO	NO	NO	NO	NO
5	5_0308		Residential	G	E	49	42	53	48	50	43	53	48	3.5	5.3	3.2	4.9	55	50	NO	NO	NO	NO	NO
5	5_0309		Residential	G	E	49	42	53	48	50	43	53	48	3.5	5.3	3.2	4.9	55	50	NO	NO	NO	NO	NO
5	5_0310		Residential	G	E	49	42	53	48	50	43	53	48	3.8	5.6	3.4	5.2	55	50	NO	NO	NO	NO	NO
5	5_0311		Residential	G	E	49	42	52	48	50	43	53	48	3.6	5.4	3.2	5	55	50	NO	NO	NO	NO	NO
5	5_0312		Residential	G	E	48	41	50	45	48	42	51	45	2.6	3.9	2.2	3.6	55	50	NO	NO	NO	NO	NO
5	5_0313		Residential	G	E	48	42	52	47	49	42	52	47	3.5	5.1	3	4.7	55	50	NO	NO	NO	NO	NO
5	5_0314		Residential	G	E	48	42	52	47	49	42	52	47	3.4	5.1	3	4.8	55	50	NO	NO	NO	NO	NO
5	5_0315		Residential	G	N	49	42	53	48	49	43	53	49	4.5	6.2	4.2	5.9	55	50	NO	NO	NO	NO	NO
5	5_0316		Residential	G	N	48	41	53	48	48	42	53	49	5.2	7	4.9	6.6	55	50	NO	NO	NO	NO	NO
5	5_0316		Residential	1	N	49	42	54	49	49	43	54	49	4.8	6.5	4.4	6.2	55	50	NO	NO	NO	NO	NO
5	5_0317		Residential	G	N	48	42	53	48	49	42	53	49	4.9	6.6	4.6	6.3	55	50	NO	NO	NO	NO	NO
5	5_0318		Residential	G	NW	47	41	52	48	47	41	53	48	5.6	7.3	5.3	7	55	50	NO	NO	NO	NO	NO
5	5_0319		Residential	G	NW	47	41	52	47	47	41	52	47	4.9	6.6	4.6	6.2	55	50	NO	NO	NO	NO	NO
5	5_0320		Residential	G	NE	48	42	53	48	49	43	53	49	4.7	6.5	4.4	6.1	55	50	NO	NO	NO	NO	NO
5	5_0321		Residential	G	SE	47	40	49	44	47	41	49	44	2.4	3.7	2.1	3.4	55	50	NO	NO	NO	NO	NO
5	5_0322		Residential	G	NE	49	42	52	47	50	43	53	48	3.2	4.8	2.9	4.5	55	50	NO	NO	NO	NO	NO
5	5_0323		Residential	G	NE	49	42	51	46	49	43	52	47	2.7	4.3	2.4	4	55	50	NO	NO	NO	NO	NO
5	5_0324		Residential	G	NE	48	42	52	47	49	42	52	47	3.6	5.4	3.3	5	55	50	NO	NO	NO	NO	NO
5	5_0325		Residential	G	E	48	42	52	47	49	42	52	47	3.3	4.9	2.9	4.6	55	50	NO	NO	NO	NO	NO
5	5_0326		Residential	G	N	49	42	52	47	49	43	53	48	3.6	5.2	3.2	4.8	55	50	NO	NO	NO	NO	NO
5	5_0327		Residential	G	W	46	40	50	45	47	41	50	45	3.5	4.9	3.1	4.6	55	50	NO	NO	NO	NO	NO
5	5_0328		Residential	G	NW	46	40	51	46	47	41	51	46	4.4	6	4.1	5.7	55	50	NO	NO	NO	NO	NO
5	5_0329		Residential	G	NW	47	40	51	47	47	41	52	47	4.5	6.2	4.2	5.9	55	50	NO	NO	NO	NO	NO
5	5_0330		Residential	G	NW	47	40	51	47	47	41	51	47	4.5	6.1	4.1	5.7	55	50	NO	NO	NO	NO	NO
5	5_0331		Residential	G	NW	46	40	51	46	47	41	51	47	4.4	6	4.1	5.7	55	50	NO	NO	NO	NO	NO
5	5_0332		Residential	G	NW	46	40	51	46	47	41	51	46	4.3	5.9	3.9	5.6	55	50	NO	NO	NO	NO	NO
5	5_0333		Residential	G	SE	47	41	50	44	48	42	50	45	2.2	3.6	2	3.2	55	50	NO	NO	NO	NO	NO
5	5_0334		Residential	G	NE	47	40	51	46	47	41	51	47	4.3	6.2	3.9	5.8	55	50	NO	NO	NO	NO	NO
5	5_0335		Residential	G	NW	46	40	50	45	47	41	50	46	3.9	5.5	3.5	5.1	55	50	NO	NO	NO	NO	NO
5	5_0336		Residential	G	NW	46	40	50	46	47	40	51	46	4.5	6.1	4.1	5.8	55	50	NO	NO	NO	NO	NO
5	5_0337		Residential	G	E	47	41	50	45	48	41	50	45	2.7	4.3	2.4	3.9	55	50	NO	NO	NO	NO	NO
5	5_0338		Residential	G	E	48	41	52	47	48	42	52	47	3.8	5.5	3.4	5.2	55	50	NO	NO	NO	NO	NO
5	5_0339		Residential	G	N	48	42	52	48	49	42	53	48	4.3	6	4	5.7	55	50	NO	NO	NO	NO	NO
5	5_0340		Residential	G	NE	47	41	51	47	48	42	52	47	4	5.8	3.7	5.5	55	50	NO	NO	NO	NO	NO
5	5_0341		Residential	G	NW	47	41	52	48	48	42	53	48	5.1	6.7	4.7	6.5	55	50	NO	NO	NO	NO	NO
5	5_0342		Residential	G	NE	48	42	53	48	49	43	53	48	4.2	6	3.8	5.5	55	50	NO	NO	NO	NO	NO
5	5_0343		Residential	G	NW	48	41	52	47	48	42	52	48	4.4	6	4.1	5.6	55	50	NO	NO	NO	NO	NO
5	5_0344		Residential	G	NW	47	41	52	48	48	42	52	48	5	6.5	4.5	6.2	55	50	NO	NO	NO	NO	NO
5	5_0345		Residential	G	NE	48	42	51	46	49	42	51	46</											

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)						
5	5_0381		Residential	G	N	49	44	53	49	50	45	53	49	3.6	4.5	3.4	4.4	55	50	NO	NO	NO	NO	NO
5	5_0382		Residential	G	N	49	44	53	49	50	45	53	49	3.6	4.4	3.3	4.2	55	50	NO	NO	NO	NO	NO
5	5_0383		Residential	G	N	50	45	53	49	50	45	53	49	3.3	4	3	3.8	55	50	NO	NO	NO	NO	NO
5	5_0384		Residential	G	NW	50	45	53	49	51	46	53	49	3	3.5	2.8	3.5	55	50	NO	NO	NO	NO	NO
5	5_0385		Residential	G	N	51	46	54	50	52	47	54	50	2.9	3.5	2.7	3.3	55	50	NO	NO	NO	NO	NO
5	5_0386		Residential	G	N	50	45	53	49	51	46	54	49	3	3.7	2.8	3.5	55	50	NO	NO	NO	NO	NO
5	5_0387		Residential	G	N	50	45	54	49	51	46	54	50	3.3	4	3	3.8	55	50	NO	NO	NO	NO	NO
5	5_0388		Residential	G	N	49	43	53	48	49	44	53	49	4.1	5.3	3.8	5.1	55	50	NO	NO	NO	NO	NO
5	5_0389		Residential	G	N	49	43	53	48	50	44	53	49	3.7	4.7	3.5	4.5	55	50	NO	NO	NO	NO	NO
5	5_0390		Residential	G	N	49	43	53	49	50	44	54	49	4.3	5.4	4	5.2	55	50	NO	NO	NO	NO	NO
5	5_0391		Residential	G	N	49	43	53	49	50	44	54	49	4.5	5.8	4.2	5.5	55	50	NO	NO	NO	NO	NO
5	5_0392		Residential	G	NE	49	42	53	49	49	43	54	49	4.6	6.2	4.3	5.8	55	50	NO	NO	NO	NO	NO
5	5_0393		Residential	G	NE	49	42	53	49	49	43	54	49	4.6	6.3	4.3	6	55	50	NO	NO	NO	NO	NO
5	5_0394		Residential	G	NE	48	42	53	49	49	43	54	49	4.8	6.5	4.4	6.2	55	50	NO	NO	NO	NO	NO
5	5_0395		Residential	G	NE	49	42	53	49	50	43	54	49	4.5	6.2	4.1	5.9	55	50	NO	NO	NO	NO	NO
5	5_0396		Residential	G	NW	47	41	51	47	47	41	52	47	4.8	6.2	4.5	5.9	55	50	NO	NO	NO	NO	NO
5	5_0397		Residential	G	NE	48	42	53	48	49	43	53	49	4.6	6.4	4.2	6	55	50	NO	NO	NO	NO	NO
5	5_0398		Residential	G	N	48	42	53	49	49	43	54	49	4.8	6.6	4.5	6.2	55	50	NO	NO	NO	NO	NO
5	5_0399		Residential	G	NE	48	41	53	49	49	42	53	49	5.3	7.1	4.8	6.8	55	50	NO	NO	NO	NO	NO
5	5_0400		Residential	G	NE	49	43	54	49	49	43	54	49	4.9	6.5	4.5	6.1	55	50	NO	NO	NO	NO	NO
5	5_0401		Residential	G	N	48	42	54	49	49	43	54	49	5.1	6.7	4.6	6.3	55	50	NO	NO	NO	NO	NO
5	5_0402		Residential	G	NE	48	42	53	49	49	43	54	49	5.1	6.8	4.8	6.5	55	50	NO	NO	NO	NO	NO
5	5_0403		Residential	G	NE	48	42	53	49	49	43	54	49	5.1	6.9	4.8	6.5	55	50	NO	NO	NO	NO	NO
5	5_0404		Residential	G	NE	48	42	53	49	49	42	54	49	5.3	7	4.8	6.7	55	50	NO	NO	NO	NO	NO
5	5_0405		Residential	G	NE	48	42	53	49	49	43	54	49	5.1	6.9	4.8	6.5	55	50	NO	NO	NO	NO	NO
5	5_0406		Residential	G	NE	48	42	53	49	49	42	54	49	5.3	7.2	5	6.7	55	50	NO	NO	NO	NO	NO
5	5_0407		Residential	G	NE	48	41	53	49	49	42	54	49	5.5	7.5	5.1	7.1	55	50	NO	NO	NO	NO	NO
5	5_0407		Residential	1	NE	49	43	54	49	50	44	54	50	5	6.6	4.7	6.3	55	50	NO	NO	NO	NO	NO
5	5_0408		Residential	G	NE	48	42	54	49	49	43	54	49	5.3	7	4.9	6.6	55	50	NO	NO	NO	NO	NO
5	5_0409		Residential	G	NE	48	42	54	49	49	43	54	49	5.3	7	4.9	6.7	55	50	NO	NO	NO	NO	NO
5	5_0410		Residential	G	NE	48	42	54	49	49	43	54	50	5.4	7.1	5	6.7	55	50	NO	NO	NO	NO	NO
5	5_0411		Residential	G	NE	48	42	54	49	49	43	54	49	5.3	6.9	4.9	6.5	55	50	NO	NO	NO	NO	NO
5	5_0412		Residential	G	NE	48	42	54	49	49	43	54	50	5.3	6.9	5	6.6	55	50	NO	NO	NO	NO	NO
5	5_0413		Residential	G	N	48	43	54	49	49	43	54	50	5.3	6.8	5	6.5	55	50	NO	NO	NO	NO	NO
5	5_0414		Residential	G	N	49	43	54	49	49	43	54	50	5.2	6.7	4.9	6.3	55	50	NO	NO	NO	NO	NO
5	5_0415		Residential	G	E	48	41	53	49	49	42	54	49	5.5	7.3	5.1	6.9	55	50	NO	NO	NO	NO	NO
5	5_0416		Residential	G	N	48	42	54	49	48	42	54	49	5.9	7.5	5.6	7.1	55	50	NO	NO	NO	NO	NO
5	5_0417		Residential	G	NE	48	42	54	49	49	43	54	50	5.7	7.4	5.3	7	55	50	NO	NO	NO	NO	NO
5	5_0418		Residential	G	NE	48	42	54	50	49	43	54	50	5.6	7.2	5.3	6.9	55	50	NO	NO	NO	NO	NO
5	5_0419		Residential	G	N	49	43	54	50	49	44	55	50	5.5	6.8	5.2	6.6	55	50	NO	NO	NO	NO	NO
5	5_0420		Residential	G	NW	49	43	52	48	49	44	53	48	3.9	4.7	3.7	4.6	55	50	NO	NO	NO	NO	NO
5	5_0420		Residential	1	NE	49	43	54	50	50	44	55	50	5.6	7.2	5.2	6.8	55	50	NO	NO</			

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
5	5_0453		Residential	G	N	70	63	66	59	71	64	67	60	-3.9	-3.8	-4.1	-4	55	50	NO	NO	NO	NO	NO
5	5_0453		Residential	G	E	63	56	61	55	64	57	61	55	-2.7	-1.8	-3	-2.3	55	50	NO	YES	NO	NO	YES
5	5_0454		Residential	G	E	60	54	58	53	61	55	59	53	-2	-0.9	-2.4	-1.3	56	51	NO	NO	NO	NO	NO
6	6_0001		Residential	G	N	72	65	68	62	73	66	69	62	-3.9	-3.9	-4.2	-4.1	55	50	NO	NO	NO	NO	NO
6	6_0001		Residential	G	S	62	55	61	56	63	56	61	56	-0.9	0.8	-1.3	0.3	55	50	YES	YES	NO	NO	YES
6	6_0002		Residential	G	N	58	52	56	51	59	52	57	51	-1.8	-1	-2.2	-1.3	55	50	NO	NO	NO	NO	NO
7	7_0001		Residential	G	SE	72	65	68	61	72	65	68	61	-4	-4	-4.1	-4.3	55	50	NO	NO	NO	NO	NO
7	7_0002		Residential	G	SE	72	65	68	61	73	66	69	62	-4.1	-4.1	-4.2	-4.3	55	50	NO	NO	NO	NO	NO
7	7_0003		Residential	G	SE	72	65	68	61	73	66	68	61	-4.1	-4.2	-4.3	-4.4	55	50	NO	NO	NO	NO	NO
7	7_0004		Residential	G	S	59	52	56	50	60	53	57	50	-2.7	-1.8	-3	-2.2	55	50	NO	NO	NO	NO	NO
7	7_0004		Residential	1	S	60	53	57	51	61	54	58	52	-2.8	-2	-3.1	-2.4	55	50	NO	NO	NO	NO	NO
7	7_0005		Residential	G	SE	61	54	58	52	62	55	59	52	-3.4	-2.9	-3.5	-3.2	55	50	NO	NO	NO	NO	NO
7	7_0006		Residential	G	SW	57	51	55	49	58	51	56	50	-2.4	-1.6	-2.7	-1.9	55	50	NO	NO	NO	NO	NO
7	7_0007		Residential	G	SE	56	49	54	48	57	50	54	48	-2.5	-1.7	-2.8	-2	55	50	NO	NO	NO	NO	NO
7	7_0008		Residential	G	SE	60	53	57	50	61	54	57	51	-3.2	-2.6	-3.5	-3	55	50	NO	NO	NO	NO	NO
7	7_0008		Residential	1	SE	62	55	58	52	62	56	59	53	-3.2	-2.7	-3.5	-3	55	50	NO	NO	NO	NO	NO
7	7_0009		Residential	G	SE	60	53	56	50	60	54	57	51	-3.1	-2.6	-3.4	-3	55	50	NO	NO	NO	NO	NO
7	7_0010		Residential	G	SE	59	52	56	50	60	53	56	50	-3	-2.3	-3.2	-2.6	55	50	NO	NO	NO	NO	NO
7	7_0011		Residential	G	SE	58	51	55	49	58	52	56	49	-2.7	-2	-2.9	-2.3	55	50	NO	NO	NO	NO	NO
7	7_0012		Residential	G	SE	57	50	55	49	58	51	55	49	-2.5	-1.7	-2.8	-2.1	55	50	NO	NO	NO	NO	NO
7	7_0013		Residential	G	SE	56	50	54	48	57	51	55	49	-2.4	-1.7	-2.6	-1.9	55	50	NO	NO	NO	NO	NO
7	7_0014		Residential	G	SE	55	49	53	48	56	50	54	48	-2.1	-1.4	-2.4	-1.6	55	50	NO	NO	NO	NO	NO
7	7_0015		Residential	G	SE	55	49	53	47	56	49	53	48	-2.3	-1.5	-2.6	-1.8	55	50	NO	NO	NO	NO	NO
7	7_0015		Residential	1	SW	57	51	56	50	58	52	56	50	-1.9	-0.9	-2.2	-1.3	55	50	NO	NO	NO	NO	NO
7	7_0016		Residential	G	SE	56	49	53	48	56	50	54	48	-2.5	-1.9	-2.6	-2	55	50	NO	NO	NO	NO	NO
7	7_0017		Residential	G	SE	55	49	53	48	56	50	54	48	-2.3	-1.8	-2.5	-1.9	55	50	NO	NO	NO	NO	NO
7	7_0018		Residential	G	SE	55	49	53	47	55	49	53	48	-2.1	-1.5	-2.2	-1.6	55	50	NO	NO	NO	NO	NO
7	7_0019		Residential	G	SE	55	50	53	48	56	50	54	48	-2.2	-1.7	-2.4	-1.8	55	50	NO	NO	NO	NO	NO
7	7_0020		Residential	G	E	55	50	53	48	56	50	53	48	-2.2	-1.8	-2.2	-1.8	55	50	NO	NO	NO	NO	NO
7	7_0021		Residential	G	SW	58	51	56	50	59	52	56	50	-2.5	-1.6	-2.7	-1.9	55	50	NO	NO	NO	NO	NO
7	7_0022		Residential	G	SW	55	48	53	48	56	49	54	48	-1.9	-0.9	-2.1	-1.2	55	50	NO	NO	NO	NO	NO
7	7_0023		Residential	G	SW	55	48	53	47	56	49	54	48	-1.9	-0.9	-2.2	-1.2	55	50	NO	NO	NO	NO	NO
7	7_0024		Residential	G	SW	54	48	53	48	55	49	54	48	-1.4	-0.2	-1.7	-0.6	55	50	NO	NO	NO	NO	NO
7	7_0025		Residential	G	SW	54	48	53	48	55	49	53	48	-1.3	-0.3	-1.6	-0.6	55	50	NO	NO	NO	NO	NO
7	7_0026		Residential	G	SW	56	49	54	48	57	50	54	49	-1.9	-0.8	-2.1	-1.1	55	50	NO	NO	NO	NO	NO
7	7_0027		Residential	G	SW	57	50	55	49	58	51	55	50	-2	-1	-2.2	-1.3	55	50	NO	NO	NO	NO	NO
7	7_0028		Residential	G	SE	58	52	55	50	59	52	56	50	-2.8	-2.2	-3	-2.4	55	50	NO	NO	NO	NO	NO
7	7_0029		Residential	G	SE	59	52	56	50	60	53	57	51	-3	-2.3	-3.2	-2.6	55	50	NO	NO	NO	NO	NO
7	7_0030		Residential	G	SE	59	53	56	50	60	53	57	51	-3	-2.4	-3.2	-2.7	55	50	NO	NO	NO	NO	NO
7	7_0031		Residential	G	NE	55	49	52	47	56	49	53	47	-2.5	-1.8	-2.7	-2	55	50	NO	NO	NO	NO	NO
7	7_0032		Residential	G	SE	60	53	57	51	61	54	58	51	-3.2	-2.6	-3.4	-3	55	50	NO	NO	NO	NO	NO
7	7_0033		Residential	G	SW	62	55	58	52	62	56	59	53	-3.1	-2.6	-3.4	-2.9	55	50	NO	NO	NO	NO	NO
7	7_0034		Residential	G	SW	56	50	54	48	57	50	55	49	-2.3	-1.4	-2.6	-1							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
9	9_0009	World of Learning Child Care	Residential	G	S	75	68	71	64	76	69	71	64	-4.2	-4.3	-4.3	-4.5	55	50	NO	NO	NO	NO	NO
9	9_0010		Childcare Sleeping	G	S	72	65	68	61	73	66	68	61	-4.1	-4.2	-4.2	-4.4	45	-	NO	NO	NO	-	NO
9	9_0010		Childcare Sleeping	G	N	56	50	58	53	57	51	58	53	1.6	2.9	1.3	2.6	45	-	YES	YES	NO	-	YES
9	9_0011		Residential	G	E	69	62	65	58	69	63	65	58	-4	-3.9	-4.1	-4.1	57	52	NO	NO	NO	NO	NO
9	9_0012	World of Learning Child Care	Residential	G	S	73	66	69	62	74	67	70	63	-4.2	-4.3	-4.3	-4.5	58	53	NO	NO	NO	NO	NO
9	9_0013		Residential	G	S	62	55	59	53	63	56	60	54	-3	-2.3	-3.2	-2.7	55	50	NO	NO	NO	NO	NO
9	9_0013		Residential	G	E	58	51	59	54	59	52	59	55	1.1	3	0.6	2.5	55	50	NO	YES	NO	NO	YES
9	9_0013		Residential	1	E	63	57	62	57	64	57	63	57	-1.2	0.3	-1.6	-0.2	55	50	YES	YES	NO	NO	YES
10	10_0001	World of Learning Child Care	Residential	G	SE	66	62	65	61	67	63	66	62	-1.1	-1	-0.9	-0.8	60	55	YES	YES	YES	YES	YES
10	10_0002		Residential	G	SE	62	58	62	58	63	59	63	59	-0.3	-0.3	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
10	10_0003		Residential	G	E	60	56	60	56	61	57	61	57	0.1	0	0.1	0	60	55	NO	NO	NO	NO	NO
10	10_0003		Residential	1	E	62	57	61	57	62	58	62	58	-0.1	-0.1	0	-0.1	60	55	NO	NO	NO	NO	NO
10	10_0004	World of Learning Child Care	Residential	G	E	56	51	57	53	57	52	58	53	1	1.2	0.9	1.1	58	53	NO	NO	NO	NO	NO
10	10_0005		Residential	G	NE	66	62	65	60	66	62	66	61	-1	-1.2	-0.8	-1	55	50	YES	YES	YES	YES	YES
10	10_0006		Residential	G	E	54	49	55	51	55	50	56	51	1.4	1.8	1.2	1.6	57	52	NO	NO	NO	NO	NO
10	10_0007		Residential	G	N	52	47	54	49	53	48	54	50	1.8	2	1.7	1.9	59	54	NO	NO	NO	NO	NO
10	10_0008	World of Learning Child Care	Residential	G	S	55	50	55	50	56	51	55	50	-0.2	0.1	-0.5	-0.2	59	54	NO	NO	NO	NO	NO
10	10_0009		Residential	G	S	55	50	55	50	56	51	56	51	-0.3	0	-0.6	-0.2	59	54	NO	NO	NO	NO	NO
10	10_0010		Residential	G	S	56	51	55	51	57	51	56	51	-0.4	-0.1	-0.6	-0.3	60	55	NO	NO	NO	NO	NO
10	10_0011		Residential	G	S	56	51	56	51	57	52	56	52	-0.6	-0.3	-0.7	-0.4	60	55	NO	NO	NO	NO	NO
10	10_0012	World of Learning Child Care	Residential	G	E	58	54	58	54	59	54	59	55	0.2	0.3	0.2	0.3	60	55	NO	NO	NO	NO	NO
10	10_0013		Residential	G	S	53	47	53	47	54	48	53	48	-0.2	0.3	-0.7	-0.1	60	55	NO	NO	NO	NO	NO
10	10_0014		Residential	G	S	54	48	54	48	55	49	54	49	-0.3	0.1	-0.7	-0.3	60	55	NO	NO	NO	NO	NO
10	10_0015		Residential	G	S	54	49	54	49	55	50	54	49	-0.3	0	-0.7	-0.3	60	55	NO	NO	NO	NO	NO
10	10_0016	World of Learning Child Care	Residential	G	S	54	49	54	49	55	50	54	49	-0.4	0	-0.8	-0.3	60	55	NO	NO	NO	NO	NO
10	10_0017		Residential	G	S	54	49	54	49	55	50	54	49	-0.5	-0.2	-0.8	-0.4	60	55	NO	NO	NO	NO	NO
10	10_0018		Residential	G	S	55	49	54	49	55	50	54	49	-0.6	-0.3	-1	-0.5	60	55	NO	NO	NO	NO	NO
10	10_0019		Residential	G	N	55	51	55	51	56	51	56	52	0.5	0.4	0.5	0.5	60	55	NO	NO	NO	NO	NO
10	10_0020	World of Learning Child Care	Residential	G	NE	58	54	58	54	59	55	59	55	-0.4	-0.4	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
10	10_0021		Residential	G	E	53	48	54	50	54	49	55	50	1	1.4	0.8	1.2	58	53	NO	NO	NO	NO	NO
10	10_0022		Residential	G	E	53	48	53	48	54	49	54	49	0.3	0.7	0.1	0.5	59	54	NO	NO	NO	NO	NO
10	10_0023		School Classroom	G	E	55	50	55	50	55	51	56	51	0.3	0.5	0.3	0.4	50	-	YES	YES	NO	-	YES
10	10_0024	World of Learning Child Care	School Classroom	G	S	68	61	67	60	69	62	67	61	-1	-0.9	-1.7	-1.7	50	-	NO	NO	NO	-	NO
10	10_0024		School Classroom	1	S	69	62	68	61	70	63	68	62	-0.9	-0.9	-1.7	-1.7	50	-	NO	NO	NO	-	NO
10	10_0025		School Classroom	G	S	58	52	57	51	59	53	57	51	-0.9	-0.6	-1.6	-1.3	50	-	NO	NO	NO	-	NO
10	10_0025		School Classroom	G	N	53	49	54	50	54	50	55	51	1	0.8	1	0.8	50	-	YES	YES	NO	-	YES
10	10_0025	World of Learning Child Care	School Classroom	1	E	60	55	60	55	61	55	60	55	-0.2	0	-0.5	-0.1	50	-	YES	YES	NO	-	YES
10	10_0026		School Classroom	G	S	68	62	67	61	69	63	68	61	-0.9	-0.9	-1.7	-1.7	50	-	NO	NO	NO	-	NO
10	10_0026		School Classroom	G	N	55	51	56	52	56	52	57	53	0.9	1.1	0.9	1	50	-	YES	YES	NO	-	YES
10	10_0027		School Classroom	G	E	56	52	56	52	57	52	57	53	0.5	0.4	0.5	0.5	50	-	YES	YES	NO	-	YES
10	10_0028	World of Learning Child Care	School Classroom	G	N	58	53	57	53	58	54	58	54	-0.1	-0.2	0	-0.1	50	-	YES	YES	NO	-	YES
10	10_0029		School Classroom	G	E	61	56	60	55	61	57	61	56	-0.5	-0.5	-0.6	-0.5	50	-	YES	YES	NO	-	YES
10	10_0031		Residential	G	E	71	67	69	65	71	68	70	66	-1.3	-1.6	-1.1	-1.3	60	55	YES	YES	YES	YES	YES
10	10_0032		Residential	G	E	72	69	71	67	73	69	72	68	-1.5	-1.7	-1.2	-1.4	60	55	YES	YES	YES	YES	YES
10	10_0033	World of Learning Child Care	Residential	G	E	72	69	71	67	73	70	7												

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
10	10_0066		Residential	G	E	52	47	53	48	53	48	53	49	0.9	1.3	0.6	1.1	58	53	NO	NO	NO	NO	NO
10	10_0067		Residential	G	E	53	48	53	49	53	48	54	49	0.9	1.3	0.7	1.1	58	53	NO	NO	NO	NO	NO
10	10_0068		Residential	G	E	52	46	53	48	53	47	53	49	1	1.6	0.7	1.3	57	52	NO	NO	NO	NO	NO
10	10_0069		Residential	G	S	52	47	52	47	53	47	53	48	0.2	0.8	-0.3	0.3	57	52	NO	NO	NO	NO	NO
10	10_0070		Residential	G	E	51	46	52	47	52	47	53	48	0.8	1.3	0.5	1.1	56	51	NO	NO	NO	NO	NO
10	10_0070		Residential	1	E	54	48	54	50	54	49	55	50	0.8	1.4	0.6	1.1	56	51	NO	NO	NO	NO	NO
10	10_0071		Residential	G	S	52	46	52	47	53	47	53	48	0.2	0.8	-0.4	0.4	56	51	NO	NO	NO	NO	NO
10	10_0072		Residential	G	S	51	45	51	45	52	46	51	46	0	0.5	-0.6	0.1	56	51	NO	NO	NO	NO	NO
10	10_0073		Residential	G	S	52	46	52	47	53	47	52	47	0	0.7	-0.5	0.2	56	51	NO	NO	NO	NO	NO
10	10_0074		Residential	G	S	51	45	51	46	52	46	52	46	0	0.6	-0.5	0.1	56	51	NO	NO	NO	NO	NO
10	10_0075		Residential	G	S	52	46	52	47	53	47	52	47	0	0.6	-0.5	0.2	55	50	NO	NO	NO	NO	NO
10	10_0076		Residential	G	S	51	46	52	46	52	46	52	47	0.1	0.7	-0.5	0.2	55	50	NO	NO	NO	NO	NO
10	10_0077		Residential	G	S	52	46	52	47	53	47	52	47	-0.1	0.6	-0.6	0.1	55	50	NO	NO	NO	NO	NO
10	10_0078		Residential	G	S	52	46	51	46	53	46	52	46	-0.2	0.4	-0.8	-0.1	55	50	NO	NO	NO	NO	NO
10	10_0078		Residential	1	E	53	47	54	49	54	48	54	50	0.9	1.5	0.5	1.2	55	50	NO	NO	NO	NO	NO
10	10_0079		Residential	G	S	52	46	52	46	53	46	52	46	-0.1	0.5	-0.7	0	55	50	NO	NO	NO	NO	NO
10	10_0080		Residential	G	E	51	46	52	48	52	46	53	48	1.2	1.9	0.9	1.7	55	50	NO	NO	NO	NO	NO
10	10_0081		Residential	G	E	51	46	53	48	52	47	53	49	1.3	1.9	1	1.7	55	50	NO	NO	NO	NO	NO
10	10_0082		Residential	G	S	52	46	52	47	53	47	53	48	0.3	0.8	-0.3	0.5	56	51	NO	NO	NO	NO	NO
10	10_0083		Residential	G	E	53	48	54	49	54	48	54	50	1.2	1.7	0.9	1.5	56	51	NO	NO	NO	NO	NO
10	10_0084		Residential	G	E	52	47	54	50	53	48	55	50	1.7	2.2	1.5	2	56	51	NO	NO	NO	NO	NO
10	10_0085		Residential	G	E	53	48	54	50	54	49	55	50	1.6	2	1.2	1.8	56	51	NO	NO	NO	NO	NO
10	10_0086		Residential	G	E	53	48	54	50	53	48	55	50	1.6	2.1	1.3	1.8	56	51	NO	NO	NO	NO	NO
10	10_0087		Residential	G	E	52	47	54	50	53	48	55	50	1.6	2.1	1.4	1.9	56	51	NO	NO	NO	NO	NO
10	10_0088		Residential	G	E	53	48	54	50	53	48	55	50	1.5	2	1.3	1.8	56	51	NO	NO	NO	NO	NO
10	10_0089		Residential	G	E	51	47	53	49	52	47	54	49	1.7	2	1.5	1.8	55	50	NO	NO	NO	NO	NO
10	10_0090		Residential	G	E	52	48	56	51	53	48	56	52	3.6	3.8	3.4	3.6	55	50	NO	NO	NO	NO	YES
10	10_0091		Residential	G	E	53	47	53	48	54	48	54	49	0.3	0.8	-0.3	0.4	55	50	NO	NO	NO	NO	NO
10	10_0092		Residential	G	S	53	47	53	47	54	48	53	47	-0.2	0.3	-0.9	-0.3	55	50	NO	NO	NO	NO	NO
10	10_0093		Residential	G	S	53	47	52	47	54	48	53	47	-0.4	0	-1.1	-0.6	57	52	NO	NO	NO	NO	NO
10	10_0094	First floor apartments	Residential	G	S	70	63	69	62	71	64	69	63	-0.9	-0.9	-1.6	-1.6	60	55	NO	NO	NO	NO	NO
10	10_0094	First floor apartments	Residential	1	S	71	65	70	63	72	66	70	64	-1.1	-1.1	-1.8	-1.8	60	55	NO	NO	NO	NO	NO
11	11_0001		Residential	G	NW	54	50	55	51	55	50	56	52	1.2	1	1.2	1.1	55	50	NO	NO	NO	NO	NO
11	11_0002		Residential	G	NW	55	51	57	52	55	51	57	53	1.6	1.4	1.6	1.4	55	50	NO	NO	NO	NO	NO
11	11_0003		Residential	G	W	55	50	57	52	55	51	57	53	2	1.9	1.9	1.9	55	50	NO	NO	NO	NO	NO
11	11_0004		Residential	G	NW	55	50	56	52	55	51	56	52	1.2	1.1	1.3	1.2	55	50	NO	NO	NO	NO	NO
11	11_0004		Residential	G	SW	54	49	56	52	54	50	56	52	2.2	2.1	2	2.1	55	50	NO	NO	NO	NO	YES
11	11_0005		Residential	G	NW	56	52	55	51	56	52	56	51	-0.5	-0.7	-0.4	-0.5	55	50	NO	NO	NO	NO	NO
11	11_0006		Residential	G	NW	55	51	55	50	55	51	55	51	-0.1	-0.3	0	-0.1	55	50	NO	NO	NO	NO	NO
11	11_0007		Residential	G	SW	53	49	55	51	54	50	55	51	1.6	1.6	1.6	1.6	55	50	NO	NO	NO	NO	NO
11	11_0008		Residential	G	NE	57	53	54	50	57	53	55	50	-2.9	-2.9	-2.6	-2.6	55	50	NO	NO	NO	NO	NO
11	11_000																							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
11	11_0042		Residential	G	NW	74	69	66	62	74	70	67	62	-7.4	-7.3	-7.6	-7.6	55	50	YES	YES	YES	YES	YES
11	11_0043		Residential	G	NW	69	64	68	63	69	65	68	64	-1	-1.4	-1.4	-1.5	55	50	YES	YES	YES	YES	YES
11	11_0044		Residential	G	NW	67	63	67	62	68	64	68	63	0	-0.6	-0.2	-0.8	55	50	YES	YES	YES	YES	YES
12	12_0001		Residential	G	W	58	54	55	51	59	55	56	51	-3.2	-3.2	-3.1	-3.2	55	50	NO	NO	NO	NO	NO
12	12_0001		Residential	1	W	59	55	56	51	59	55	56	52	-3	-3.2	-3	-3	55	50	NO	NO	NO	NO	NO
12	12_0002		Residential	G	W	58	54	55	51	59	54	56	51	-3.2	-3.2	-3.1	-3.2	55	50	NO	NO	NO	NO	NO
12	12_0003		Residential	G	W	58	54	55	50	59	54	55	51	-3.2	-3.3	-3.2	-3.1	55	50	NO	NO	NO	NO	NO
12	12_0004		Residential	G	W	58	54	55	50	59	54	56	51	-3.2	-3.2	-3.1	-3.2	55	50	NO	NO	NO	NO	NO
12	12_0005		Residential	G	N	56	52	54	50	57	53	55	50	-2.2	-2.2	-2.2	-2.3	55	50	NO	NO	NO	NO	NO
12	12_0006		Residential	G	N	55	51	53	49	56	52	54	50	-2	-2.1	-2.2	-2.2	55	50	NO	NO	NO	NO	NO
12	12_0006		Residential	1	W	57	53	55	50	58	54	55	51	-2.4	-2.4	-2.3	-2.5	55	50	NO	NO	NO	NO	NO
12	12_0007		Residential	G	W	57	53	54	50	58	54	55	51	-3.2	-3.2	-3.1	-3.1	55	50	NO	NO	NO	NO	NO
12	12_0008		Residential	G	W	57	53	54	50	58	54	55	51	-3.1	-3.3	-3.1	-3.1	55	50	NO	NO	NO	NO	NO
12	12_0009		Residential	G	W	58	54	55	50	59	54	55	51	-3.2	-3.3	-3.1	-3.2	55	50	NO	NO	NO	NO	NO
12	12_0010		Residential	G	W	57	53	54	50	58	54	55	51	-3.1	-3.1	-2.9	-3	55	50	NO	NO	NO	NO	NO
12	12_0011		Residential	G	W	56	52	54	49	57	53	54	50	-2.5	-2.5	-2.6	-2.6	55	50	NO	NO	NO	NO	NO
12	12_0011		Residential	1	W	58	54	56	52	58	54	57	53	-1.7	-1.7	-1.7	-1.7	55	50	NO	NO	NO	NO	NO
12	12_0012		Residential	G	SW	55	51	53	48	56	52	53	49	-2.6	-2.7	-2.6	-2.6	55	50	NO	NO	NO	NO	NO
12	12_0013		Residential	G	W	55	50	52	47	55	51	52	48	-2.9	-2.9	-2.9	-2.8	55	50	NO	NO	NO	NO	NO
12	12_0013		Residential	1	W	58	54	55	51	59	55	56	52	-2.9	-3	-2.7	-2.8	55	50	NO	NO	NO	NO	NO
12	12_0014		Residential	G	W	55	51	52	48	56	51	53	49	-3	-2.9	-2.9	-2.9	55	50	NO	NO	NO	NO	NO
12	12_0015		Residential	G	SW	54	50	51	47	55	50	52	48	-2.7	-2.7	-2.7	-2.7	55	50	NO	NO	NO	NO	NO
12	12_0016		Residential	G	SW	55	51	52	48	56	51	53	49	-2.7	-2.6	-2.7	-2.6	55	50	NO	NO	NO	NO	NO
12	12_0016		Residential	1	SW	58	54	57	52	59	55	57	53	-1.7	-1.7	-1.6	-1.7	55	50	NO	NO	NO	NO	NO
12	12_0017		Residential	G	SW	55	51	52	48	55	51	53	49	-2.7	-2.7	-2.7	-2.6	55	50	NO	NO	NO	NO	NO
12	12_0018		Residential	G	SW	55	50	52	48	55	51	53	48	-2.8	-2.7	-2.7	-2.6	55	50	NO	NO	NO	NO	NO
12	12_0018		Residential	1	SW	58	54	56	52	59	55	57	53	-1.7	-1.8	-1.6	-1.7	55	50	NO	NO	NO	NO	NO
12	12_0019		Residential	G	W	52	48	49	45	53	48	50	46	-2.6	-2.7	-2.7	-2.6	55	50	NO	NO	NO	NO	NO
12	12_0020		Residential	G	NW	52	47	49	45	52	48	49	45	-2.9	-2.8	-2.7	-2.6	55	50	NO	NO	NO	NO	NO
12	12_0021		Residential	G	SW	53	49	51	46	54	50	51	47	-2.8	-2.8	-2.7	-2.8	55	50	NO	NO	NO	NO	NO
12	12_0021		Residential	1	SW	57	53	54	50	57	53	55	50	-2.9	-2.9	-2.8	-2.8	55	50	NO	NO	NO	NO	NO
12	12_0022		Residential	G	SE	53	48	52	48	53	49	52	48	-0.8	-0.8	-0.6	-0.7	55	50	NO	NO	NO	NO	NO
12	12_0022		Residential	1	SW	57	52	55	51	57	53	56	52	-1.5	-1.5	-1.5	-1.5	55	50	NO	NO	NO	NO	NO
12	12_0023		Residential	G	N	57	52	53	49	57	53	54	50	-3.1	-3.1	-3.1	-3.1	55	50	NO	NO	NO	NO	NO
12	12_0023		Residential	1	N	58	53	55	50	58	54	56	51	-3.1	-3.1	-2.9	-3.1	55	50	NO	NO	NO	NO	NO
12	12_0024		Residential	G	N	57	52	54	49	57	53	54	50	-3	-3.1	-3	-3	55	50	NO	NO	NO	NO	NO
12	12_0024		Residential	1	W	59	55	56	52	60	56	57	53	-3.1	-3.2	-3	-3.2	55	50	NO	NO	NO	NO	NO
12	12_0025		Residential	G	N	56	51	53	48	56	52	53	49	-2.9	-2.9	-2.9	-2.9	55	50	NO	NO	NO	NO	NO
12	12_0026		Residential	G	W	55	50	51	47	55	51	52	48	-3.3	-3.3	-3.3	-3.3	55	50	NO	NO	NO	NO	NO
12	12_0027		Residential	G	W	55	51	52	47	56	52	53	48	-3.4	-3.3	-3.4	-3.3	55	50	NO	NO	NO	NO	NO
12	12_0028		Residential	G	SW	55	51	52	48	56	52	53	49	-3	-2.9	-2.9	-2.9	55	50	NO	NO	NO	NO	NO
12	12_0029		Residential	G	SW	55	51	52	48	56	51	53	49	-3	-3	-2.9	-2.9	55	50	NO	NO	NO	NO	NO
12	12_000																							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
12	12_0055		Residential	1	W	68	64	63	59	69	64	63	59	-5.5	-5.5	-5.2	-5.2	55	50	YES	NO	NO	NO	YES
12	12_0056		Residential	G	W	66	62	61	57	67	63	62	57	-5.6	-5.5	-5.3	-5.3	55	50	NO	NO	NO	NO	NO
12	12_0056		Residential	G	S	63	59	59	55	63	59	60	56	-3.6	-3.6	-3.4	-3.4	55	50	YES	YES	NO	NO	YES
12	12_0056		Residential	1	W	68	64	63	59	68	64	64	60	-5	-5	-4.7	-4.7	55	50	YES	YES	NO	NO	YES
12	12_0057		Residential	G	SE	59	55	55	51	59	55	56	52	-3.6	-3.6	-3.4	-3.5	55	50	NO	NO	NO	NO	NO
12	12_0058		Residential	G	S	59	55	55	51	60	56	56	52	-4	-4	-3.8	-3.8	55	50	NO	NO	NO	NO	NO
12	12_0059		Residential	G	SE	60	56	55	51	60	56	56	52	-4.5	-4.4	-4.2	-4.2	55	50	NO	NO	NO	NO	NO
12	12_0060		Residential	G	S	61	57	56	52	61	57	57	53	-4.4	-4.3	-4.1	-4.1	55	50	NO	NO	NO	NO	NO
12	12_0061		Residential	G	S	57	52	53	49	57	53	53	49	-4	-3.9	-3.8	-3.7	55	50	NO	NO	NO	NO	NO
12	12_0062		Residential	G	SE	57	53	53	49	57	53	54	50	-3.6	-3.6	-3.4	-3.4	55	50	NO	NO	NO	NO	NO
12	12_0063		Residential	G	NW	58	54	53	49	58	54	54	50	-5	-5.1	-4.8	-4.7	55	50	NO	NO	NO	NO	NO
12	12_0064		Residential	G	SE	59	55	55	51	59	55	55	51	-4	-4	-3.8	-3.8	55	50	NO	NO	NO	NO	NO
12	12_0065		Residential	G	S	59	55	55	51	59	55	55	51	-4.3	-4.3	-4	-4.1	55	50	NO	NO	NO	NO	NO
12	12_0066		Residential	G	N	59	55	53	49	59	55	54	50	-5.4	-5.4	-5.1	-5	55	50	NO	NO	NO	NO	NO
12	12_0067		Residential	G	W	65	61	60	56	65	61	60	56	-5	-5	-4.7	-4.7	55	50	YES	YES	NO	NO	YES
12	12_0068		Residential	G	W	66	62	60	56	66	62	61	57	-5.9	-5.8	-5.5	-5.5	55	50	NO	NO	NO	NO	NO
12	12_0068		Residential	G	S	63	59	58	54	63	59	59	55	-4.7	-4.7	-4.5	-4.5	55	50	NO	YES	NO	NO	YES
12	12_0068		Residential	1	W	68	63	62	58	68	64	63	59	-5.3	-5.2	-5	-5	55	50	YES	YES	NO	NO	YES
12	12_0069		Residential	G	SE	62	58	57	53	62	58	58	54	-4.5	-4.6	-4.3	-4.3	55	50	NO	NO	NO	NO	NO
12	12_0070		Residential	G	SE	60	56	56	52	61	57	57	53	-4.4	-4.4	-4.1	-4.2	55	50	NO	NO	NO	NO	NO
12	12_0071		Residential	G	S	60	56	56	52	61	57	57	52	-4.4	-4.4	-4.2	-4.1	55	50	NO	NO	NO	NO	NO
12	12_0072		Residential	G	S	60	56	57	53	60	56	58	53	-3	-3.1	-2.8	-2.9	55	50	NO	NO	NO	NO	NO
12	12_0073		Residential	G	S	57	53	55	51	57	53	56	52	-1.6	-1.6	-1.4	-1.4	55	50	NO	NO	NO	NO	NO
12	12_0073		Residential	1	W	62	58	59	55	63	58	59	55	-3.3	-3.4	-3.1	-3.2	55	50	NO	YES	NO	NO	YES
12	12_0074		Residential	G	S	59	55	57	52	59	55	57	53	-2.2	-2.3	-2	-2.1	55	50	NO	NO	NO	NO	NO
12	12_0075		Residential	G	NW	62	58	60	55	64	59	62	57	-2.3	-2.5	-2	-2.3	55	50	NO	NO	NO	NO	NO
12	12_0075		Residential	1	NW	64	59	61	56	65	61	63	58	-2.5	-2.7	-2.2	-2.4	55	50	NO	NO	NO	NO	NO
12	12_0076		Residential	G	W	61	57	58	54	62	58	60	55	-2.5	-2.6	-2.1	-2.3	55	50	YES	YES	NO	NO	YES
12	12_0076		Residential	1	W	63	58	60	56	64	60	62	57	-2.8	-2.9	-2.4	-2.6	55	50	YES	YES	NO	NO	YES
12	12_0077		Residential	G	W	59	55	56	51	60	56	57	53	-3.5	-3.5	-3.1	-3.2	55	50	NO	NO	NO	NO	NO
12	12_0077		Residential	1	W	61	57	59	54	62	58	60	55	-2.8	-3	-2.4	-2.7	55	50	YES	YES	NO	NO	YES
12	12_0078		Residential	G	W	59	55	55	51	60	56	56	52	-3.9	-3.8	-3.5	-3.5	55	50	NO	NO	NO	NO	NO
12	12_0078		Residential	1	W	61	57	58	54	62	58	59	55	-2.9	-3.1	-2.7	-2.8	55	50	NO	YES	NO	NO	YES
12	12_0079		Residential	G	SW	59	54	55	51	59	55	56	52	-3.6	-3.6	-3.4	-3.4	55	50	NO	NO	NO	NO	NO
12	12_0079		Residential	1	SW	61	57	58	54	62	58	59	55	-3	-3.1	-2.7	-2.8	55	50	NO	YES	NO	NO	YES
12	12_0080		Residential	G	SW	58	54	55	51	59	55	56	51	-3.6	-3.6	-3.3	-3.4	55	50	NO	NO	NO	NO	NO
12	12_0080		Residential	1	SW	61	57	58	54	62	58	59	55	-3	-3.1	-2.8	-2.9	55	50	NO	YES	NO	NO	YES
12	12_0081		Residential	G	W	59	55	56	52	60	55	57	53	-2.8	-2.9	-2.7	-2.7	55	50	NO	NO	NO	NO	NO
12	12_0081		Residential	1	W	61	57	58	54	62	58	59	55	-2.8	-2.9	-2.7	-2.8	55	50	NO	YES	NO	NO	YES
12	12_0082		Residential	G	W	58	54	54	50	58	54	55	50	-4	-4	-3.8	-3.8	55	50	NO	NO	NO	NO	NO
12	12_0083		Residential	G	W	58	54	56	51	59	55	56	52	-2.6	-2.7	-2.5	-2.5	55	50	NO	NO	NO	NO	NO
12																								

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
12	12_0115		Residential	G	W	55	50	53	48	55	51	53	49	-2	-2.1	-2.1	-2.1	55	50	NO	NO	NO	NO	NO
12	12_0116		Residential	G	W	54	50	52	48	55	50	52	48	-2.2	-2.1	-2.2	-2.2	55	50	NO	NO	NO	NO	NO
12	12_0117		Residential	G	W	54	50	52	48	55	50	53	48	-1.9	-2	-2	-2	55	50	NO	NO	NO	NO	NO
12	12_0118		Residential	G	N	54	50	52	47	55	50	52	48	-2.3	-2.3	-2.2	-2.2	55	50	NO	NO	NO	NO	NO
12	12_0119		Residential	G	N	54	50	51	47	55	50	52	48	-2.5	-2.5	-2.5	-2.5	55	50	NO	NO	NO	NO	NO
12	12_0120		Residential	G	N	53	49	51	47	54	50	52	48	-1.9	-1.9	-2	-2	55	50	NO	NO	NO	NO	NO
12	12_0121		Residential	G	W	56	52	53	49	57	52	54	50	-2.4	-2.5	-2.4	-2.4	55	50	NO	NO	NO	NO	NO
12	12_0122		Residential	G	W	55	51	53	49	56	51	53	49	-2.1	-2.1	-2.1	-2.1	55	50	NO	NO	NO	NO	NO
12	12_0122		Residential	1	W	57	53	56	51	58	54	56	52	-1.8	-1.8	-1.7	-1.8	55	50	NO	NO	NO	NO	NO
12	12_0123		Residential	G	W	54	50	52	47	54	50	52	48	-2.2	-2.2	-2.2	-2.2	55	50	NO	NO	NO	NO	NO
12	12_0124		Residential	G	NW	53	49	51	47	54	50	51	47	-2.4	-2.5	-2.4	-2.5	55	50	NO	NO	NO	NO	NO
12	12_0125		Residential	G	SW	53	49	50	46	54	49	51	47	-2.8	-2.7	-2.7	-2.6	55	50	NO	NO	NO	NO	NO
12	12_0125		Residential	1	SW	56	52	54	50	57	53	55	50	-2.4	-2.4	-2.3	-2.3	55	50	NO	NO	NO	NO	NO
12	12_0126		Residential	G	W	54	50	52	48	55	51	53	48	-2.3	-2.3	-2.3	-2.3	55	50	NO	NO	NO	NO	NO
12	12_0127		Residential	G	S	52	47	49	45	52	48	50	46	-2.5	-2.5	-2.5	-2.5	55	50	NO	NO	NO	NO	NO
12	12_0128		Residential	G	N	50	46	48	43	51	47	48	44	-2.8	-2.8	-2.7	-2.8	55	50	NO	NO	NO	NO	NO
12	12_0129		Residential	G	W	51	47	49	45	52	47	49	45	-2.2	-2.2	-2.1	-2	55	50	NO	NO	NO	NO	NO
12	12_0129		Residential	1	W	55	50	52	48	55	51	53	49	-2.3	-2.3	-2.3	-2.3	55	50	NO	NO	NO	NO	NO
12	12_0130		Residential	G	W	51	47	49	45	51	47	49	45	-2	-2	-2	-2	55	50	NO	NO	NO	NO	NO
12	12_0131		Residential	G	W	52	48	50	46	53	48	50	46	-2.4	-2.4	-2.3	-2.3	55	50	NO	NO	NO	NO	NO
12	12_0131		Residential	1	W	55	50	52	48	55	51	53	49	-2.1	-2.2	-2.1	-2.1	55	50	NO	NO	NO	NO	NO
12	12_0132		Residential	G	W	52	48	50	46	53	49	51	47	-2.4	-2.4	-2.4	-2.3	55	50	NO	NO	NO	NO	NO
12	12_0133		Residential	G	W	52	48	50	45	53	49	50	46	-2.5	-2.6	-2.6	-2.5	55	50	NO	NO	NO	NO	NO
12	12_0133		Residential	1	W	55	51	52	48	55	51	53	49	-2.4	-2.4	-2.3	-2.4	55	50	NO	NO	NO	NO	NO
12	12_0134		Residential	G	W	52	48	51	47	52	48	51	47	-0.8	-1	-0.9	-0.9	55	50	NO	NO	NO	NO	NO
12	12_0134		Residential	1	W	55	51	53	49	55	51	54	50	-1.3	-1.4	-1.3	-1.4	55	50	NO	NO	NO	NO	NO
12	12_0135		Residential	G	W	53	49	52	47	53	49	52	48	-1.1	-1.2	-1.1	-1.1	55	50	NO	NO	NO	NO	NO
12	12_0135		Residential	1	W	55	51	54	50	56	52	54	50	-1.5	-1.5	-1.5	-1.5	55	50	NO	NO	NO	NO	NO
13	13_0001		Residential	G	SE	52	48	56	52	53	49	56	52	3.4	3.3	3.3	3.3	55	50	NO	NO	NO	NO	YES
13	13_0002		Residential	G	E	53	49	56	52	53	49	57	53	3.6	3.6	3.5	3.5	55	50	NO	NO	NO	NO	YES
13	13_0003		Residential	G	E	56	52	60	56	57	53	60	56	3.6	3.6	3.6	3.6	55	50	YES	YES	NO	NO	YES
13	13_0003		Residential	1	E	58	54	61	57	58	54	62	58	3.5	3.6	3.6	3.6	55	50	YES	YES	NO	NO	YES
13	13_0004		Residential	G	E	57	53	61	57	58	54	62	58	4	4.2	4.2	4.2	55	50	YES	YES	NO	NO	YES
13	13_0004		Residential	1	E	58	54	62	58	58	54	62	59	4	4.1	4.1	4.2	55	50	YES	YES	NO	NO	YES
13	13_0005		Residential	G	E	61	57	65	61	61	57	66	62	4.7	4.9	4.9	5	55	50	YES	YES	YES	YES	YES
13	13_0006		Residential	G	SE	61	57	67	64	62	58	68	64	6.1	6.4	6.2	6.4	55	50	YES	YES	YES	YES	YES
13	13_0007		Residential	G	E	60	56	66	62	60	56	67	63	6.4	6.5	6.5	6.7	55	50	YES	YES	YES	YES	YES
13	13_0008		Residential	G	E	58	53	62	58	58	54	62	58	4.4	4.5	4.5	4.6	55	50	YES	YES	NO	NO	YES
13	13_0009		Residential	G	E	53	49	58	54	54	49	59	55	5.2	5.4	5.2	5.3	55	50	NO	YES	NO	NO	YES
13	13_0010		Residential	G	SE	57	53	60	56	58	54	61	57	3.1	3	3.1	3.2	55	50	YES	YES	NO	NO	YES
13	13_0011		Residential	G	E	56	51	59	54	56	52	59	55	3	2.9	2.9	2.9	55	50	NO	YES	NO	NO	YES
13	13_0012		Residential	G	E	54	50	57	53	55	51	57	53											

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night							
15	15_0010	Residential	G	SE	67	63	67	63	68	64	68	64	0.1	0.1	0.2	0	60	55	YES	YES	YES	YES	YES	
15	15_0010	Residential	1	SE	68	64	68	64	69	65	69	65	0.1	0	0.1	0	60	55	YES	YES	YES	YES	YES	
15	15_0011	Residential	G	SE	67	64	68	64	68	65	69	65	0.2	0.2	0.3	0.1	60	55	YES	YES	YES	YES	YES	
15	15_0011	Residential	1	SE	68	64	68	64	69	65	69	65	0.2	0.1	0.3	0.1	60	55	YES	YES	YES	YES	YES	
15	15_0012	Residential	G	SE	68	64	68	65	69	65	69	66	0.3	0.2	0.4	0.2	60	55	YES	YES	YES	YES	YES	
15	15_0013	Residential	G	E	68	64	68	65	69	65	69	66	0.5	0.4	0.6	0.4	60	55	YES	YES	YES	YES	YES	
15	15_0014	Residential	G	E	68	64	68	65	69	65	69	66	0.7	0.6	0.7	0.6	60	55	YES	YES	YES	YES	YES	
15	15_0015	Residential	G	E	65	61	66	62	66	62	67	63	1	0.9	1	0.9	60	55	YES	YES	YES	YES	YES	
15	15_0015	Residential	1	E	67	63	68	64	68	64	69	65	0.7	0.6	0.7	0.5	60	55	YES	YES	YES	YES	YES	
15	15_0016	Residential	G	E	64	60	64	61	65	61	65	62	0.4	0.4	0.5	0.4	60	55	YES	YES	YES	YES	YES	
15	15_0016	Residential	1	E	66	62	67	63	67	63	67	64	0.7	0.7	0.6	0.6	60	55	YES	YES	YES	YES	YES	
15	15_0017	Residential	G	S	63	59	63	60	64	60	64	60	0.4	0.4	0.5	0.3	60	55	NO	YES	NO	YES	YES	
15	15_0017	Residential	1	E	66	62	66	63	67	63	67	63	0.6	0.6	0.6	0.6	60	55	YES	YES	YES	YES	YES	
15	15_0018	Residential	G	SW	66	61	66	61	66	61	66	61	0	-0.1	-0.3	-0.3	60	55	YES	YES	YES	YES	YES	
15	15_0018	Residential	1	SW	69	63	68	62	69	63	68	62	-0.4	-0.3	-0.6	-0.5	60	55	YES	YES	YES	YES	YES	
15	15_0019	Residential	G	SW	68	62	68	62	68	62	67	62	-0.4	-0.3	-0.7	-0.7	60	55	YES	YES	YES	YES	YES	
15	15_0020	Residential	G	SW	68	61	67	61	67	61	67	61	-0.4	-0.3	-0.6	-0.6	60	55	YES	YES	YES	YES	YES	
15	15_0021	Residential	G	S	59	55	59	55	60	56	59	56	-0.2	-0.3	-0.4	-0.4	60	55	NO	NO	NO	NO	NO	
15	15_0022	Residential	G	SW	58	52	59	53	58	53	58	52	0.1	0.1	-0.2	-0.2	60	55	NO	NO	NO	NO	NO	
15	15_0022	Residential	1	SW	60	55	60	55	60	55	60	55	-0.2	-0.2	-0.3	-0.3	60	55	NO	NO	NO	NO	NO	
15	15_0023	Residential	G	W	57	51	57	51	57	51	56	50	-0.3	-0.5	-0.6	-0.8	60	55	NO	NO	NO	NO	NO	
15	15_0023	Residential	1	W	60	54	59	54	60	54	59	54	-0.3	-0.5	-0.6	-0.8	60	55	NO	NO	NO	NO	NO	
15	15_0024	Residential	G	W	56	50	56	50	56	50	56	50	0	0	-0.3	-0.3	60	55	NO	NO	NO	NO	NO	
15	15_0024	Residential	1	W	59	54	59	53	59	54	59	53	-0.2	-0.4	-0.5	-0.7	60	55	NO	NO	NO	NO	NO	
15	15_0025	Residential	G	SW	61	57	60	56	61	57	61	57	-0.2	-0.2	-0.3	-0.5	60	55	NO	NO	NO	NO	NO	
15	15_0025	Residential	1	SW	63	59	63	59	64	60	64	59	-0.3	-0.4	-0.4	-0.5	60	55	NO	NO	NO	NO	NO	
15	15_0026	Residential	G	SE	58	54	57	53	58	55	58	54	-0.2	-0.3	-0.4	-0.5	60	55	NO	NO	NO	NO	NO	
15	15_0026	Residential	1	SE	62	58	61	57	62	58	62	58	-0.4	-0.4	-0.5	-0.5	60	55	NO	NO	NO	NO	NO	
15	15_0027	Residential	G	SE	59	55	59	55	60	56	60	56	-0.2	-0.2	-0.3	-0.4	60	55	NO	NO	NO	NO	NO	
15	15_0027	Residential	1	SE	62	58	61	58	63	59	62	58	-0.3	-0.3	-0.3	-0.4	60	55	NO	NO	NO	NO	NO	
15	15_0028	Residential	G	SE	59	55	59	55	60	56	59	56	-0.1	-0.2	-0.2	-0.3	60	55	NO	NO	NO	NO	NO	
15	15_0028	Residential	1	SE	62	58	61	58	63	59	62	58	-0.3	-0.4	-0.4	-0.5	60	55	NO	NO	NO	NO	NO	
15	15_0029	Residential	G	S	59	55	59	55	60	56	59	55	-0.3	-0.5	-0.4	-0.5	60	55	NO	NO	NO	NO	NO	
15	15_0029	Residential	1	E	63	59	62	58	63	60	63	59	-0.3	-0.4	-0.4	-0.4	60	55	NO	NO	NO	NO	NO	
15	15_0030	Residential	G	E	58	54	58	54	59	55	58	54	-0.1	-0.1	-0.2	-0.3	60	55	NO	NO	NO	NO	NO	
15	15_0031	Residential	G	E	59	55	59	55	60	56	59	55	-0.4	-0.4	-0.5	-0.6	60	55	NO	NO	NO	NO	NO	
15	15_0032	Residential	G	SW	53	49	53	49	54	50	53	49	-0.2	-0.3	-0.3	-0.5	60	55	NO	NO	NO	NO	NO	
15	15_0032	Residential	1	SE	58	54	58	54	59	55	59	55	-0.3	-0.4	-0.4	-0.5	60	55	NO	NO	NO	NO	NO	
15	15_0033	Residential	G	SW	49	45	49	45	50	46	50	46	-0.3	-0.3	-0.2	-0.3	60	55	NO	NO	NO	NO	NO	
15	15_0033	Residential	1	SW	54	49	53	49	54	50	54	50	-0.2	-0.2	-0.3	-0.3	60	55	NO	NO	NO	NO	NO	
15	15_0034	Residential	G	NW	50	45	51	45	51	45	51	45	0.5	0.4	0.3	0.2	60	55	NO	NO	NO	NO	NO	
15	15_0034	Residential	1	SW	52	48	52	48	53	49	53	49	-0.1	-0.1	-0.1	-0.2	60	55	NO	NO	NO	NO	NO	
15	15_0035	Residential	G	SW	53	48	53	48	54	49	53	48	-0.1	-0.2	-0.3	-0.4	60	55	NO	NO	NO	NO	NO	
15	15_0035	Residential	1	SW	57	53	57																	

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						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				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	
15	15_0053		Residential	1	SW	61	57	60	56	61	57	61	57	-0.3	-0.4	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0054		Residential	G	SE	59	55	59	55	60	56	60	56	-0.4	-0.4	-0.4	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0054		Residential	1	SW	62	59	62	58	63	59	63	59	-0.3	-0.3	-0.3	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0055		Residential	G	S	64	60	64	60	65	61	64	61	-0.1	-0.2	-0.2	-0.2	60	55	NO	YES	NO	YES	YES
15	15_0055		Residential	1	E	68	64	68	64	69	65	68	64	-0.1	-0.1	-0.1	-0.2	60	55	YES	YES	YES	YES	YES
15	15_0056		Residential	G	SE	66	62	66	62	67	63	67	63	-0.1	-0.2	-0.2	-0.2	60	55	YES	YES	YES	YES	YES
15	15_0057		Residential	G	NE	64	60	64	60	65	61	65	61	0.2	0.3	0.3	0.3	60	55	YES	YES	YES	YES	YES
15	15_0058		Residential	G	NE	62	58	62	58	63	59	63	59	-0.1	-0.1	0	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0059		Residential	G	NE	61	57	60	56	62	58	61	57	-0.3	-0.2	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
15	15_0060		Residential	G	NE	60	56	60	56	61	57	61	57	-0.3	-0.4	-0.2	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0061		Residential	G	SE	59	55	59	55	60	56	60	56	-0.3	-0.2	-0.2	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0062		Residential	G	NE	57	52	56	52	57	53	57	53	-0.2	-0.3	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
15	15_0063		Residential	G	SE	61	57	61	57	62	58	62	58	0	0	0.1	0	60	55	NO	NO	NO	NO	NO
15	15_0064		Residential	G	SE	62	58	62	58	63	59	63	59	0.1	0.2	0.2	0.2	60	55	NO	NO	NO	NO	NO
15	15_0065		Residential	G	SE	64	60	65	61	65	61	66	62	0.4	0.5	0.4	0.5	60	55	YES	YES	YES	YES	YES
15	15_0066		Residential	G	SE	65	61	65	61	66	62	66	62	0.3	0.4	0.4	0.3	60	55	YES	YES	YES	YES	YES
15	15_0067		Residential	G	E	66	62	67	63	67	63	68	64	0.4	0.4	0.3	0.3	60	55	YES	YES	YES	YES	YES
15	15_0068		Residential	G	E	66	62	66	62	67	63	67	63	0.1	0.1	0.1	0.1	60	55	YES	YES	YES	YES	YES
15	15_0069		Residential	G	E	66	62	66	62	67	63	67	63	0.1	0.1	0.1	0.1	60	55	YES	YES	YES	YES	YES
15	15_0070		Residential	G	E	67	63	67	62	68	64	68	63	-0.1	-0.1	0	-0.1	60	55	YES	YES	YES	YES	YES
15	15_0071		Residential	G	NE	64	60	64	60	65	61	65	61	-0.3	-0.3	-0.2	-0.4	60	55	YES	YES	YES	YES	YES
15	15_0072		Residential	G	NE	64	59	63	59	65	60	64	60	-0.5	-0.6	-0.5	-0.5	60	55	NO	YES	NO	YES	YES
15	15_0073		Residential	G	NE	61	57	60	56	62	58	61	57	-0.3	-0.3	-0.3	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0074		Residential	G	E	63	59	62	58	64	60	63	59	-0.4	-0.4	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0075		Residential	G	E	67	63	67	63	68	64	68	64	-0.3	-0.3	-0.3	-0.3	60	55	YES	YES	YES	YES	YES
15	15_0076		Residential	G	E	65	61	65	61	66	62	66	62	-0.3	-0.3	-0.2	-0.3	60	55	YES	YES	YES	YES	YES
15	15_0076		Residential	1	E	68	63	68	63	69	64	69	64	-0.2	-0.1	-0.1	-0.1	60	55	YES	YES	YES	YES	YES
15	15_0077		Residential	G	E	66	61	65	61	67	62	66	62	-0.2	-0.2	-0.1	-0.2	60	55	YES	YES	YES	YES	YES
15	15_0078		Residential	G	E	66	62	66	62	67	63	67	63	-0.1	-0.1	-0.1	0	60	55	YES	YES	YES	YES	YES
15	15_0078		Residential	1	E	69	64	68	64	69	65	69	65	-0.2	-0.1	-0.1	-0.1	60	55	YES	YES	YES	YES	YES
15	15_0079		Residential	G	E	66	61	66	61	67	62	67	62	0	0.1	0.1	0.1	60	55	YES	YES	YES	YES	YES
15	15_0080		Residential	G	E	63	58	63	59	64	59	64	60	0.5	0.5	0.6	0.5	60	55	NO	YES	NO	NO	YES
15	15_0080		Residential	1	E	66	61	66	61	67	62	67	63	0.1	0.1	0.2	0.2	60	55	YES	YES	YES	YES	YES
15	15_0081		Residential	G	E	64	60	64	60	65	61	65	61	0.7	0.7	0.8	0.7	60	55	YES	YES	YES	YES	YES
15	15_0082		Residential	G	E	63	59	64	60	64	60	65	61	0.8	0.8	1	0.8	60	55	YES	YES	NO	YES	YES
15	15_0083		Residential	G	E	63	58	63	59	63	59	64	60	0.8	0.8	0.9	0.8	60	55	NO	YES	NO	YES	YES
15	15_0084		Residential	G	E	63	59	63	59	64	60	64	60	0.7	0.7	0.7	0.7	60	55	NO	YES	NO	YES	YES
15	15_0085		Residential	G	E	62	58	63	58	63	59	64	60	0.6	0.6	0.7	0.6	60	55	NO	YES	NO	NO	YES
15	15_0086		Residential	G	E	63	59	63	59	64	60	64	60	0.7	0.7	0.7	0.7	60	55	NO	YES	NO	NO	YES
15	15_0087		Residential	G	E	64	60	64	60	65	61	66	62	0.7	0.7	0.9	0.8	60	55	YES	YES	YES	YES	YES
15	15_0088		Residential	G	E	64	60	65	61	65	61	66	62	0.5	0.5	0.5	0.5	60	55	YES	YES	NO	NO	YES
15	15_0088		Residential	1	E	68	64	69	65	69	65													

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
15	15_0118		Residential	G	E	54	49	54	49	55	50	54	50	-0.1	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0119		Residential	G	E	53	49	53	49	54	50	54	50	0	-0.1	0	0	60	55	NO	NO	NO	NO	NO
15	15_0120		Residential	G	E	53	49	53	49	54	50	54	50	-0.1	-0.1	0	0	60	55	NO	NO	NO	NO	NO
15	15_0121		Residential	G	NE	53	49	53	49	54	50	54	50	0	0	0.1	0	60	55	NO	NO	NO	NO	NO
15	15_0122		Residential	G	NE	54	50	54	50	55	51	55	51	0.1	0	0.1	0.1	60	55	NO	NO	NO	NO	NO
15	15_0123		Residential	G	NE	54	50	54	50	55	51	55	51	0	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
15	15_0124		Residential	G	S	53	49	53	49	54	50	54	50	0.1	0	0.1	0.1	60	55	NO	NO	NO	NO	NO
15	15_0125		Residential	G	E	54	50	54	50	55	51	55	51	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
15	15_0126		Residential	G	E	55	50	55	50	55	51	56	51	0.1	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
15	15_0127		Residential	G	E	54	50	54	50	55	51	55	51	0.1	0.1	0.1	0.1	60	55	NO	NO	NO	NO	NO
15	15_0127		Residential	1	E	55	51	56	51	56	52	57	52	0.2	0.2	0.3	0.3	60	55	NO	NO	NO	NO	NO
15	15_0128		Residential	G	NE	55	50	55	50	55	51	56	51	0	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
15	15_0129		Residential	G	E	54	50	54	50	55	51	55	51	0	0	0.1	0	60	55	NO	NO	NO	NO	NO
15	15_0129		Residential	1	E	56	52	56	52	57	53	57	53	0	0	0.1	0.1	60	55	NO	NO	NO	NO	NO
15	15_0130		Residential	G	S	52	47	52	47	53	48	53	48	-0.1	0	0	0	60	55	NO	NO	NO	NO	NO
15	15_0131		Residential	G	E	56	51	56	51	57	52	57	52	-0.1	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0131		Residential	1	E	58	54	58	54	59	55	59	55	0	0	0.1	0.1	60	55	NO	NO	NO	NO	NO
15	15_0132		Residential	G	NE	56	52	56	52	57	53	57	53	-0.2	-0.2	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
15	15_0132		Residential	1	NE	59	55	59	55	60	56	60	56	-0.2	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0133		Residential	G	NE	57	53	57	52	58	54	58	53	-0.2	-0.1	0	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0134		Residential	G	E	55	51	55	50	56	52	56	51	-0.1	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0134		Residential	1	E	57	53	57	53	58	53	58	53	0	0	0	0	60	55	NO	NO	NO	NO	NO
15	15_0135		Residential	G	E	55	51	55	51	56	52	56	52	0	0	0	0	60	55	NO	NO	NO	NO	NO
15	15_0136		Residential	G	E	55	51	55	51	56	52	56	52	0	0	0.1	0.1	60	55	NO	NO	NO	NO	NO
15	15_0137		Residential	G	E	55	51	55	51	56	52	56	52	0	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
15	15_0138		Residential	G	E	55	51	55	51	56	52	56	52	0.2	0.2	0.2	0.2	60	55	NO	NO	NO	NO	NO
15	15_0139		Residential	G	E	55	51	55	51	56	52	56	52	0.1	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
15	15_0140		Residential	G	E	55	51	56	51	56	52	57	52	0.1	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
15	15_0141		Residential	G	E	55	51	56	51	56	52	57	52	0.2	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
15	15_0142		Residential	G	NE	56	52	56	52	57	53	57	53	0.3	0.3	0.3	0.3	60	55	NO	NO	NO	NO	NO
15	15_0143		Residential	G	NE	56	52	56	52	57	53	57	53	0.2	0.3	0.3	0.2	60	55	NO	NO	NO	NO	NO
15	15_0144		Residential	G	NE	56	52	56	52	57	53	57	53	0	0	0	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0145		Residential	G	E	56	52	56	51	57	52	57	52	0	-0.1	0	0	60	55	NO	NO	NO	NO	NO
15	15_0146		Residential	G	E	57	53	57	52	58	53	58	53	-0.1	-0.1	-0.2	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0146		Residential	1	E	60	55	60	55	60	56	60	56	0	0	0	0.1	60	55	NO	NO	NO	NO	NO
15	15_0147		Residential	G	S	56	52	56	52	57	53	57	53	0	0	0.1	0.1	60	55	NO	NO	NO	NO	NO
15	15_0148		Residential	G	E	58	54	58	54	59	55	59	55	-0.2	-0.2	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0148		Residential	1	E	60	56	60	56	61	57	61	57	-0.1	0	0	0.1	60	55	NO	NO	NO	NO	NO
15	15_0149		Residential	G	S	57	53	57	53	58	54	58	54	-0.1	-0.1	0	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0150		Residential	G	NE	57	53	57	53	58	54	58	54	0	0	0.1	0	60	55	NO	NO	NO	NO	NO
15	15_0151		Residential	G	E	56	52	57	52	57	53	58	53	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
15	15_0151		Residential	1	E	58	54	58	54	59	55	59	5											

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						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
15	15_0185		Residential	G	NE	54	50	54	50	55	51	55	51	-0.2	-0.2	-0.1	-0.2	60	55	NO	NO	NO	NO	NO
15	15_0185		Residential	1	NE	56	52	56	52	57	53	57	53	-0.2	-0.2	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
15	15_0186		Residential	G	NE	54	50	54	49	55	50	54	50	-0.3	-0.3	-0.3	-0.2	60	55	NO	NO	NO	NO	NO
15	15_0187		Residential	G	NE	54	49	53	49	54	50	54	50	-0.2	-0.2	-0.2	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0187		Residential	1	NE	57	52	56	52	58	53	57	53	-0.3	-0.3	-0.3	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0188		Residential	G	SE	56	52	55	51	56	52	56	52	-0.3	-0.4	-0.3	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0188		Residential	1	SE	60	56	59	55	61	57	60	56	-0.3	-0.3	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0189		Residential	G	NE	56	52	56	52	57	53	57	53	-0.3	-0.2	-0.2	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0190		Residential	G	NE	56	52	56	52	57	53	57	53	-0.2	-0.2	-0.2	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0191		Residential	G	NE	58	54	58	54	59	55	59	55	-0.3	-0.2	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
15	15_0192		Residential	G	NW	55	50	55	50	56	50	55	50	-0.1	-0.1	-0.3	-0.2	60	55	NO	NO	NO	NO	NO
15	15_0193		Residential	G	NE	53	48	53	48	54	49	54	49	-0.2	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0194		Residential	G	NE	53	49	53	49	54	49	54	49	-0.1	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
15	15_0195		Residential	G	NE	53	48	52	48	53	49	53	49	-0.2	-0.2	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
15	15_0196		Residential	G	NW	57	51	57	51	57	50	56	50	-0.2	-0.1	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0196		Residential	1	SW	58	52	58	52	58	52	58	52	-0.3	-0.2	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0197		Residential	G	NW	57	51	57	51	57	51	57	51	-0.2	-0.1	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0198		Residential	G	NW	57	51	57	51	57	51	57	51	-0.2	-0.1	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0199		Residential	G	NW	57	51	57	51	57	51	56	50	-0.2	-0.2	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0200		Residential	G	NW	57	51	56	50	56	51	56	50	-0.2	-0.2	-0.3	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0201		Residential	G	NW	55	49	55	49	55	49	54	49	-0.2	-0.1	-0.3	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0202		Residential	G	NW	55	49	55	49	55	49	54	49	-0.2	-0.1	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0203		Residential	G	NW	55	49	55	49	55	49	54	49	-0.3	-0.2	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0204		Residential	G	SW	55	50	54	49	55	50	54	49	-0.5	-0.6	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0204		Residential	1	SW	57	52	57	52	57	53	57	52	-0.5	-0.6	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0205		Residential	G	SW	55	50	55	50	55	51	55	50	-0.4	-0.5	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0206		Residential	G	SW	55	50	54	50	55	51	55	50	-0.5	-0.6	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
15	15_0206		Residential	1	SW	57	53	57	52	58	54	57	53	-0.6	-0.6	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0207		Residential	G	SW	55	50	54	50	55	51	55	50	-0.4	-0.6	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0207		Residential	1	SW	57	53	57	53	58	54	57	53	-0.5	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0208		Residential	G	SW	56	52	55	51	56	52	56	51	-0.5	-0.6	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0208		Residential	1	SE	58	54	57	53	58	54	58	54	-0.6	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0209		Residential	G	SW	57	53	57	52	58	54	57	53	-0.5	-0.6	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0210		Residential	G	SW	57	53	57	52	58	54	57	53	-0.6	-0.6	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0210		Residential	1	SE	59	54	58	54	59	55	59	55	-0.6	-0.6	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0211		Residential	G	SW	56	52	56	52	57	53	56	52	-0.6	-0.7	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0211		Residential	1	SW	58	54	58	54	59	55	58	54	-0.5	-0.6	-0.7	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0212		Residential	G	SE	56	52	56	52	57	53	57	53	-0.4	-0.4	-0.4	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0212		Residential	1	SE	60	56	60	56	61	57	61	56	-0.5	-0.5	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0213		Residential	G	SW	57	53	57	53	58	54	57	53	-0.5	-0.5	-0.5	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0214		Residential	G	SW	57	53	56	52	57	53	57	53	-0.3	-0.4	-0.4	-0.6							

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						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
15	15_0235		Residential	1	SW	56	51	55	50	56	51	55	50	-0.6	-0.7	-0.8	-1	60	55	NO	NO	NO	NO	NO
15	15_0236		Residential	G	SE	50	45	49	45	50	46	50	45	-0.3	-0.4	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0236		Residential	1	SE	54	50	54	49	55	51	54	50	-0.5	-0.7	-0.6	-0.9	60	55	NO	NO	NO	NO	NO
15	15_0237		Residential	G	SW	53	47	52	47	53	48	52	47	-0.3	-0.3	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0237		Residential	1	SW	56	51	56	51	57	52	56	51	-0.3	-0.3	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0238		Residential	G	SW	56	50	56	50	56	50	56	50	-0.2	-0.2	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0238		Residential	1	SW	59	54	59	53	59	54	59	53	-0.3	-0.5	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0239		Residential	G	SW	57	51	56	51	57	51	56	50	-0.3	-0.2	-0.4	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0240		Residential	G	W	57	51	57	50	57	50	56	50	-0.3	-0.2	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0240		Residential	1	W	59	53	59	53	59	53	58	52	-0.3	-0.3	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0241		Residential	G	W	57	50	57	50	56	50	56	50	-0.3	-0.2	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0241		Residential	1	W	59	52	58	52	58	52	58	52	-0.2	-0.2	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0242		Residential	G	W	57	50	56	50	56	50	56	50	-0.2	-0.2	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0243		Residential	G	SW	55	49	55	49	55	49	54	48	-0.3	-0.2	-0.4	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0243		Residential	1	SW	57	51	57	51	57	51	57	51	-0.3	-0.2	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0244		Residential	G	SW	55	50	55	50	55	50	55	50	-0.3	-0.3	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
15	15_0244		Residential	1	SW	58	53	57	52	58	53	57	53	-0.5	-0.4	-0.7	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0245		Residential	G	SW	56	51	56	51	56	52	56	51	-0.5	-0.6	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0245		Residential	1	SW	58	53	57	53	58	54	58	53	-0.6	-0.7	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
15	15_0246		Residential	G	SW	56	52	55	51	57	52	56	51	-0.7	-0.8	-0.9	-1	60	55	NO	NO	NO	NO	NO
15	15_0246		Residential	1	SW	58	53	57	52	58	54	57	53	-0.7	-0.7	-0.9	-0.9	60	55	NO	NO	NO	NO	NO
15	15_0247		Residential	G	SW	55	51	55	50	56	51	55	51	-0.6	-0.6	-0.7	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0247		Residential	1	SW	58	53	57	52	58	54	57	53	-0.8	-0.7	-0.9	-1	60	55	NO	NO	NO	NO	NO
15	15_0248		Residential	G	SW	68	62	68	62	68	62	67	61	-0.3	-0.3	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0249		Residential	G	SW	67	61	67	60	67	61	66	60	-0.3	-0.3	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0249		Residential	1	SW	68	62	67	61	68	62	67	61	-0.3	-0.3	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0250		Residential	G	SW	66	59	65	59	65	59	65	59	-0.3	-0.3	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0250		Residential	1	SW	67	61	67	60	67	61	66	60	-0.4	-0.4	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0251		Residential	G	SW	65	59	65	59	65	59	65	59	-0.4	-0.4	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0251		Residential	1	SW	67	61	67	61	67	61	66	60	-0.5	-0.4	-0.8	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0252		Residential	G	SW	63	57	63	56	63	57	62	56	-0.6	-0.6	-0.9	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0252		Residential	1	SW	66	59	65	59	65	59	65	59	-0.4	-0.4	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0253		Residential	G	SW	65	59	65	59	65	59	64	58	-0.5	-0.4	-0.7	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0253		Residential	1	SW	67	61	67	61	67	61	66	60	-0.2	-0.2	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0254		Residential	G	SW	67	61	67	61	67	61	66	60	-0.2	-0.2	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0255		Residential	G	SW	64	58	64	58	64	58	63	57	-0.3	-0.4	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0256		Residential	G	SW	61	55	61	55	61	55	60	54	-0.4	-0.4	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0256		Residential	1	SW	65	59	65	59	65	59	64	58	-0.4	-0.4	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0257		Residential	G	SW	63	57	63	57	63	57	62	56	-0.3	-0.3	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0258		Residential	G	SW	57	53	57	53	58	54	57	53	-0.4	-0.6	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0258		Residential	1	SW	59	55	59	54	60	56	59	55	-0.5	-0.5	-0.6	-0.7							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night							
16	16_0005		Residential	G	SW	61	57	61	57	62	58	62	58	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0006		Residential	G	SW	60	56	60	56	61	57	61	57	0.1	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0007		Residential	G	SW	60	57	60	57	61	58	61	58	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0008		Residential	G	SW	59	56	59	56	60	57	60	57	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0009		Residential	G	SW	59	55	59	56	60	56	60	57	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0010		Residential	G	SW	58	54	58	54	59	55	59	55	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0011		Residential	G	SW	57	53	57	54	58	54	58	55	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0011		Residential	1	SW	59	55	59	55	60	56	60	56	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0012		Residential	G	SW	56	52	56	52	57	53	57	53	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0012		Residential	1	SW	58	54	58	54	59	55	59	56	0.2	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0013		Residential	G	SW	56	52	56	52	57	53	57	53	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0013		Residential	1	SW	58	54	58	54	59	55	59	55	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0014		Residential	G	SW	55	51	55	51	56	52	56	52	0.1	0	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0014		Residential	1	SW	57	53	57	53	58	54	58	54	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0015		Residential	G	SW	55	52	56	52	56	53	57	53	0.3	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0015		Residential	1	SW	57	54	57	54	58	55	58	55	0.2	0.2	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0016		Residential	G	SW	55	52	55	52	56	53	56	53	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0016		Residential	1	SW	57	53	57	54	58	54	58	55	0.1	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0017		Residential	G	W	55	52	56	52	56	53	57	53	0.2	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0017		Residential	1	W	57	54	57	54	58	55	58	55	0.2	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0018		Residential	G	W	56	52	56	52	56	53	57	53	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0018		Residential	1	W	57	54	57	54	58	55	58	55	0.2	0.2	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0019		Residential	G	W	54	51	54	51	55	52	55	52	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0019		Residential	1	W	56	53	56	53	57	54	57	54	0.1	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0020		Residential	G	NW	54	51	54	51	55	52	55	52	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0020		Residential	1	NW	56	52	56	53	57	53	57	54	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0021		Residential	G	NW	54	50	54	50	55	51	55	51	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0021		Residential	1	NW	56	52	56	53	57	53	57	54	0.2	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0022		Residential	G	NW	53	50	54	50	54	51	55	51	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0022		Residential	1	SW	56	52	56	52	57	53	57	53	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0023		Residential	G	SW	54	51	55	51	55	52	56	52	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0023		Residential	1	SW	56	53	56	53	57	54	57	54	0.2	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0024		Residential	G	W	54	51	54	51	55	52	55	52	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0025		Residential	G	SW	54	50	54	50	55	51	55	51	0.1	0	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0025		Residential	1	SW	55	52	55	52	56	53	56	53	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0026		Residential	G	W	62	58	62	58	63	59	63	59	0	0	0.1	0.1	60	55	NO	NO	NO	NO	NO
16	16_0027		Residential	G	W	62	59	63	59	63	60	64	60	0.1	0	0.1	0.1	60	55	NO	NO	NO	NO	NO
16	16_0028		Residential	G	SW	62	58	62	58	63	59	63	59	0.2	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0029		Residential	G	SW	62	58	62	58	63	59	63	59	0.2	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0030		Residential	G	NW	63	59	63	59	63	60	64	60	0.1	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0031		Residential	G	SW	62	58	62	58	63	59	63	59	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0032		Residential	G	SW	62	58	62	58	63	59	63	59	0.1	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0033		Residential	G	SW	61	57	61																

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
16	16_0065		Residential	G	NW	59	55	59	55	60	56	60	56	0.2	0.2	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0066		Residential	G	SW	59	56	60	56	60	57	61	57	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0067		Residential	G	W	58	54	58	54	59	55	59	55	0.2	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0068		Residential	G	W	60	56	60	57	61	57	61	58	0.2	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0069		Residential	G	SW	60	57	61	57	61	58	62	58	0.2	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0070		Residential	G	SW	60	57	61	57	61	58	62	58	0.3	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0071		Residential	G	SW	61	57	61	57	62	58	62	59	0.2	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0072		Residential	G	NW	61	58	61	58	62	59	62	59	0.2	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0073		Residential	G	SW	60	57	61	57	61	58	62	58	0.4	0.3	0.5	0.3	60	55	NO	NO	NO	NO	NO
16	16_0074		Residential	G	W	63	59	63	60	64	60	64	61	0.1	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0075		Residential	G	W	63	59	63	59	64	60	64	60	0.2	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0075		Residential	1	W	64	60	64	60	65	61	65	61	0.3	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0076		Residential	G	W	62	59	63	59	63	60	64	60	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0077		Residential	G	SW	62	58	62	58	63	59	63	60	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0078		Residential	G	SW	62	58	62	58	63	59	63	59	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0079		Residential	G	SW	61	57	61	58	62	58	62	59	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0080		Residential	G	SW	61	57	61	57	62	58	62	58	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0081		Residential	G	SW	60	57	60	57	61	58	61	58	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0082		Residential	G	SW	60	56	60	56	61	57	61	58	0.2	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0083		Residential	G	SW	60	56	60	56	61	57	61	57	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0084		Residential	G	SW	59	55	59	56	60	57	60	57	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0085		Residential	G	SW	59	55	59	55	60	56	60	56	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0086		Residential	G	SW	58	55	58	55	59	56	59	56	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0086		Residential	1	NW	60	56	60	56	61	57	61	57	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0087		Residential	G	SW	59	55	59	55	60	56	60	56	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0088		Residential	G	NW	58	54	58	54	59	55	59	55	0.3	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0088		Residential	1	NW	60	56	60	56	61	57	61	57	0.2	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0089		Residential	G	SW	58	54	58	55	59	55	59	56	0.1	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0090		Residential	G	NW	55	51	55	52	56	52	56	53	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0091		Residential	G	NW	56	52	56	52	57	53	57	53	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0091		Residential	1	SW	58	55	58	55	59	56	59	56	0.1	0	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0092		Residential	G	SW	56	52	56	52	57	53	57	53	0.2	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0092		Residential	1	SW	58	54	58	54	59	55	59	56	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0093		Residential	G	W	57	53	57	53	57	54	58	54	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0094		Residential	G	W	56	52	56	52	57	53	57	53	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0094		Residential	1	W	58	54	58	54	59	55	59	56	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0095		Residential	G	NW	56	52	56	52	57	53	57	53	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0096		Residential	G	NW	57	53	57	54	58	55	58	55	0.2	0.2	0.4	0.2	60	55	NO	NO	NO	NO	NO
16	16_0097		Residential	G	SW	57	53	57	53	58	54	58	54	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0097		Residential	1	NW	59	55	59	55	60	56	60	56	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0098		Residential	G	SW	56	53	56	53	57	54	57	54	0.2	0.1	0.3	0.1	60	55					

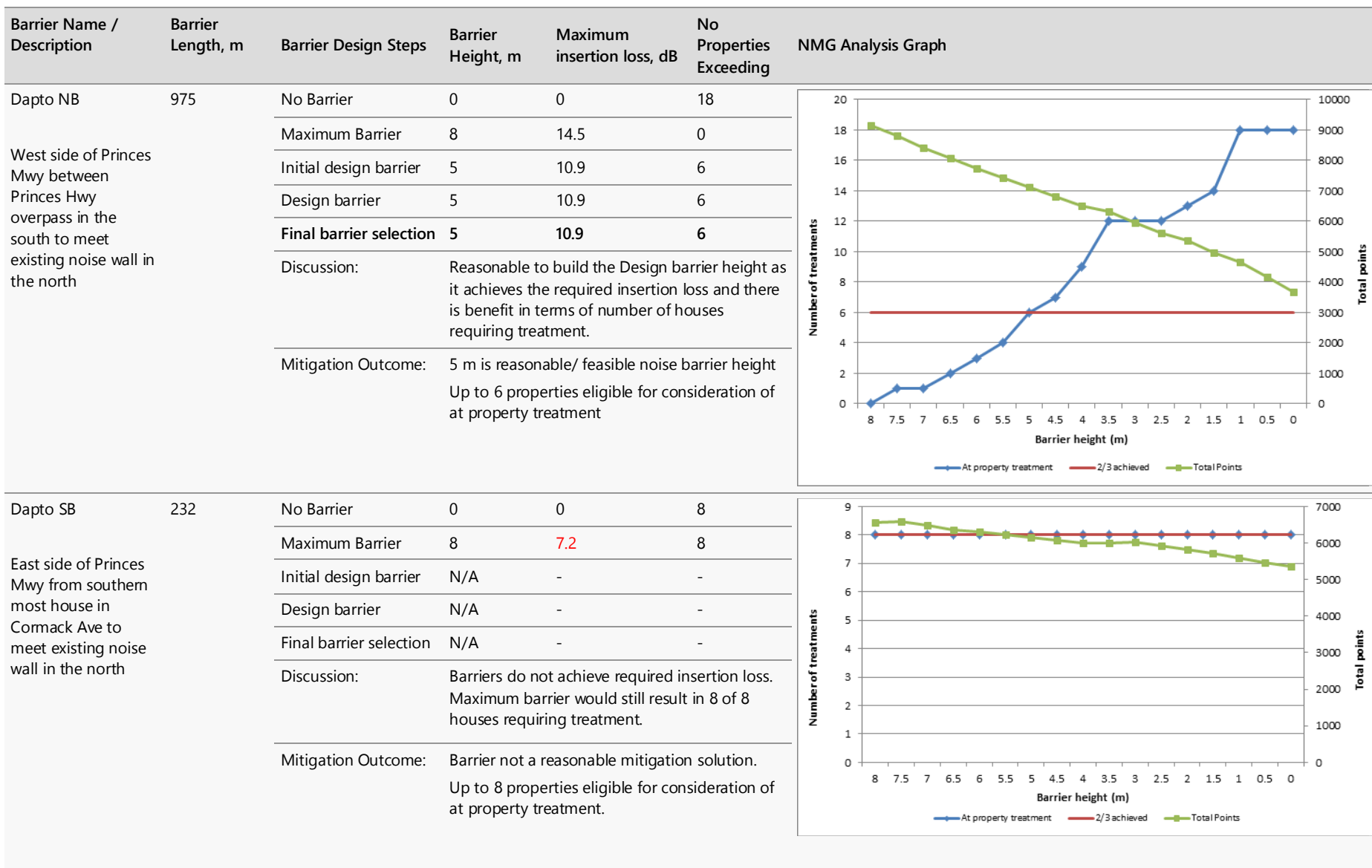
NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				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	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
16	16_0134		Residential	G	NW	54	50	54	50	55	51	55	51	0.1	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0135		Residential	G	W	54	50	54	50	55	51	55	51	0.2	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0136		Residential	G	W	54	51	54	51	55	52	55	52	0.2	0.2	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0137		Residential	G	W	55	51	55	51	56	52	56	52	0.2	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0138		Residential	G	W	55	51	55	51	56	52	56	52	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0139		Residential	G	NW	55	51	55	51	56	52	56	52	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0140		Residential	G	NW	54	50	54	50	55	51	55	51	0.2	0	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0140		Residential	1	NW	56	52	56	52	57	53	57	53	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0141		Residential	G	SW	53	49	53	49	54	50	54	50	0.2	0.1	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0141		Residential	1	SW	54	51	54	51	55	52	55	52	0.2	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0142		Residential	G	SW	51	47	51	47	52	48	52	48	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0142		Residential	1	SW	52	48	52	48	53	49	53	49	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0143		Residential	G	SW	52	48	52	49	53	49	53	50	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0143		Residential	1	SW	53	50	53	50	54	51	54	51	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0144		Residential	G	SW	52	48	52	48	53	49	53	49	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0144		Residential	1	SW	53	49	53	50	54	50	54	51	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0145		Residential	G	SW	53	49	53	49	53	50	54	50	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0146		Residential	G	SW	52	48	52	48	53	49	53	49	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0146		Residential	1	SW	53	49	53	49	54	50	54	50	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0147		Residential	G	W	50	46	50	46	51	47	51	47	0.1	0	0.1	0	60	55	NO	NO	NO	NO	NO
16	16_0148		Residential	G	W	52	48	52	49	53	49	53	50	0.2	0.2	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0149		Residential	G	N	53	49	53	49	54	50	54	50	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0150		Residential	G	NE	51	47	51	47	52	48	52	48	0.1	0	0.1	0.1	60	55	NO	NO	NO	NO	NO
16	16_0151		Residential	G	W	52	48	52	49	53	49	53	50	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0152		Residential	G	N	53	49	53	49	54	50	54	50	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0153		Residential	G	N	53	50	53	50	54	51	54	51	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0154		Residential	G	N	53	49	53	49	54	50	54	50	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0155		Residential	G	N	51	47	51	47	52	48	52	48	0	0	0	0.1	60	55	NO	NO	NO	NO	NO
16	16_0155		Residential	1	N	54	50	54	51	55	51	55	52	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0156		Residential	G	N	54	50	54	50	55	51	55	51	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0157		Residential	G	N	55	51	55	51	56	52	56	52	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0158		Residential	G	N	55	52	56	52	56	53	57	53	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0159		Residential	G	N	56	52	56	52	57	53	57	53	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0160		Residential	G	N	56	53	57	53	57	54	58	54	0.1	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0160		Residential	1	N	57	53	57	53	58	54	58	54	0.1	0	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0161		Residential	G	N	56	53	57	53	57	54	58	54	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0161		Residential	1	N	57	53	57	53	58	54	58	55	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0162		Residential	G	W	56	52	56	52	57	53	57	54	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0163		Residential	G	N	54	51	54	50	55	51	55	51	0	-0.1	0.1	0	60	55	NO	NO	NO	NO	NO
16	16_0164		Residential	G	N	57	54	57	54	58	55	58	55	0.2	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0165		Residential	G	N	58	54	58	54	59	55	59	55	0.1	0.1	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0166		Residential	G	W	59	55	59	55	60	56													

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
16	16_0190		Residential	G	SW	47	44	47	44	48	45	48	45	0.2	0	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0190		Residential	1	SW	48	45	49	45	49	46	50	46	0.2	0.1	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0191		Residential	G	SW	51	48	52	48	52	49	53	49	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0191		Residential	1	SW	52	48	52	48	53	49	53	49	0.2	0	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0192		Residential	G	SW	47	43	47	43	48	44	48	44	-0.2	-0.4	-0.1	-0.3	60	55	NO	NO	NO	NO	NO
16	16_0192		Residential	1	NE	50	46	50	46	51	47	51	47	-0.1	-0.1	0	0	60	55	NO	NO	NO	NO	NO
16	16_0193		Residential	G	NW	55	51	55	51	55	52	56	52	0	0.1	0.1	0.1	60	55	NO	NO	NO	NO	NO
16	16_0193		Residential	1	NW	55	51	55	51	56	52	56	52	0	0.1	0.1	0.1	60	55	NO	NO	NO	NO	NO
16	16_0194		Residential	G	SW	51	47	51	47	52	48	52	48	0	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0194		Residential	1	SW	53	49	53	49	54	50	54	50	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0195		Residential	G	SW	52	48	52	49	53	49	53	50	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0195		Residential	1	NW	54	50	54	50	55	51	55	51	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0196		Residential	G	W	53	49	53	49	53	50	54	50	0.1	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0196		Residential	1	W	54	50	54	50	55	51	55	51	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0197		Residential	G	SW	53	49	53	49	54	50	54	50	0.2	0.2	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0197		Residential	1	NW	54	50	54	50	55	51	55	51	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0198		Residential	G	NW	52	48	52	48	53	49	53	49	0	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0199		Residential	G	SW	52	49	52	49	53	50	53	50	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0200		Residential	G	SW	51	47	51	47	52	48	52	48	0.2	0.1	0.4	0.1	60	55	NO	NO	NO	NO	NO
16	16_0200		Residential	1	SW	53	49	53	50	54	50	54	51	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0201		Residential	G	SW	52	48	52	49	53	49	53	50	0.3	0.2	0.4	0.2	60	55	NO	NO	NO	NO	NO
16	16_0201		Residential	1	SW	54	50	54	50	55	51	55	51	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0202		Residential	G	SW	55	51	55	51	55	52	56	52	0.2	0	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0203		Residential	G	SW	55	51	55	51	56	52	56	52	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0203		Residential	1	NW	56	52	56	52	57	53	57	53	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0204		Residential	G	SW	54	50	54	50	55	51	55	51	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0205		Residential	G	SW	55	52	56	52	56	53	57	53	0.1	0	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0206		Residential	G	N	55	52	56	52	56	53	57	53	0.2	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0206		Residential	1	W	57	53	57	53	58	54	58	54	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0207		Residential	G	N	55	51	55	51	55	52	56	52	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0207		Residential	1	W	56	53	56	53	57	54	57	54	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0208		Residential	G	NW	54	51	54	51	55	52	55	52	0.1	0.1	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0208		Residential	1	SW	56	52	56	52	57	53	57	53	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0209		Residential	G	NW	56	52	56	52	57	53	57	53	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0210		Residential	G	NW	55	51	55	51	56	52	56	52	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0210		Residential	1	NW	56	53	56	53	57	54	57	54	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0211		Residential	G	SW	52	49	52	49	53	50	53	50	0.2	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0211		Residential	1	SW	53	50	54	50	54	51	55	51	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0212		Residential	G	SW	54	50	54	51	55	51	55	52	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0213		Residential	G	SW	54	50	54	50	55	51	55	52	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0214		Residential	G	SW	54	50	54	51	55	51	55	52	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO

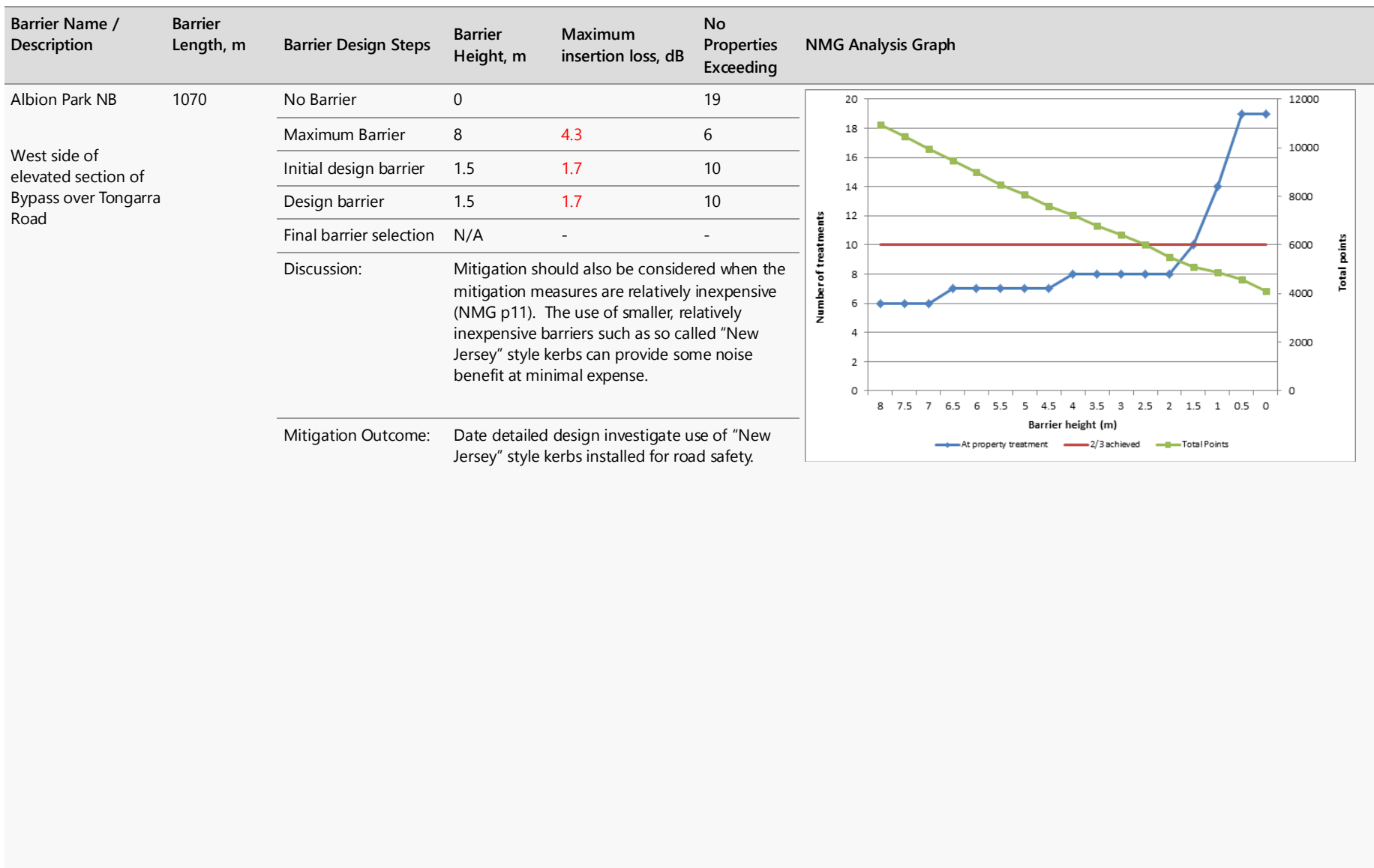
NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h				
16	16_0236		Residential	1	N	57	53	57	53	58	54	58	54	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0237		Residential	G	N	57	53	57	54	58	54	58	55	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0238		Residential	G	N	57	54	57	54	58	55	58	55	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0238		Residential	1	N	58	55	58	55	59	56	60	56	0	0.1	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0239		Residential	G	N	58	54	58	54	59	55	59	55	0	0	0.1	0	60	55	NO	NO	NO	NO	NO
16	16_0239		Residential	1	N	59	56	60	56	60	57	61	57	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0240		Residential	G	W	59	56	59	56	60	57	60	57	0.2	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0240		Residential	1	N	60	56	60	56	61	57	61	57	0.1	0	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0241		Residential	G	N	59	55	59	55	60	56	60	56	0.2	0.1	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0241		Residential	1	N	60	57	61	57	61	58	62	58	0.1	0.1	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0242		Residential	G	N	58	55	58	55	59	56	59	56	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0242		Residential	1	N	61	57	61	57	61	58	62	58	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0243		Residential	G	W	60	56	60	56	61	57	61	57	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0243		Residential	1	W	62	58	62	58	63	59	63	59	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0244		Residential	G	W	60	56	60	56	61	57	61	57	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0244		Residential	1	W	61	58	61	58	62	59	62	59	0.2	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0245		Residential	G	W	61	57	61	57	62	58	62	58	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0246		Residential	G	NW	61	57	61	58	62	58	62	59	0.3	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0247		Residential	G	NE	60	57	60	57	61	58	61	58	0.3	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0248		Residential	G	N	58	55	58	55	59	56	59	56	0.2	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0248		Residential	1	N	60	56	60	56	61	57	61	57	0.3	0.2	0.4	0.2	60	55	NO	NO	NO	NO	NO
16	16_0249		Residential	G	NW	58	55	58	55	59	56	59	56	0.2	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0249		Residential	1	NW	59	56	59	56	60	57	60	57	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0250		Residential	G	W	59	55	59	55	60	56	60	56	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0251		Residential	G	W	59	55	59	55	60	56	60	56	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0252		Residential	G	N	58	54	58	54	58	55	59	55	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0253		Residential	G	N	59	56	60	56	60	57	61	57	0.2	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0254		Residential	G	W	58	55	59	55	59	56	60	56	0.2	0.2	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0254		Residential	1	W	60	56	60	56	61	57	61	57	0.1	0	0.1	-0.1	60	55	NO	NO	NO	NO	NO
16	16_0255		Residential	G	W	58	54	58	54	59	55	59	55	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0256		Residential	G	W	57	54	57	54	58	55	58	55	0.1	0.1	0.1	0.1	60	55	NO	NO	NO	NO	NO
16	16_0256		Residential	1	W	59	55	59	55	60	56	60	56	-0.1	-0.1	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
16	16_0257		Residential	G	W	57	53	57	53	58	54	58	54	0	0	0.1	0	60	55	NO	NO	NO	NO	NO
16	16_0257		Residential	1	W	59	55	59	55	60	56	60	56	-0.1	-0.2	-0.1	-0.3	60	55	NO	NO	NO	NO	NO
16	16_0258		Residential	G	N	56	52	56	52	57	53	57	53	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0258		Residential	1	W	58	54	58	54	59	55	59	55	-0.3	-0.3	-0.3	-0.4	60	55	NO	NO	NO	NO	NO
16	16_0259		Residential	G	SW	56	52	56	52	57	53	57	53	0	-0.1	0.1	0	60	55	NO	NO	NO	NO	NO
16	16_0259		Residential	1	SW	58	54	58	54	59	55	59	55	-0.2	-0.2	-0.2	-0.3	60	55	NO	NO	NO	NO	NO
16	16_0260		Residential	G	N	55	51	55	51	56	52	56	52	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0260		Residential	1	W	55	51	55	52	56	52	56	53	0.1	0.1	0.1	0.1	60	55	NO	NO	NO	NO	NO
16	16_0261		Residential	G	W	56	52	55	52	56	53	56	52	-0.1	-0.1	0	-0.2	60	55	NO	NO	NO	NO	NO
16	16_0262		Residential	G	W	56	52	55	51	56	52	56	52	-0.3	-0.3	-0.2	-0.3	60	55	NO	NO	NO	NO	NO
16	16_0263		Residential	G	NE	57	53	57																

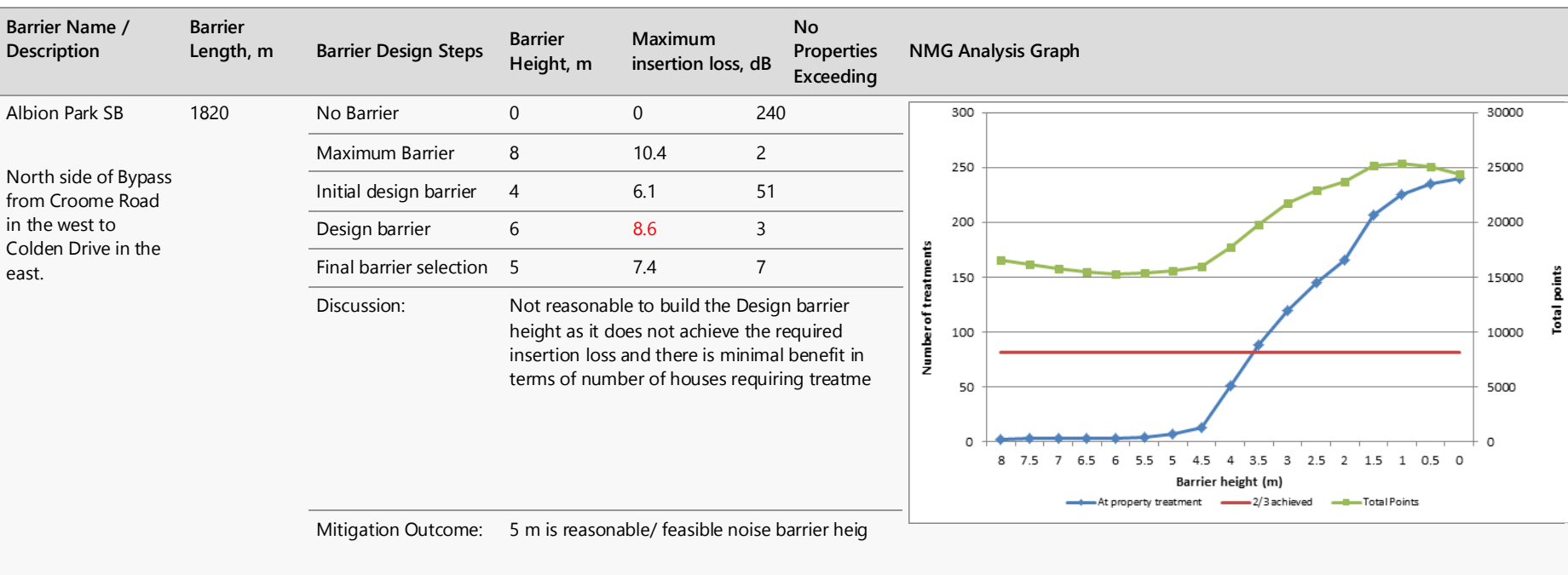
NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
16	16_0286		Residential	G	NW	58	54	58	54	59	55	59	55	0	-0.1	0.1	-0.1	60	55	NO	NO	NO	NO	NO
16	16_0286		Residential	1	NW	60	57	60	57	61	58	61	58	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0287		Residential	G	NW	58	55	58	55	59	56	59	56	0	0	0.1	0	60	55	NO	NO	NO	NO	NO
16	16_0288		Residential	G	N	57	53	57	53	58	54	58	54	0.3	0.2	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0288		Residential	1	W	61	57	61	57	62	58	62	58	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0289		Residential	G	N	59	55	59	55	60	56	60	56	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0290		Residential	G	W	60	56	60	56	61	57	61	58	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0290		Residential	1	W	63	59	63	59	64	60	64	60	0.1	0	0.2	0	60	55	NO	YES	NO	NO	YES
16	16_0291		Residential	G	W	60	57	60	57	61	58	61	58	0.1	0	0.1	0	60	55	NO	NO	NO	NO	NO
16	16_0292		Residential	G	W	59	56	60	56	60	57	61	57	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0292		Residential	1	W	62	58	62	58	63	59	63	59	0.1	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0293		Residential	G	W	60	56	60	56	61	57	61	57	0	-0.1	0.1	-0.1	60	55	NO	NO	NO	NO	NO
16	16_0293		Residential	1	W	62	58	62	58	63	59	63	59	0.1	-0.1	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0294		Residential	G	NW	67	63	66	62	68	64	67	63	-0.2	-0.3	-0.2	-0.3	60	55	YES	YES	YES	YES	YES
16	16_0295		Residential	G	SW	66	62	66	62	67	63	67	63	-0.3	-0.4	-0.3	-0.4	60	55	YES	YES	YES	YES	YES
16	16_0296		Residential	G	W	67	63	67	63	68	64	68	64	-0.3	-0.3	-0.2	-0.4	60	55	YES	YES	YES	YES	YES
16	16_0297		Residential	G	W	66	62	66	62	67	63	67	63	-0.3	-0.3	-0.3	-0.4	60	55	YES	YES	YES	YES	YES
16	16_0297		Residential	1	W	68	65	68	64	69	66	69	65	-0.1	-0.2	-0.1	-0.2	60	55	YES	YES	YES	YES	YES
16	16_0298		Residential	G	W	65	61	64	61	66	62	66	62	-0.3	-0.4	-0.2	-0.4	60	55	YES	YES	YES	YES	YES
16	16_0299		Residential	G	W	64	61	64	60	65	62	65	61	-0.4	-0.4	-0.2	-0.4	60	55	YES	YES	YES	YES	YES
16	16_0300		Residential	G	W	62	59	62	58	63	60	63	59	-0.1	-0.2	0	-0.2	60	55	NO	NO	NO	NO	NO
16	16_0301		Residential	G	W	64	60	64	60	65	61	65	61	-0.1	-0.1	0	-0.1	60	55	YES	YES	NO	YES	YES
16	16_0302		Residential	G	W	63	60	64	60	64	61	65	61	0.1	0.1	0.2	0.1	60	55	YES	YES	NO	YES	YES
16	16_0303		Residential	G	W	63	59	63	59	64	60	64	60	0.4	0.3	0.4	0.3	60	55	NO	YES	NO	YES	YES
16	16_0304		Residential	G	W	64	60	64	60	65	61	65	61	0.3	0.3	0.4	0.3	60	55	YES	YES	YES	YES	YES
16	16_0305		Residential	G	W	62	58	62	58	63	59	63	59	0.4	0.3	0.4	0.3	60	55	NO	NO	NO	NO	NO
16	16_0306		Residential	G	W	61	57	61	57	62	58	62	58	0.3	0.1	0.3	0.2	60	55	NO	NO	NO	NO	NO
16	16_0307		Residential	G	N	59	56	59	56	60	57	60	57	0	-0.1	0	-0.1	60	55	NO	NO	NO	NO	NO
16	16_0308		Residential	G	W	59	55	59	56	60	57	60	57	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0309		Residential	G	N	59	55	59	55	60	56	60	56	0	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0310		Residential	G	W	59	55	59	56	60	57	60	57	0.1	0.1	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0311		Residential	G	N	57	53	57	54	58	54	58	55	0.2	0.1	0.2	0.2	60	55	NO	NO	NO	NO	NO
16	16_0312		Residential	G	NE	56	52	56	52	57	53	57	53	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0313		Residential	G	W	57	53	57	53	58	54	58	54	0.1	0.1	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0314		Residential	G	W	57	54	58	54	58	55	59	55	0.1	0.2	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0315		Residential	G	W	58	54	58	54	58	55	59	55	0.1	0.1	0.3	0.1	60	55	NO	NO	NO	NO	NO
16	16_0316		Residential	G	W	58	54	58	54	59	55	59	55	0.2	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0317		Residential	G	W	57	54	58	54	58	55	59	55	0.1	0	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0318		Residential	G	NW	57	53	57	53	58	54	58	54	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0318		Residential	1	NW	60	56	60	56	61	57	61	57	0.1	0.1	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0319		Residential	G	NW	59	55	59	55	59	56	60	56	0.1	0.1	0.2	0.1	60	55	NO	NO	NO	NO	NO
16	16_0319		Residential	1	NW	60	57	60	57	61	58	62	58	0.1	0.1	0.3	0	60	55	NO	NO	NO	NO	NO
16	16_0320		Residential	G	NW	59	56	59	56	60	57	61	57	0	0	0.2	0	60	55	NO	NO	NO	NO	NO
16	16_0321		Residential	G	NW	57	53	57	53	58	54	58	54	0.1	0.1	0.2	0.2							

APPENDIX E Noise barrier analysis



Barrier Name / Description	Barrier Length, m	Barrier Design Steps	Barrier Height, m	Maximum insertion loss, dB	No Properties Exceeding	NMG Analysis Graph	
Yallah NB West side of new Bypass from river in the south to where Bypass goes into cutting	550	No Barrier	0	0	17		
		Maximum Barrier	8	8.3	15		
		Initial design barrier	4	4.4	16		
		Design barrier	4	4.4	16		
		Final barrier selection	N/A	-	-		
		Discussion:	Barriers do not achieve required insertion loss.				
		Mitigation Outcome:	Barrier not a reasonable mitigation solution.				
Yallah SB	-	Discussion:	RMS advised barrier not feasible to construct due to flooding.			Not required	
East side of Bypass between Bypass and Illawarra Hwy, near Croome Lane		Mitigation Outcome:	Barrier not a feasible mitigation solution.				





APPENDIX F Predicted road traffic noise levels (with mitigation)

Albion Park Rail Bypass

Traffic noise assessment

With mitigation scenario

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
				dB(A)	dB(A)			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day			Night	≥ 65dB LAeq,15h	
1	1_0001		Residential	G	S	59	54	57	53	59	54	58	53	-1.3	-0.6	-1.2	-1	60	55	NO	NO	NO	NO	NO
1	1_0002		Residential	G	S	59	55	58	53	59	55	58	54	-1.5	-1.4	-1.4	-1.3	60	55	NO	NO	NO	NO	NO
1	1_0003		Residential	G	W	61	57	59	55	61	57	60	55	-1.6	-1.8	-1.6	-1.4	60	55	NO	NO	NO	NO	NO
1	1_0004		Residential	G	S	59	55	57	53	59	54	57	53	-1.7	-2	-1.6	-1.5	60	55	NO	NO	NO	NO	NO
1	1_0005		Residential	G	SW	60	56	59	54	61	56	59	55	-1.6	-1.3	-1.6	-1.5	60	55	NO	NO	NO	NO	NO
1	1_0006		Residential	G	SW	62	58	60	56	62	58	60	56	-1.7	-1.9	-1.6	-1.5	60	55	NO	NO	NO	NO	NO
1	1_0007		Residential	G	SW	60	56	59	54	61	56	59	55	-1.6	-1.4	-1.6	-1.4	60	55	NO	NO	NO	NO	NO
1	1_0008		Residential	G	SW	62	58	60	56	62	57	60	56	-1.8	-2	-1.8	-1.6	60	55	NO	NO	NO	NO	NO
1	1_0009		Residential	G	NW	58	54	57	53	59	54	58	53	-1.1	-0.9	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0009		Residential	1	SW	60	56	59	55	61	56	59	55	-1.2	-0.9	-1.3	-1	60	55	NO	NO	NO	NO	NO
1	1_0010		Residential	G	SW	62	58	61	56	63	58	61	57	-1.7	-1.2	-1.6	-1.5	60	55	NO	NO	NO	NO	NO
1	1_0010		Residential	1	SW	63	59	62	57	64	59	62	58	-1.6	-1.2	-1.5	-1.4	60	55	NO	NO	NO	NO	NO
1	1_0011		Residential	G	W	59	55	58	53	59	55	58	54	-1.1	-1.3	-1.2	-0.9	60	55	NO	NO	NO	NO	NO
1	1_0012		Residential	G	SW	63	59	61	57	63	59	62	57	-1.7	-1.7	-1.6	-1.5	60	55	NO	NO	NO	NO	NO
1	1_0013		Residential	G	W	59	55	57	53	59	54	58	53	-1.3	-1.6	-1.3	-1	60	55	NO	NO	NO	NO	NO
1	1_0013		Residential	1	S	61	57	60	55	61	57	60	56	-1.2	-1.2	-1.2	-1	60	55	NO	NO	NO	NO	NO
1	1_0014		Residential	G	SW	63	59	62	57	64	59	62	58	-1.6	-1.2	-1.5	-1.4	60	55	NO	NO	NO	NO	NO
1	1_0014		Residential	1	SW	64	60	63	58	64	60	63	59	-1.5	-1.3	-1.5	-1.4	60	55	NO	NO	NO	NO	YES
1	1_0015		Residential	G	NW	57	53	56	52	58	53	57	52	-1.1	-0.8	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0015		Residential	1	SE	60	56	59	54	61	56	59	54	-1.6	-1.5	-1.6	-1.4	60	55	NO	NO	NO	NO	NO
1	1_0016		Residential	G	SW	64	60	62	58	64	60	63	58	-1.7	-1.6	-1.6	-1.5	60	55	NO	NO	NO	NO	NO
1	1_0017		Residential	G	SW	62	58	60	56	62	57	61	56	-1.4	-1.7	-1.4	-1.2	60	55	NO	NO	NO	NO	NO
1	1_0017		Residential	1	SW	63	59	62	57	64	59	62	58	-1.4	-1.1	-1.3	-1.1	60	55	NO	NO	NO	NO	NO
1	1_0018		Residential	G	W	62	58	61	57	62	58	62	57	-0.4	-0.7	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0018		Residential	1	W	63	59	63	58	64	59	63	59	-0.5	-0.6	-0.5	-0.4	60	55	NO	NO	NO	NO	NO
1	1_0019		Residential	G	W	62	58	62	57	63	58	62	58	-0.5	-0.3	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0020		Residential	G	S	62	58	61	56	62	58	61	57	-0.9	-1.3	-0.9	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0020		Residential	1	W	62	58	62	57	63	58	62	58	-0.6	-0.3	-0.6	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0021		Residential	G	S	61	57	60	56	62	57	61	56	-1	-0.7	-1	-0.9	60	55	NO	NO	NO	NO	NO
1	1_0021		Residential	1	S	62	58	61	57	63	58	62	57	-1	-0.8	-1	-0.9	60	55	NO	NO	NO	NO	NO
1	1_0022		Residential	G	S	61	57	60	55	61	57	60	56	-1.2	-1.2	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0022		Residential	1	S	62	58	61	56	62	58	61	57	-1.2	-1.2	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0023		Residential	G	S	61	57	60	56	62	57	60	56	-1.2	-1	-1.2	-1.1	60	55	NO	NO	NO	NO	NO
1	1_0023		Residential	1	S	62	58	61	56	63	58	61	57	-1.3	-1.1	-1.2	-1.2	60	55	NO	NO	NO	NO	NO
1	1_0024		Residential	G	W	68	63	67	63	68	64	68	63	-0.2	0.3	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0025		Residential	G	S	60	56	59	55	61	56	60	55	-1.2	-0.8	-1.2	-1.1	60	55	NO	NO	NO	NO	NO
1	1_0025		Residential	1	S	61	57	60	56	62	57	61	56	-1.1	-0.8	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0026		Residential	G	W	66	62	66	62	67	62	67	62	-0.1	0.2	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0027		Residential	G	S	61	57	59	55	61	56	60	55	-1.3	-1.7	-1.3	-1.1	60	55	NO	NO	NO	NO	NO
1	1_0027		Residential	1	S	61	57	60	56	62	57	61	56	-1.2	-0.8	-1.1	-1.1	60	55	NO	NO	NO	NO	NO
1	1_0028		Residential	G	W	64	60	64	60	65	60	65	60	-0.2	0.1	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0029		Residential	G	S	61	56	59	55	61	56	60	55	-1.4	-0.8	-1.3	-1.2	60	55	NO	NO	NO	NO	NO
1	1_0029		Residential	1	S	62	57	60	56	62	57	61	56	-1.2	-0.7	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0030		Residential	G	W	64	60	64	59	65	60	64	60	-0.2	-0.1	-0.1	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0031		Residential	G	S	60	56	59	54	60	56	59	55	-1.3	-1.4	-1.3	-1.1	60	55	NO	NO	NO	NO	NO
1	1_0031		Residential	1	S	62	57	60	56	62	57	61	56	-1.2	-0.6	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0032		Residential	G	SW	63	59	62	57	63	59	62	58	-0.7	-1.1	-0.7	-0.7	60	55	NO	NO	NO	NO	NO

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
				dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h			
1	1_0047		Residential	G	S	61	57	60	55	62	57	60	56	-1.5	-1.3	-1.4	-1.3	60	55	NO	NO	NO	NO	NO
1	1_0047		Residential	1	S	62	58	61	56	62	58	61	57	-1.4	-1.3	-1.3	-1.2	60	55	NO	NO	NO	NO	NO
1	1_0048		Residential	G	S	61	57	60	55	62	57	60	56	-1.6	-1.2	-1.5	-1.3	60	55	NO	NO	NO	NO	NO
1	1_0049		Residential	G	S	61	57	60	55	61	57	60	56	-1.3	-1.4	-1.2	-1.1	60	55	NO	NO	NO	NO	NO
1	1_0050		Residential	G	S	60	56	58	53	60	55	58	54	-1.7	-2.1	-1.6	-1.5	60	55	NO	NO	NO	NO	NO
1	1_0051		Residential	G	SW	60	56	59	54	61	56	59	55	-1.4	-1.1	-1.4	-1.2	60	55	NO	NO	NO	NO	NO
1	1_0052		Residential	G	SW	58	54	56	52	58	54	57	52	-1.7	-1.6	-1.6	-1.4	60	55	NO	NO	NO	NO	NO
1	1_0053		Residential	G	SE	58	54	56	52	58	54	56	52	-2	-1.9	-1.9	-1.7	60	55	NO	NO	NO	NO	NO
1	1_0054		Residential	G	SE	36	32	35	30	36	32	35	30	-1.5	-1.6	-1.4	-1.3	48	44	NO	NO	NO	NO	NO
1	1_0054		Residential	1	SW	36	32	34	30	36	32	35	30	-1.5	-1.6	-1.4	-1.2	48	44	NO	NO	NO	NO	NO
1	1_0055		Residential	G	NW	55	51	55	50	55	51	55	50	-0.3	-0.5	-0.3	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0056		Residential	G	W	69	65	69	64	70	65	69	65	-0.1	-0.3	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0056		Residential	1	W	70	66	70	66	71	66	71	66	-0.1	0	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0057		Residential	G	W	70	66	70	65	71	66	70	66	-0.1	-0.3	-0.1	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0058		Residential	G	W	64	60	64	59	65	60	65	60	-0.1	-0.1	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0059		Residential	G	S	59	55	59	54	60	55	59	55	-0.6	-0.3	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
1	1_0059		Residential	1	S	62	58	61	56	62	58	61	57	-0.7	-1.1	-0.7	-0.7	60	55	NO	NO	NO	NO	NO
1	1_0060		Residential	G	N	61	57	61	57	62	57	62	57	-0.2	0.1	-0.3	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0061		Residential	G	S	57	53	57	53	58	53	58	53	-0.2	0.1	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
1	1_0061		Residential	1	S	60	56	59	55	60	56	60	55	-0.6	-0.8	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
1	1_0062		Residential	G	S	60	56	60	56	61	56	61	56	-0.4	0	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0062		Residential	1	S	62	58	61	57	62	58	62	57	-0.6	-0.8	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
1	1_0063		Residential	G	S	60	56	60	55	61	56	60	56	-0.6	-0.4	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
1	1_0063		Residential	1	S	62	58	61	56	62	58	61	57	-0.8	-1.2	-0.8	-0.7	60	55	NO	NO	NO	NO	NO
1	1_0064		Residential	G	S	55	51	54	50	55	51	55	50	-0.6	-0.9	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0064		Residential	1	S	59	54	58	53	59	54	58	54	-0.6	-0.1	-0.6	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0065		Residential	G	S	61	57	60	55	61	57	60	56	-0.8	-1.2	-0.9	-0.7	60	55	NO	NO	NO	NO	NO
1	1_0066		Residential	G	S	61	57	60	55	61	56	60	56	-0.9	-1.3	-0.9	-0.7	60	55	NO	NO	NO	NO	NO
1	1_0067		Residential	G	S	58	54	58	53	59	54	58	54	-0.7	-0.4	-0.7	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0068		Residential	G	S	61	56	60	55	61	56	60	56	-1	-0.5	-0.9	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0069		Residential	G	S	60	56	58	54	60	55	59	54	-1.3	-1.6	-1.3	-1.1	60	55	NO	NO	NO	NO	NO
1	1_0069		Residential	1	S	62	57	60	56	62	57	61	56	-1.2	-0.7	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0070		Residential	G	S	58	54	57	53	59	54	58	53	-1	-0.9	-1	-0.9	60	55	NO	NO	NO	NO	NO
1	1_0071		Residential	G	S	58	53	57	52	58	53	57	52	-1.1	-0.6	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0071		Residential	1	S	60	56	59	55	61	56	60	55	-1	-0.9	-1	-0.9	60	55	NO	NO	NO	NO	NO
1	1_0072		Residential	G	E	53	49	52	48	54	49	53	48	-0.8	-0.8	-0.7	-0.6	60	55	NO	NO	NO	NO	NO
1	1_0073		Residential	G	E	54	50	53	48	54	49	53	49	-0.9	-1.3	-1	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0074		Residential	G	S	51	46	50	45	51	46	50	45	-1.1	-0.6	-1	-0.9	60	55	NO	NO	NO	NO	NO
1	1_0074		Residential	1	W	57	53	56	52	58	53	57	52	-1	-0.9	-1	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0075		Residential	G	W	55	51	54	49	56	51	54	50	-1.1	-1.1	-1.1	-1	60	55	NO	NO	NO	NO	NO
1	1_0076		Residential	G	W	56	52	55	50	57	52	55	51	-1.5	-1.4	-1.4	-1.3	60	55	NO	NO	NO	NO	NO
1	1_0077		Residential	G	W	49	45	48	43	50	45	48	44	-1.3	-1.3	-1.3	-1.3	60	55	NO	NO	NO	NO	NO
1	1_0077		Residential																					

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
				dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h			
1	1_0102		Residential	1	SW	58	53	56	52	58	53	57	52	-1.1	-0.6	-1	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0103		Residential	G	S	57	53	56	51	57	52	56	52	-1.1	-1.3	-1	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0103		Residential	1	S	57	53	56	52	58	53	57	52	-1.1	-0.7	-1	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0104		Residential	G	SW	56	52	56	51	57	52	56	51	-0.9	-0.5	-0.8	-0.6	60	55	NO	NO	NO	NO	NO
1	1_0104		Residential	1	SW	57	53	56	52	57	53	56	52	-0.9	-1	-0.9	-0.7	60	55	NO	NO	NO	NO	NO
1	1_0105		Residential	G	S	56	52	56	51	57	52	56	51	-0.7	-0.5	-0.7	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0105		Residential	1	W	57	53	56	51	57	52	56	52	-0.9	-1.2	-0.9	-0.7	60	55	NO	NO	NO	NO	NO
1	1_0106		Residential	G	S	57	53	56	52	58	53	57	52	-1.1	-0.9	-1	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0107		Residential	G	S	55	51	54	49	56	51	54	50	-1.8	-1.4	-1.8	-1.6	60	55	NO	NO	NO	NO	NO
1	1_0108		Residential	G	S	56	52	55	51	57	52	56	51	-0.9	-0.5	-0.9	-0.7	60	55	NO	NO	NO	NO	NO
1	1_0109		Residential	G	SE	54	50	52	48	54	50	53	48	-1.8	-1.8	-1.7	-1.6	60	55	NO	NO	NO	NO	NO
1	1_0109		Residential	1	SW	57	53	56	51	57	52	56	52	-0.9	-1.1	-0.8	-0.6	60	55	NO	NO	NO	NO	NO
1	1_0110		Residential	G	W	55	51	54	50	55	51	55	50	-0.6	-0.6	-0.6	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0110		Residential	1	S	57	53	56	52	57	53	57	52	-0.9	-0.7	-0.8	-0.6	60	55	NO	NO	NO	NO	NO
1	1_0111		Residential	G	SW	55	51	55	50	56	51	55	51	-0.4	-0.2	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
1	1_0112		Residential	G	W	57	52	56	51	57	52	56	52	-0.7	-0.1	-0.7	-0.5	60	55	NO	NO	NO	NO	NO
1	1_0113		Residential	G	W	57	53	56	52	57	53	57	52	-0.7	-1	-0.7	-0.6	60	55	NO	NO	NO	NO	NO
1	1_0114		Residential	G	SE	55	51	53	49	55	51	54	49	-1.8	-1.7	-1.7	-1.5	60	55	NO	NO	NO	NO	NO
1	1_0115		Residential	G	NW	54	50	54	49	54	50	54	50	-0.3	-0.4	-0.3	-0.1	60	55	NO	NO	NO	NO	NO
1	1_0115		Residential	1	SW	57	53	56	52	58	53	57	52	-1	-0.6	-0.9	-0.7	60	55	NO	NO	NO	NO	NO
1	1_0116	Echidna Children's Centre	Childcare Sleeping	G	S	57	53	56	52	58	53	57	52	-1.1	-0.7	-1	-0.9	45	-	YES	YES	NO	-	YES
1	1_0117		Residential	G	S	57	53	56	51	58	53	56	52	-1.5	-1.3	-1.4	-1.4	60	55	NO	NO	NO	NO	NO
1	1_0118		Residential	G	S	56	52	54	50	56	51	55	50	-1.3	-1.7	-1.3	-1.1	60	55	NO	NO	NO	NO	NO
1	1_0119		Residential	G	S	56	52	55	50	57	52	55	51	-1.4	-1.1	-1.4	-1.2	60	55	NO	NO	NO	NO	NO
1	1_0119		Residential	1	S	58	54	57	52	58	53	57	53	-1	-1.4	-1	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0120		Residential	G	S	57	53	56	52	58	53	57	52	-1.1	-0.9	-1.1	-0.9	60	55	NO	NO	NO	NO	NO
1	1_0120		Residential	1	S	58	54	57	52	58	54	57	53	-1.1	-1.1	-1	-0.9	60	55	NO	NO	NO	NO	NO
1	1_0121		Residential	G	S	57	53	56	52	58	53	57	52	-1.1	-0.9	-1	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0121		Residential	1	S	58	54	57	52	58	54	57	53	-1.1	-1.2	-1.1	-0.9	60	55	NO	NO	NO	NO	NO
1	1_0122		Residential	G	S	57	53	56	51	57	53	56	52	-1.1	-1.1	-1	-0.8	60	55	NO	NO	NO	NO	NO
1	1_0122		Residential	1	S	58	53	57	52	58	53	57	53	-1	-0.4	-1	-0.7	60	55	NO	NO	NO	NO	NO
2	2_0001		Residential	G	N	53	47	57	52	53	48	57	53	4.2	5.8	4.1	5.2	55	50	NO	NO	NO	NO	YES
3	3_0001		Residential	G	SE	54	48	52	47	55	49	52	48	-2.3	-0.9	-2.4	-1.1	55	50	NO	NO	NO	NO	NO
3	3_0001		Residential	1	SW	58	52	54	49	59	53	55	50	-3.8	-2.6	-4	-2.8	55	50	NO	NO	NO	NO	NO
3	3_0002		Residential	G	SE	57	51	53	49	57	51	54	49	-3.5	-1.9	-3.7	-2.2	55	50	NO	NO	NO	NO	NO
3	3_0003		Residential	G	SE	57	51	53	49	57	51	54	49	-3.7	-2.1	-3.9	-2.4	55	50	NO	NO	NO	NO	NO
3	3_0004		Residential	G	SE	57	51	53	49	58	52	54	49	-3.9	-2.3	-4.1	-2.6	55	50	NO	NO	NO	NO	NO
3	3_0005		Residential	G	SE	57	51	53	48	58	52	53	49	-4.1	-2.5	-4.3	-2.7	55	50	NO	NO	NO	NO	NO
3	3_0006		Residential	G	SE	57	50	53	48	57	51	53	49	-3.9	-2.2	-4.1	-2.4	55	50	NO	NO	NO	NO	NO
3	3_0007		Residential	G	SE	57	51	53	49	58	52	54	49	-4.2	-2.6	-4.4	-2.8	55	50	NO	NO	NO	NO	NO
3	3_0008		Residential	G	SE	57	51	53	48	58	52	53	49	-4.2	-2.6	-4.4	-2.8	55	50	NO	NO	NO	NO	NO
3	3_0009		Residential	G	SE	57	51	53	48	58	51	53	48	-4.3	-2.6	-4.6	-3	55	50	NO	NO	NO	NO	NO
3	3_0010																							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
				dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h			
3	3_0041		Residential	G	S	53	47	52	48	54	48	53	48	-0.9	0.6	-1.1	0.3	55	50	NO	NO	NO	NO	NO
3	3_0042		Residential	G	S	53	47	52	48	54	48	53	48	-0.9	0.6	-1.1	0.3	55	50	NO	NO	NO	NO	NO
3	3_0043		Residential	G	SW	54	48	52	47	54	48	53	48	-1.4	-0.1	-1.5	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0044		Residential	G	W	54	49	52	47	55	49	52	48	-2.4	-1.5	-2.5	-1.6	55	50	NO	NO	NO	NO	NO
3	3_0045		Residential	G	W	53	48	52	47	54	48	52	47	-1.6	-0.6	-1.6	-0.7	55	50	NO	NO	NO	NO	NO
3	3_0046		Residential	G	W	54	48	51	47	55	49	52	47	-2.6	-1.6	-2.8	-1.7	55	50	NO	NO	NO	NO	NO
3	3_0047		Residential	G	W	54	48	52	47	55	49	52	47	-2.3	-1.4	-2.5	-1.5	55	50	NO	NO	NO	NO	NO
3	3_0048		Residential	G	S	51	46	51	47	52	46	52	47	-0.2	0.9	-0.3	0.8	55	50	NO	NO	NO	NO	NO
3	3_0049		Residential	G	S	52	46	51	47	53	47	52	47	-0.7	0.5	-0.9	0.3	55	50	NO	NO	NO	NO	NO
3	3_0050		Residential	G	W	54	48	51	47	54	48	52	47	-2.2	-1.3	-2.4	-1.4	55	50	NO	NO	NO	NO	NO
3	3_0051		Residential	G	S	51	45	51	46	52	46	51	47	-0.1	0.8	-0.2	0.7	55	50	NO	NO	NO	NO	NO
3	3_0052		Residential	G	S	52	46	51	47	52	46	52	47	-0.4	0.7	-0.5	0.6	55	50	NO	NO	NO	NO	NO
3	3_0053		Residential	G	S	52	46	51	46	52	46	51	47	-0.5	0.7	-0.6	0.5	55	50	NO	NO	NO	NO	NO
3	3_0054		Residential	G	SW	53	47	52	47	53	47	52	47	-1	0.1	-1.1	0	55	50	NO	NO	NO	NO	NO
3	3_0055		Residential	G	SW	54	48	52	47	54	49	52	48	-1.8	-0.8	-1.9	-1	55	50	NO	NO	NO	NO	NO
3	3_0056		Residential	G	SE	52	46	52	47	53	47	52	47	-0.3	0.9	-0.5	0.7	55	50	NO	NO	NO	NO	NO
3	3_0057		Residential	G	S	52	46	52	47	53	47	52	47	-0.5	0.8	-0.7	0.6	55	50	NO	NO	NO	NO	NO
3	3_0058		Residential	G	S	52	46	52	47	53	47	52	47	-0.4	0.9	-0.6	0.7	55	50	NO	NO	NO	NO	NO
3	3_0059		Residential	G	S	52	46	51	47	52	46	52	47	-0.5	0.8	-0.6	0.6	55	50	NO	NO	NO	NO	NO
3	3_0060		Residential	G	S	51	46	51	47	52	46	52	47	-0.1	1.1	-0.3	0.9	55	50	NO	NO	NO	NO	NO
3	3_0061		Residential	G	S	51	45	51	46	52	46	51	47	0	1.1	-0.2	1	55	50	NO	NO	NO	NO	NO
3	3_0062		Residential	G	SE	52	46	51	46	52	47	51	47	-0.9	0.2	-1	0.1	55	50	NO	NO	NO	NO	NO
3	3_0063		Residential	G	S	56	50	54	49	57	51	54	49	-2.8	-1.2	-3.1	-1.5	55	50	NO	NO	NO	NO	NO
3	3_0064		Residential	G	S	56	50	54	49	57	51	54	49	-2.6	-1.1	-2.9	-1.4	55	50	NO	NO	NO	NO	NO
3	3_0065		Residential	G	S	55	49	53	49	56	50	54	49	-1.8	-0.3	-2	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0066		Residential	G	S	56	49	53	49	56	50	54	49	-2.1	-0.5	-2.4	-0.9	55	50	NO	NO	NO	NO	NO
3	3_0067		Residential	G	S	56	50	54	49	57	50	54	49	-2.3	-0.7	-2.6	-1	55	50	NO	NO	NO	NO	NO
3	3_0068		Residential	G	S	56	50	54	49	56	50	54	49	-2.2	-0.7	-2.5	-1	55	50	NO	NO	NO	NO	NO
3	3_0069		Residential	G	S	56	50	54	49	56	50	54	49	-2.2	-0.6	-2.5	-0.9	55	50	NO	NO	NO	NO	NO
3	3_0070		Residential	G	S	56	50	54	49	56	50	54	49	-2.2	-0.5	-2.4	-0.9	55	50	NO	NO	NO	NO	NO
3	3_0071		Residential	G	S	56	50	54	49	56	50	54	49	-2.1	-0.4	-2.3	-0.8	55	50	NO	NO	NO	NO	NO
3	3_0072		Residential	G	S	56	50	54	49	56	50	54	49	-2.1	-0.4	-2.3	-0.9	55	50	NO	NO	NO	NO	NO
3	3_0073		Residential	G	SE	53	47	52	48	54	48	53	48	-0.7	0.7	-0.9	0.5	55	50	NO	NO	NO	NO	NO
3	3_0074		Residential	G	S	54	48	53	48	54	48	53	49	-1	0.5	-1.2	0.2	55	50	NO	NO	NO	NO	NO
3	3_0075		Residential	G	S	54	48	53	48	54	48	53	49	-0.8	0.7	-1	0.3	55	50	NO	NO	NO	NO	NO
3	3_0076		Residential	G	S	53	47	53	48	54	48	53	49	-0.6	0.9	-0.8	0.6	55	50	NO	NO	NO	NO	NO
3	3_0077		Residential	G	S	53	47	53	48	54	48	53	49	-0.6	0.9	-0.8	0.6	55	50	NO	NO	NO	NO	NO
3	3_0078		Residential	G	S	53	47	53	48	54	48	53	49	-0.5	1	-0.8	0.7	55	50	NO	NO	NO	NO	NO
3	3_0079		Residential	G	S	53	47	53	48	54	48	53	49	-0.6	1	-0.8	0.8	55	50	NO	NO	NO	NO	NO
3	3_0080		Residential	G	S	53	47	52	48	54	48	53	48	-0.6	0.9	-0.8	0.7	55	50	NO	NO	NO	NO	NO
3	3_0081		Residential	G	S	55	49	53	49	56	50	54	49	-1.9	-0.3	-2.1	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0082		Residential	G	S	56	50	54	49	57	50	54	50	-2	-0.4	-2.3	-0.7	55	50	NO	NO	NO	NO	NO
3	3_0083		Residential	G	S	55																		

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
				dB(A)	dB(A)			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day			Night	≥ 65dB LAeq,15h	
3	3_0115		Residential	G	S	55	49	54	49	56	50	54	50	-1.4	0.3	-1.7	-0.1	55	50	NO	NO	NO	NO	NO
3	3_0116		Residential	G	S	55	48	53	49	55	49	54	49	-1.1	0.5	-1.4	0.1	55	50	NO	NO	NO	NO	NO
3	3_0117		Residential	G	S	55	49	54	49	56	50	54	49	-1.5	0.1	-1.8	-0.2	55	50	NO	NO	NO	NO	NO
3	3_0118		Residential	G	S	55	49	54	49	56	50	54	49	-1.4	0.1	-1.7	-0.3	55	50	NO	NO	NO	NO	NO
3	3_0119		Residential	G	S	55	48	54	49	56	49	54	49	-1.3	0.3	-1.6	-0.1	55	50	NO	NO	NO	NO	NO
3	3_0120		Residential	G	S	55	49	54	49	56	50	54	49	-1.5	0	-1.8	-0.2	55	50	NO	NO	NO	NO	NO
3	3_0121		Residential	G	S	54	48	53	48	55	49	53	49	-1.3	0.2	-1.6	0	55	50	NO	NO	NO	NO	NO
3	3_0122		Residential	G	S	54	47	53	48	55	48	53	49	-1	0.8	-1.2	0.4	55	50	NO	NO	NO	NO	NO
3	3_0122		Residential	1	S	57	50	54	49	57	51	55	50	-2.1	-0.6	-2.3	-0.9	55	50	NO	NO	NO	NO	NO
3	3_0123		Residential	G	S	51	44	51	47	52	45	52	47	0.6	2.4	0.3	2	55	50	NO	NO	NO	NO	NO
3	3_0123		Residential	1	S	56	49	54	49	57	50	54	49	-2.2	-0.7	-2.4	-1	55	50	NO	NO	NO	NO	NO
3	3_0124		Residential	G	S	55	48	54	49	55	49	54	49	-0.9	0.6	-1.2	0.3	55	50	NO	NO	NO	NO	NO
3	3_0125		Residential	G	S	50	44	51	46	51	44	52	47	1	2.6	0.7	2.3	55	50	NO	NO	NO	NO	NO
3	3_0125		Residential	1	S	54	47	53	48	54	48	53	48	-0.7	0.8	-0.9	0.5	55	50	NO	NO	NO	NO	NO
3	3_0126		Residential	G	N	52	46	51	46	52	46	51	46	-0.7	0.2	-0.9	0	55	50	NO	NO	NO	NO	NO
3	3_0127		Residential	G	W	52	46	51	46	53	46	52	46	-0.9	0.3	-1.2	0	55	50	NO	NO	NO	NO	NO
3	3_0128		Residential	G	W	52	46	51	46	53	47	52	46	-1	0.2	-1.3	-0.1	55	50	NO	NO	NO	NO	NO
3	3_0129		Residential	G	E	54	48	52	47	55	49	52	47	-2.6	-1.5	-2.7	-1.7	55	50	NO	NO	NO	NO	NO
3	3_0130		Residential	G	E	54	48	52	47	55	49	52	47	-2.3	-1.2	-2.5	-1.4	55	50	NO	NO	NO	NO	NO
3	3_0131		Residential	G	E	54	48	52	47	54	49	52	48	-2.1	-0.9	-2.3	-1.1	55	50	NO	NO	NO	NO	NO
3	3_0132		Residential	G	S	52	46	52	47	53	46	52	48	-0.2	1.5	-0.5	1.2	55	50	NO	NO	NO	NO	NO
3	3_0132		Residential	1	S	55	49	53	48	56	50	54	49	-2	-0.5	-2.3	-0.8	55	50	NO	NO	NO	NO	NO
3	3_0133		Residential	G	S	53	47	52	48	54	48	53	48	-0.7	0.9	-1	0.5	55	50	NO	NO	NO	NO	NO
3	3_0134		Residential	G	S	53	47	52	48	54	47	53	48	-0.4	1.1	-0.7	0.8	55	50	NO	NO	NO	NO	NO
3	3_0135		Residential	G	S	52	46	52	47	53	47	52	48	-0.2	1.3	-0.5	1	55	50	NO	NO	NO	NO	NO
3	3_0136		Residential	G	S	53	47	53	48	54	48	53	48	-0.6	1	-0.9	0.6	55	50	NO	NO	NO	NO	NO
3	3_0137		Residential	G	S	53	47	53	48	54	48	53	48	-0.7	0.8	-0.9	0.5	55	50	NO	NO	NO	NO	NO
3	3_0138		Residential	G	S	53	47	53	48	54	48	53	48	-0.5	1.1	-0.7	0.8	55	50	NO	NO	NO	NO	NO
3	3_0139		Residential	G	S	53	46	53	48	54	47	53	48	-0.2	1.5	-0.5	1.2	55	50	NO	NO	NO	NO	NO
3	3_0139		Residential	1	S	55	49	54	49	56	50	54	49	-1.3	0.1	-1.6	-0.2	55	50	NO	NO	NO	NO	NO
3	3_0140		Residential	G	S	53	47	53	48	54	48	53	48	-0.5	1	-0.8	0.7	55	50	NO	NO	NO	NO	NO
3	3_0141		Residential	G	S	53	47	53	48	54	48	53	48	-0.3	1.2	-0.6	0.9	55	50	NO	NO	NO	NO	NO
3	3_0142		Residential	G	S	53	47	53	48	54	47	53	48	-0.1	1.4	-0.4	1.1	55	50	NO	NO	NO	NO	NO
3	3_0143		Residential	G	S	53	46	53	48	53	47	53	48	0	1.5	-0.3	1.2	55	50	NO	NO	NO	NO	NO
3	3_0144		Residential	G	S	53	46	53	48	53	47	53	48	0.1	1.5	-0.2	1.2	55	50	NO	NO	NO	NO	NO
3	3_0145		Residential	G	W	51	45	51	46	52	45	52	47	0.3	1.6	0	1.3	55	50	NO	NO	NO	NO	NO
3	3_0146		Residential	G	S	52	46	52	47	53	46	53	48	0.3	1.8	0	1.5	55	50	NO	NO	NO	NO	NO
3	3_0147		Residential	G	N	52	46	51	46	52	46	51	46	-0.7	0.3	-0.9	0.1	55	50	NO	NO	NO	NO	NO
3	3_0148		Residential	G	E	51	45	51	46	51	45	52	47	0.3	1.7	0.2	1.4	55	50	NO	NO	NO	NO	NO
3	3_0149		Residential	G	W	51	45	51	46	52	46	51	46	-0.5	0.6	-0.8	0.3	55	50	NO	NO	NO	NO	NO
3	3_0150		Residential	G	W	51	45	51	46	52	45	51	46	-0.4	0.8	-0.6	0.5	55	50	NO	NO	NO	NO	NO
3	3_0151		Residential	G	N	52	46	51	46	53	47	52	46	-1.1	-0.3	-1.4	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0152		Residential	G	S	50	44	50	45	51	45	51	46	0.1	1.5	-0.2	1.2	55	50	NO	NO	NO	NO	NO
3	3_0153		Residential	G	N	52	46	51	46	52	46													

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
3	3_0183		Residential	G	N	52	46	50	45	53	47	51	45	-1.6	-0.9	-1.8	-1.1	55	50	NO	NO	NO	NO	NO	
3	3_0184		Residential	G	N	52	46	51	46	53	47	51	46	-1.5	-0.6	-1.6	-0.9	55	50	NO	NO	NO	NO	NO	
3	3_0185		Residential	G	N	52	46	51	46	53	47	52	46	-1.2	-0.5	-1.4	-0.6	55	50	NO	NO	NO	NO	NO	
3	3_0186		Residential	G	N	52	46	51	46	53	47	52	46	-1.2	-0.4	-1.4	-0.6	55	50	NO	NO	NO	NO	NO	
3	3_0187		Residential	G	S	57	50	54	49	58	51	54	49	-3.1	-1.5	-3.4	-1.9	55	50	NO	NO	NO	NO	NO	
3	3_0188		Residential	G	S	55	49	52	48	56	50	53	48	-2.9	-1.2	-3.2	-1.6	55	50	NO	NO	NO	NO	NO	
3	3_0188		Residential	1	S	58	51	55	50	59	52	55	50	-3.2	-1.6	-3.5	-1.9	55	50	NO	NO	NO	NO	NO	
3	3_0189		Residential	G	S	56	50	54	49	57	51	54	49	-2.9	-1.2	-3.2	-1.6	55	50	NO	NO	NO	NO	NO	
3	3_0190		Residential	G	S	55	49	53	48	56	49	53	48	-2.4	-0.7	-2.7	-1.1	55	50	NO	NO	NO	NO	NO	
3	3_0191		Residential	G	S	57	50	54	49	58	51	54	50	-2.8	-1.1	-3.1	-1.5	55	50	NO	NO	NO	NO	NO	
3	3_0192		Residential	G	S	56	49	54	49	57	50	54	49	-2.3	-0.6	-2.6	-0.9	55	50	NO	NO	NO	NO	NO	
3	3_0193		Residential	G	S	56	50	53	48	57	50	54	49	-2.7	-1.1	-3	-1.5	55	50	NO	NO	NO	NO	NO	
3	3_0194		Residential	G	S	57	50	55	50	57	51	55	50	-1.8	-0.2	-2.1	-0.6	55	50	NO	NO	NO	NO	NO	
3	3_0194		Residential	1	W	57	51	57	52	58	51	57	52	-0.6	0.9	-0.8	0.5	55	50	NO	NO	NO	NO	YES	
3	3_0195		Residential	G	W	56	49	56	51	57	50	56	51	-0.1	1.2	-0.5	0.8	55	50	NO	NO	NO	NO	YES	
3	3_0196		Residential	G	S	51	45	52	47	52	45	52	47	0.4	2.1	0.1	1.7	55	50	NO	NO	NO	NO	NO	
3	3_0196		Residential	1	W	54	48	54	49	55	49	55	49	-0.4	1.1	-0.6	0.7	55	50	NO	NO	NO	NO	NO	
3	3_0197		Residential	G	S	52	46	52	48	53	46	53	48	0.5	2	0.2	1.7	55	50	NO	NO	NO	NO	NO	
3	3_0198		Residential	G	N	53	47	53	47	54	47	53	48	-0.3	0.7	-0.5	0.4	55	50	NO	NO	NO	NO	NO	
3	3_0199		Residential	G	S	52	46	53	48	53	47	53	48	0.7	2.1	0.4	1.7	55	50	NO	NO	NO	NO	NO	
3	3_0200		Residential	G	N	53	47	53	48	54	48	54	48	0	1.1	-0.2	0.8	55	50	NO	NO	NO	NO	NO	
3	3_0201		Residential	G	S	53	46	53	48	54	47	54	49	0.4	1.9	0.1	1.6	55	50	NO	NO	NO	NO	NO	
3	3_0202		Residential	G	S	54	47	54	49	54	48	54	49	0.3	1.7	0	1.4	55	50	NO	NO	NO	NO	NO	
3	3_0203		Residential	G	W	54	48	55	49	55	49	55	50	0.3	1.6	0	1.4	55	50	NO	NO	NO	NO	NO	
3	3_0204		Residential	G	SW	56	49	57	51	57	50	57	51	0.6	1.7	0.4	1.3	55	50	NO	NO	NO	NO	YES	
3	3_0205		Residential	G	SW	56	49	57	51	57	50	57	51	0.5	1.6	0.2	1.1	55	50	NO	NO	NO	NO	YES	
3	3_0206		Residential	G	SW	56	49	56	51	57	50	57	51	0.5	1.6	0.1	1.2	55	50	NO	NO	NO	NO	YES	
3	3_0207		Residential	G	W	52	45	52	46	52	46	52	47	0	1.2	-0.3	0.9	55	50	NO	NO	NO	NO	NO	
3	3_0208		Residential	G	W	52	45	52	46	52	46	52	47	-0.1	1.2	-0.3	0.9	55	50	NO	NO	NO	NO	NO	
3	3_0209		Residential	G	W	51	44	51	46	52	45	52	47	0.5	1.9	0.2	1.6	55	50	NO	NO	NO	NO	NO	
3	3_0210		Residential	G	W	52	45	52	47	52	46	52	47	0.3	1.7	0.1	1.4	55	50	NO	NO	NO	NO	NO	
3	3_0211		Residential	G	W	52	45	52	47	52	46	53	47	0.4	1.7	0.2	1.4	55	50	NO	NO	NO	NO	NO	
3	3_0212		Residential	G	S	50	43	51	46	50	44	52	47	1.4	3	1.2	2.7	55	50	NO	NO	NO	NO	NO	
3	3_0213		Residential	G	SW	51	45	52	47	52	46	53	48	1	2.4	0.7	2	55	50	NO	NO	NO	NO	NO	
3	3_0214		Residential	G	SW	51	45	52	47	52	46	53	48	1.1	2.6	0.8	2.2	55	50	NO	NO	NO	NO	NO	
3	3_0215		Residential	G	NW	52	46	53	47	53	47	53	48	0.3	1.5	0.1	1.2	55	50	NO	NO	NO	NO	NO	
3	3_0216		Residential	G	N	52	46	52	47	53	47	52	47	-0.1	1	-0.3	0.7	55	50	NO	NO	NO	NO	NO	
3	3_0217		Residential	G	W	51	45	53	48	52	46	53	48	1.3	2.7	1	2.4	55	50	NO	NO	NO	NO	NO	
3	3_0218		Residential	G	SW	52	46	54	49	53	46	54	49	1.5	3	1.2	2.6	55	50	NO	NO	NO	NO	NO	
3	3_0219		Residential	G	SW	52	45	53	48	53	46	54	48	1.3	2.8	1	2.4	55	50	NO	NO	NO	NO	NO	
3	3_0220		Residential	G	SW	52	45	53	48	53	46	53	48	1	2.5	0.7	2	55	50	NO	NO	NO	NO	NO	
3	3_0220		Residential	1	SW	56	49	56	51	57	50	57	51	0.2	1.4	0	1	55	50	NO	NO	NO	NO	YES	
3	3_0221		Residential	G	N	52	46	51	46	53	47	52	46												

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h					
3	3_0326	Decora Family Day Care	Childcare Sleeping	G	W	53	48	51	46	54	48	51	46	-2.6	-2.1	-2.6	-2.2	45	-	YES	YES	NO	-	YES
3	3_0327		Residential	G	S	49	43	49	44	49	43	49	45	0.2	1.4	0	1.3	55	50	NO	NO	NO	NO	NO
3	3_0327		Residential	1	W	56	50	52	47	56	51	53	48	-3.3	-2.9	-3.4	-3	55	50	NO	NO	NO	NO	NO
3	3_0328		Residential	G	N	53	48	50	45	54	49	50	45	-3.5	-3.5	-3.5	-3.4	55	50	NO	NO	NO	NO	NO
3	3_0329		Residential	G	N	53	48	50	45	54	49	50	45	-3.4	-3.4	-3.4	-3.4	55	50	NO	NO	NO	NO	NO
3	3_0330		Residential	G	NE	54	49	50	46	54	49	51	46	-3.2	-3.1	-3.3	-3	55	50	NO	NO	NO	NO	NO
3	3_0331		Residential	G	W	54	48	50	46	54	49	51	46	-3.1	-2.9	-3.1	-2.9	55	50	NO	NO	NO	NO	NO
3	3_0332		Residential	G	N	55	50	51	46	55	50	51	47	-3.8	-3.8	-3.8	-3.7	55	50	NO	NO	NO	NO	NO
3	3_0333		Residential	G	W	54	49	51	46	55	50	52	47	-3.1	-2.8	-3.1	-2.7	55	50	NO	NO	NO	NO	NO
3	3_0334		Residential	G	N	56	51	52	47	56	51	52	47	-4	-4.1	-3.9	-3.9	55	50	NO	NO	NO	NO	NO
3	3_0335		Residential	G	NW	55	50	51	46	55	50	52	47	-3.9	-4	-3.8	-3.8	55	50	NO	NO	NO	NO	NO
3	3_0336		Residential	G	SW	54	48	52	47	54	49	52	47	-2.3	-1.6	-2.5	-1.7	55	50	NO	NO	NO	NO	NO
3	3_0337		Residential	G	S	52	46	51	46	53	47	51	47	-1.3	-0.2	-1.4	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0338		Residential	G	S	52	46	51	46	53	47	51	47	-1	-0.1	-1.2	-0.2	55	50	NO	NO	NO	NO	NO
3	3_0339		Residential	G	S	52	46	50	46	52	47	51	46	-1.2	-0.2	-1.4	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0340		Residential	G	S	52	47	51	46	53	47	51	47	-1.2	-0.3	-1.4	-0.3	55	50	NO	NO	NO	NO	NO
3	3_0341		Residential	G	S	52	46	51	46	53	47	51	47	-1.1	-0.2	-1.3	-0.3	55	50	NO	NO	NO	NO	NO
3	3_0342		Residential	G	S	52	46	51	46	53	47	51	47	-1.1	-0.2	-1.3	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0343		Residential	G	S	52	46	51	46	52	47	51	46	-1.1	-0.2	-1.2	-0.3	55	50	NO	NO	NO	NO	NO
3	3_0344		Residential	G	S	52	46	51	46	52	47	51	47	-0.9	-0.1	-1	-0.1	55	50	NO	NO	NO	NO	NO
3	3_0345		Residential	G	S	52	46	51	46	53	47	51	47	-1.2	-0.3	-1.4	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0346		Residential	G	S	52	47	51	46	53	47	51	47	-1.2	-0.3	-1.4	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0347		Residential	G	SW	53	48	51	47	54	48	52	47	-1.9	-1.1	-2	-1.3	55	50	NO	NO	NO	NO	NO
3	3_0348		Residential	G	S	52	46	51	46	53	47	51	47	-1.3	-0.3	-1.4	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0349		Residential	G	W	53	48	51	46	54	48	51	46	-2.5	-1.7	-2.5	-1.9	55	50	NO	NO	NO	NO	NO
3	3_0350		Residential	G	E	54	49	50	46	54	50	51	46	-3.4	-3.4	-3.3	-3.3	55	50	NO	NO	NO	NO	NO
3	3_0350		Residential	1	N	58	54	54	49	59	54	54	50	-4.7	-4.7	-4.5	-4.6	55	50	NO	NO	NO	NO	NO
3	3_0351		Residential	G	S	51	45	50	45	52	46	51	46	-0.9	0.3	-1.1	0.1	55	50	NO	NO	NO	NO	NO
3	3_0351		Residential	1	N	57	53	53	48	58	53	53	49	-4.5	-4.6	-4.4	-4.4	55	50	NO	NO	NO	NO	NO
3	3_0352		Residential	G	W	54	49	51	46	54	49	51	47	-2.9	-2.6	-2.9	-2.5	55	50	NO	NO	NO	NO	NO
3	3_0353		Residential	G	S	53	47	51	46	53	48	51	47	-1.6	-0.9	-1.7	-0.9	55	50	NO	NO	NO	NO	NO
3	3_0354		Residential	G	W	54	49	51	46	54	49	51	47	-2.9	-2.4	-3	-2.5	55	50	NO	NO	NO	NO	NO
3	3_0355		Residential	G	S	52	47	51	46	53	47	51	47	-1.6	-0.8	-1.6	-0.8	55	50	NO	NO	NO	NO	NO
3	3_0356		Residential	G	S	52	47	51	46	53	47	51	47	-1.6	-0.8	-1.8	-0.9	55	50	NO	NO	NO	NO	NO
3	3_0357		Residential	G	S	52	47	51	46	53	47	51	46	-1.5	-0.7	-1.7	-0.8	55	50	NO	NO	NO	NO	NO
3	3_0358		Residential	G	S	52	47	51	46	53	47	51	46	-1.5	-0.7	-1.6	-0.7	55	50	NO	NO	NO	NO	NO
3	3_0359		Residential	G	S	52	47	51	46	53	47	51	46	-1.5	-0.6	-1.6	-0.8	55	50	NO	NO	NO	NO	NO
3	3_0360		Residential	G	S	52	46	51	46	52	47	51	46	-1.2	-0.4	-1.4	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0361		Residential	G	S	52	46	51	46	52	47	51	46	-1.2	-0.4	-1.3	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0362		Residential	G	S	52	46	51	46	52	47	51	46	-1.2	-0.3	-1.3	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0363		Residential	G	SW	53	47	51	46	53	47	51	46	-1.8	-0.8	-2	-1	55	50	NO	NO	NO	NO	NO
3	3_0364		Residential	G	SW	54	48	51	46	54	49	52	47	-2.5	-1.9	-2.6	-2	55	50	NO	NO	NO	NO	NO
3	3_0365		Residential	G	W	54	48	50	46	54														

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
3	3_0397		Residential	G	W	55	50	51	46	55	50	52	47	-3.7	-3.5	-3.7	-3.4	55	50	NO	NO	NO	NO	NO	
3	3_0398		Residential	G	N	55	50	51	46	55	50	51	46	-4.1	-4.2	-4	-4.1	55	50	NO	NO	NO	NO	NO	
3	3_0399		Residential	G	N	55	51	51	46	56	51	52	47	-4.2	-4.3	-4.1	-4.1	55	50	NO	NO	NO	NO	NO	
3	3_0400		Residential	G	N	56	51	51	46	56	51	52	47	-4.3	-4.4	-4.2	-4.3	55	50	NO	NO	NO	NO	NO	
3	3_0401		Residential	G	N	56	51	52	47	56	52	52	47	-4.4	-4.4	-4.2	-4.3	55	50	NO	NO	NO	NO	NO	
3	3_0402		Residential	G	N	56	52	52	47	57	52	52	48	-4.4	-4.5	-4.3	-4.3	55	50	NO	NO	NO	NO	NO	
3	3_0403		Residential	G	N	56	52	52	47	57	52	53	48	-4.4	-4.5	-4.2	-4.3	55	50	NO	NO	NO	NO	NO	
3	3_0404		Residential	G	N	57	52	52	48	57	53	53	48	-4.6	-4.6	-4.3	-4.5	55	50	NO	NO	NO	NO	NO	
3	3_0405		Residential	G	NE	56	52	52	47	57	52	53	48	-4.4	-4.5	-4.2	-4.3	55	50	NO	NO	NO	NO	NO	
3	3_0406		Residential	G	NE	56	52	52	47	57	52	52	48	-4.4	-4.5	-4.2	-4.3	55	50	NO	NO	NO	NO	NO	
3	3_0407		Residential	G	W	52	47	51	46	53	47	52	47	-1.2	-0.2	-1.3	-0.3	55	50	NO	NO	NO	NO	NO	
3	3_0408		Residential	G	S	50	44	51	47	51	45	52	47	0.8	2.4	0.6	2.1	55	50	NO	NO	NO	NO	NO	
3	3_0408		Residential	1	S	54	48	53	48	55	49	53	48	-1.4	-0.1	-1.7	-0.3	55	50	NO	NO	NO	NO	NO	
3	3_0409		Residential	G	S	51	45	51	47	52	46	52	47	0.2	1.6	0.1	1.4	55	50	NO	NO	NO	NO	NO	
3	3_0410		Residential	G	S	51	45	52	47	52	46	52	47	0.2	1.5	0	1.3	55	50	NO	NO	NO	NO	NO	
3	3_0411		Residential	G	S	51	45	51	47	52	46	52	47	0.1	1.4	-0.1	1.2	55	50	NO	NO	NO	NO	NO	
3	3_0412		Residential	G	S	51	45	51	46	51	45	51	47	0.4	1.6	0.2	1.4	55	50	NO	NO	NO	NO	NO	
3	3_0413		Residential	G	SE	52	46	52	47	52	47	52	47	-0.3	0.9	-0.4	0.8	55	50	NO	NO	NO	NO	NO	
3	3_0414		Residential	G	SE	51	46	51	46	52	46	51	47	-0.5	0.5	-0.7	0.4	55	50	NO	NO	NO	NO	NO	
3	3_0415		Residential	G	S	52	46	51	47	53	47	52	47	-0.8	0.4	-0.9	0.2	55	50	NO	NO	NO	NO	NO	
3	3_0416		Residential	G	S	52	46	51	47	53	47	52	47	-0.9	0.3	-1.1	0.1	55	50	NO	NO	NO	NO	NO	
3	3_0417		Residential	G	S	52	46	51	47	53	47	52	47	-0.8	0.5	-1	0.3	55	50	NO	NO	NO	NO	NO	
3	3_0418		Residential	G	S	52	46	51	47	53	47	52	47	-0.7	0.6	-0.9	0.4	55	50	NO	NO	NO	NO	NO	
3	3_0419		Residential	G	S	52	46	51	47	52	47	52	47	-0.5	0.7	-0.7	0.5	55	50	NO	NO	NO	NO	NO	
3	3_0420		Residential	G	S	52	46	51	47	52	47	52	47	-0.5	0.7	-0.7	0.5	55	50	NO	NO	NO	NO	NO	
3	3_0421		Residential	G	S	52	46	51	47	52	46	52	47	-0.5	0.8	-0.7	0.6	55	50	NO	NO	NO	NO	NO	
3	3_0422		Residential	G	S	52	46	51	47	52	46	52	47	-0.5	0.8	-0.8	0.6	55	50	NO	NO	NO	NO	NO	
3	3_0423		Residential	G	S	51	45	51	47	52	46	52	47	-0.2	1.5	-0.4	1.2	55	50	NO	NO	NO	NO	NO	
3	3_0423		Residential	1	S	54	48	52	48	55	49	53	48	-1.8	-0.5	-2.1	-0.7	55	50	NO	NO	NO	NO	NO	
3	3_0424		Residential	G	S	53	46	51	47	53	47	52	47	-1.1	0.5	-1.3	0.2	55	50	NO	NO	NO	NO	NO	
3	3_0425		Residential	G	S	53	47	51	47	54	48	52	47	-1.8	-0.1	-2	-0.4	55	50	NO	NO	NO	NO	NO	
3	3_0426		Residential	G	S	54	48	51	46	55	48	52	47	-2.7	-1.1	-3.1	-1.4	55	50	NO	NO	NO	NO	NO	
3	3_0427		Residential	G	W	60	53	51	46	61	54	52	47	-8.3	-6.7	-8.6	-7.1	55	50	NO	NO	NO	NO	NO	
3	3_0428		Residential	G	S	57	51	52	47	58	52	52	47	-5.8	-3.7	-6.2	-4.2	55	50	NO	NO	NO	NO	NO	
3	3_0428		Residential	1	S	59	52	53	48	60	53	53	49	-6.2	-4.2	-6.5	-4.6	55	50	NO	NO	NO	NO	NO	
3	3_0429		Residential	G	S	52	46	52	47	53	47	52	48	-0.6	0.8	-0.9	0.5	55	50	NO	NO	NO	NO	NO	
3	3_0430		Residential	G	S	52	46	52	47	53	47	52	48	-0.3	1.2	-0.5	1	55	50	NO	NO	NO	NO	NO	
3	3_0431		Residential	G	S	52	46	52	47	53	47	52	48	-0.2	1.2	-0.4	1	55	50	NO	NO	NO	NO	NO	
3	3_0432		Residential	G	S	52	46	52	47	53	47	52	48	0	1.4	-0.2	1.2	55	50	NO	NO	NO	NO	NO	
3	3_0433		Residential	G	S	51	45	51	47	52	46	52	47	0.2	1.6	0	1.4	55	50	NO	NO	NO	NO	NO	
3	3_0434		Residential	G	S	51	45	51	47	52	46	52	47	0.4	1.6	0.2	1.4	55	50	NO	NO	NO	NO	NO	
3	3_0435		Residential	G	S	51	45	51	47	52	46	52	47	0.2	1.5	0	1.3	55	50	NO	NO	NO	NO	NO	
3	3_0436		Residential	G	S	51	45	51	46	51	46	51	46	-0.1	0.9	-0.3	0.8	55	50	NO	NO	NO			

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	Day			Night		
3	3_0469	Residential	G	NW	55	50	51	46	55	50	51	46	-3.9	-3.9	-3.9	-3.8	55	50	NO	NO	NO	NO	NO	
3	3_0470	Residential	G	NW	56	51	52	47	56	51	52	47	-4	-4	-3.9	-3.9	55	50	NO	NO	NO	NO	NO	
3	3_0471	Residential	G	W	54	48	51	46	54	49	51	46	-2.7	-2.4	-2.8	-2.5	55	50	NO	NO	NO	NO	NO	
3	3_0472	Residential	G	W	54	48	51	46	54	49	51	46	-2.9	-2.4	-3	-2.4	55	50	NO	NO	NO	NO	NO	
3	3_0473	Residential	G	E	53	48	50	45	53	48	51	46	-2.8	-2.6	-2.8	-2.6	55	50	NO	NO	NO	NO	NO	
3	3_0474	Residential	G	N	54	49	51	46	55	50	51	46	-3.8	-3.6	-3.7	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0475	Residential	G	N	55	49	51	46	55	50	52	46	-3.8	-3.5	-3.7	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0476	Residential	G	N	55	49	51	46	55	50	51	46	-3.7	-3.6	-3.8	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0477	Residential	G	N	57	51	52	46	58	52	52	47	-5.1	-4.7	-5.3	-4.8	55	50	NO	NO	NO	NO	NO	
3	3_0478	Residential	G	N	59	53	53	47	60	53	54	48	-5.6	-5.2	-5.9	-5.3	55	50	NO	NO	NO	NO	NO	
3	3_0479	Residential	G	W	60	53	51	46	60	54	52	47	-8.1	-6.9	-8.4	-7.2	55	50	NO	NO	NO	NO	NO	
3	3_0480	Residential	G	N	55	49	50	45	55	50	50	45	-4.8	-4.1	-4.9	-4.2	55	50	NO	NO	NO	NO	NO	
3	3_0481	Residential	G	N	54	49	50	45	55	49	51	46	-4.2	-3.7	-4.2	-3.7	55	50	NO	NO	NO	NO	NO	
3	3_0482	Residential	G	N	54	48	50	45	54	49	51	45	-3.7	-3.3	-3.8	-3.4	55	50	NO	NO	NO	NO	NO	
3	3_0483	Residential	G	N	54	49	50	45	54	49	51	46	-3.6	-3.4	-3.6	-3.4	55	50	NO	NO	NO	NO	NO	
3	3_0484	Residential	G	N	54	49	50	45	54	49	51	46	-3.6	-3.4	-3.6	-3.3	55	50	NO	NO	NO	NO	NO	
3	3_0485	Residential	G	E	53	48	50	46	53	48	51	46	-2.8	-2.5	-2.8	-2.4	55	50	NO	NO	NO	NO	NO	
3	3_0486	Residential	G	E	53	48	50	45	53	48	50	46	-2.9	-2.7	-2.8	-2.7	55	50	NO	NO	NO	NO	NO	
3	3_0487	Residential	G	NE	54	49	51	46	54	49	51	46	-3.3	-3.2	-3.2	-3.1	55	50	NO	NO	NO	NO	NO	
3	3_0488	Residential	G	E	54	50	51	46	55	50	51	47	-3.5	-3.4	-3.4	-3.3	55	50	NO	NO	NO	NO	NO	
3	3_0489	Residential	G	N	54	49	51	45	55	50	51	46	-3.7	-3.6	-3.7	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0490	Residential	G	N	55	49	51	46	55	50	52	46	-3.7	-3.5	-3.8	-3.5	55	50	NO	NO	NO	NO	NO	
3	3_0491	Residential	G	W	55	49	52	46	56	50	52	47	-3.4	-2.9	-3.6	-3.1	55	50	NO	NO	NO	NO	NO	
3	3_0492	Residential	G	W	60	53	54	48	61	54	54	48	-6	-5.3	-6.2	-5.6	55	50	NO	NO	NO	NO	NO	
3	3_0493	Residential	G	SW	53	48	51	46	54	48	51	46	-2.5	-2	-2.6	-2	55	50	NO	NO	NO	NO	NO	
3	3_0494	Residential	G	NE	54	50	51	46	55	50	51	47	-3.5	-3.4	-3.5	-3.4	55	50	NO	NO	NO	NO	NO	
3	3_0495	Residential	G	NW	56	51	52	47	56	51	52	47	-4	-4	-4	-4	55	50	NO	NO	NO	NO	NO	
3	3_0496	Residential	G	N	54	49	51	46	55	50	51	46	-3.7	-3.6	-3.6	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0497	Residential	G	SW	54	48	51	46	54	49	51	46	-2.9	-2.4	-3	-2.5	55	50	NO	NO	NO	NO	NO	
3	3_0498	Residential	G	W	53	46	52	47	54	47	53	47	-0.7	0.7	-0.9	0.3	55	50	NO	NO	NO	NO	NO	
3	3_0499	Residential	G	W	52	46	52	47	53	47	52	47	-0.4	0.9	-0.8	0.6	55	50	NO	NO	NO	NO	NO	
3	3_0500	Residential	G	W	53	46	52	47	54	47	53	48	-0.8	0.7	-1	0.4	55	50	NO	NO	NO	NO	NO	
3	3_0501	Residential	G	W	53	47	53	48	54	48	53	48	-0.5	0.9	-0.9	0.6	55	50	NO	NO	NO	NO	NO	
3	3_0502	Residential	G	S	54	47	52	47	54	48	52	48	-1.7	-0.1	-2	-0.4	55	50	NO	NO	NO	NO	NO	
3	3_0502	Residential	1	S	57	51	54	49	58	51	55	50	-2.8	-1.3	-3.1	-1.7	55	50	NO	NO	NO	NO	NO	
3	3_0503	Residential	G	S	56	49	53	49	57	50	54	49	-2.4	-0.8	-2.7	-1.2	55	50	NO	NO	NO	NO	NO	
3	3_0504	Residential	G	E	60	53	51	47	60	54	52	47	-8.2	-6.3	-8.5	-6.7	55	50	NO	NO	NO	NO	NO	
3	3_0505	Residential	G	E	60	54	51	47	61	54	52	47	-8.9	-6.9	-9.2	-7.4	55	50	NO	NO	NO	NO	NO	
3	3_0506	Residential	G	E	60	53	51	46	60	54	51	47	-8.6	-6.8	-9	-7.2	55	50	NO	NO	NO	NO	NO	
3	3_0507	Residential	G	W	53	47	51	46	53	47	51	46	-1.7	-0.7	-2	-0.9	55	50	NO	NO	NO	NO	NO	
3	3_0508	Residential	G	E	60	54	51	46	61	55	51	47	-9.3	-7.5	-9.7	-8	55	50	NO	NO	NO	NO	NO	
3	3_0509	Residential	G	E	60	54	51	46	61	54	51	47	-9.2	-7.4	-9.5	-7.8	55	50	NO	NO	NO	NO	NO	
3	3_0510	Residential	G	E	59	53	51	46	60	54	51	46	-8.7	-6.9	-8.9	-7.3	55	50	NO	NO	NO	NO	NO	
3	3_0511	Residential	G	E	60	53	51	46	60	54	51	46	-8.9	-7.2	-9.2	-7.5	55	50	NO	NO	NO	NO	NO	
3	3_0512	Residential	G	E	60	53	51	46	60	54	51	46	-9	-7.3	-9.3	-7.6	55	50	NO	NO				

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG poject road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
3	3_0540		Residential	G	E	53	48	51	46	54	48	52	47	-2.3	-1.5	-2.4	-1.6	55	50	NO	NO	NO	NO	NO	
3	3_0541		Residential	G	E	53	48	51	46	54	48	51	47	-2.4	-1.6	-2.6	-1.7	55	50	NO	NO	NO	NO	NO	
3	3_0542		Residential	G	W	52	46	51	45	53	47	51	46	-1.7	-0.7	-1.9	-0.9	55	50	NO	NO	NO	NO	NO	
3	3_0543		Residential	G	E	53	48	51	46	54	48	51	46	-2.7	-2	-2.8	-2.1	55	50	NO	NO	NO	NO	NO	
3	3_0544		Residential	G	E	53	48	50	45	53	48	51	46	-2.8	-2.2	-2.8	-2.2	55	50	NO	NO	NO	NO	NO	
3	3_0544		Residential	1	N	55	50	52	47	56	50	53	47	-3.4	-3.1	-3.4	-3.2	55	50	NO	NO	NO	NO	NO	
3	3_0545		Residential	G	E	54	48	51	46	54	49	51	46	-3.2	-2.6	-3.2	-2.6	55	50	NO	NO	NO	NO	NO	
3	3_0546		Residential	G	W	53	47	50	45	53	47	51	46	-2.3	-1.6	-2.5	-1.8	55	50	NO	NO	NO	NO	NO	
3	3_0547		Residential	G	E	53	48	51	46	54	48	51	46	-2.8	-2.3	-2.9	-2.3	55	50	NO	NO	NO	NO	NO	
3	3_0548		Residential	G	E	53	48	50	45	54	49	51	46	-3.1	-2.8	-3.1	-2.8	55	50	NO	NO	NO	NO	NO	
3	3_0549		Residential	G	E	53	48	50	45	54	48	51	46	-3	-2.6	-3	-2.6	55	50	NO	NO	NO	NO	NO	
3	3_0550		Residential	G	W	52	46	50	45	53	47	51	45	-2.2	-1.6	-2.5	-1.8	55	50	NO	NO	NO	NO	NO	
3	3_0551		Residential	G	E	53	48	50	45	54	48	51	46	-3.1	-2.6	-3.1	-2.7	55	50	NO	NO	NO	NO	NO	
3	3_0552		Residential	G	W	52	46	50	45	53	47	51	45	-2.3	-1.6	-2.4	-1.8	55	50	NO	NO	NO	NO	NO	
3	3_0553		Residential	G	E	53	48	50	45	53	48	51	46	-2.8	-2.4	-2.8	-2.5	55	50	NO	NO	NO	NO	NO	
3	3_0554		Residential	G	W	51	45	49	44	52	46	50	44	-1.9	-1.2	-2.1	-1.5	55	50	NO	NO	NO	NO	NO	
3	3_0555		Residential	G	E	53	48	50	45	53	48	51	46	-2.8	-2.4	-2.8	-2.4	55	50	NO	NO	NO	NO	NO	
3	3_0556		Residential	G	E	54	48	51	46	54	49	51	46	-2.9	-2.5	-2.9	-2.5	55	50	NO	NO	NO	NO	NO	
3	3_0557		Residential	G	E	54	48	51	46	54	49	51	46	-2.8	-2.5	-2.9	-2.5	55	50	NO	NO	NO	NO	NO	
3	3_0558		Residential	G	W	52	46	50	45	53	46	51	45	-1.9	-1.1	-2.1	-1.3	55	50	NO	NO	NO	NO	NO	
3	3_0559		Residential	G	E	53	48	51	46	54	49	51	46	-2.8	-2.3	-2.8	-2.4	55	50	NO	NO	NO	NO	NO	
3	3_0560		Residential	G	E	54	48	51	46	54	49	51	46	-2.7	-2.3	-2.8	-2.4	55	50	NO	NO	NO	NO	NO	
3	3_0561		Residential	G	E	52	47	50	45	53	47	50	46	-2.2	-1.7	-2.2	-1.7	55	50	NO	NO	NO	NO	NO	
3	3_0562		Residential	G	E	53	48	51	46	54	49	52	47	-2.4	-1.9	-2.5	-2	55	50	NO	NO	NO	NO	NO	
3	3_0563		Residential	G	E	54	48	51	46	54	49	52	47	-2.4	-1.7	-2.4	-1.9	55	50	NO	NO	NO	NO	NO	
3	3_0564		Residential	G	E	53	48	51	46	54	48	52	47	-2.2	-1.5	-2.2	-1.6	55	50	NO	NO	NO	NO	NO	
3	3_0565		Residential	G	E	53	48	51	46	54	48	52	47	-2.1	-1.4	-2.2	-1.5	55	50	NO	NO	NO	NO	NO	
3	3_0566		Residential	G	E	53	48	51	46	54	48	52	47	-2	-1.3	-2.2	-1.4	55	50	NO	NO	NO	NO	NO	
3	3_0567		Residential	G	E	53	48	51	47	54	48	52	47	-1.9	-1	-2.1	-1.2	55	50	NO	NO	NO	NO	NO	
3	3_0568		Residential	G	E	54	48	52	47	55	49	52	47	-2.2	-1.3	-2.3	-1.5	55	50	NO	NO	NO	NO	NO	
3	3_0569		Residential	G	S	51	45	51	46	52	46	52	47	-0.1	1.2	-0.3	1	55	50	NO	NO	NO	NO	NO	
3	3_0570		Residential	G	W	52	46	51	46	53	46	51	46	-1	0	-1.2	-0.2	55	50	NO	NO	NO	NO	NO	
3	3_0571		Residential	G	E	53	48	51	46	54	48	52	47	-2	-1.3	-2.1	-1.5	55	50	NO	NO	NO	NO	NO	
3	3_0572		Residential	G	W	52	46	51	46	53	47	51	46	-1.5	-0.5	-1.7	-0.7	55	50	NO	NO	NO	NO	NO	
3	3_0573		Residential	G	E	53	48	51	46	54	48	52	47	-2.2	-1.6	-2.2	-1.6	55	50	NO	NO	NO	NO	NO	
3	3_0574		Residential	G	E	53	47	51	46	53	48	51	46	-2.1	-1.7	-2.2	-1.7	55	50	NO	NO	NO	NO	NO	
3	3_0575		Residential	G	E	53	48	51	46	54	48	51	46	-2.3	-1.7	-2.3	-1.8	55	50	NO	NO	NO	NO	NO	
3	3_0576		Residential	G	E	53	48	50	46	54	48	51	46	-2.8	-2.2	-2.8	-2.3	55	50	NO	NO	NO	NO	NO	
3	3_0576		Residential	1	W	54	48	52	46	55	48	52	47	-2	-1.1	-2.2	-1.4	55	50	NO	NO	NO	NO	NO	
3	3_0577		Residential	G	E	53	48	50	46	54	49	51	46	-2.9	-2.5	-2.9	-2.6	55	50	NO	NO	NO	NO	NO	
3	3_0577		Residential	1	N	56	50	52	47	56	50	53	47	-3.2	-2.9	-3.3	-3	55	50	NO	NO	NO	NO	NO	
3	3_0578		Residential	G	E	54	48	51	46	54	49	51	46	-2.8	-2.4	-2.8	-2.5	55	50	NO	NO	NO	NO	NO	
3	3_0579		Residential	G	W	52	46	51	45	53	47	51	46	-1.7	-1	-2	-1.2	55	50	NO	NO	NO			

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	Day	Night					
3	3_0609		Residential	G	S	51	45	51	47	52	46	52	47	0.3	1.6	0.1	1.3	55	50	NO	NO	NO	NO	NO
3	3_0610		Residential	G	S	51	45	51	46	52	45	52	47	0.3	1.6	0.1	1.3	55	50	NO	NO	NO	NO	NO
3	3_0611		Residential	G	S	50	43	51	46	50	44	51	47	1.2	2.8	1	2.5	55	50	NO	NO	NO	NO	NO
3	3_0611		Residential	1	S	53	47	53	48	54	48	53	48	-0.7	0.7	-0.9	0.5	55	50	NO	NO	NO	NO	NO
3	3_0612		Residential	G	S	49	42	50	45	49	43	50	46	1.4	3.1	1.1	2.8	55	50	NO	NO	NO	NO	NO
3	3_0612		Residential	1	S	52	46	52	47	53	47	52	48	-0.4	1	-0.6	0.8	55	50	NO	NO	NO	NO	NO
3	3_0613		Residential	G	S	49	43	50	46	50	43	51	46	1.4	3.1	1.1	2.7	55	50	NO	NO	NO	NO	NO
3	3_0613		Residential	1	S	53	46	52	47	53	47	53	48	-0.4	0.9	-0.7	0.7	55	50	NO	NO	NO	NO	NO
3	3_0614		Residential	G	S	49	42	51	46	50	43	51	46	1.6	3.2	1.3	2.9	55	50	NO	NO	NO	NO	NO
3	3_0614		Residential	1	W	54	47	52	47	54	48	53	47	-1.3	-0.1	-1.5	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0615		Residential	G	S	49	43	50	46	50	44	51	46	1	2.5	0.7	2.2	55	50	NO	NO	NO	NO	NO
3	3_0616		Residential	G	NE	52	46	51	46	53	47	51	46	-1.4	-0.6	-1.6	-0.7	55	50	NO	NO	NO	NO	NO
3	3_0617		Residential	G	S	49	42	50	45	49	43	51	46	1.4	3	1.1	2.7	55	50	NO	NO	NO	NO	NO
3	3_0617		Residential	1	W	53	47	52	47	54	48	53	47	-1.2	-0.3	-1.6	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0618		Residential	G	W	52	46	51	46	53	47	51	46	-1.3	-0.4	-1.6	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0619		Residential	G	W	53	46	51	46	53	47	51	46	-1.6	-0.7	-1.8	-1	55	50	NO	NO	NO	NO	NO
3	3_0620		Residential	G	E	50	45	49	44	51	45	50	45	-1.1	-0.4	-1.2	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0621		Residential	G	W	52	46	51	45	53	47	51	46	-1.3	-0.4	-1.6	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0622		Residential	G	W	52	45	51	45	52	46	51	46	-1.1	-0.1	-1.3	-0.3	55	50	NO	NO	NO	NO	NO
3	3_0623		Residential	G	NW	53	47	51	45	53	47	51	46	-1.9	-1.4	-2	-1.5	55	50	NO	NO	NO	NO	NO
3	3_0624		Residential	G	W	52	46	51	45	53	47	51	46	-1.7	-0.9	-1.9	-1.2	55	50	NO	NO	NO	NO	NO
3	3_0625		Residential	G	S	50	44	50	45	50	44	50	45	0.2	1.3	0	1.1	55	50	NO	NO	NO	NO	NO
3	3_0626		Residential	G	S	50	44	50	45	50	44	50	45	0.2	1.3	0	1.1	55	50	NO	NO	NO	NO	NO
3	3_0627		Residential	G	W	51	45	50	45	52	46	51	45	-1.3	-0.3	-1.5	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0628		Residential	G	S	50	44	50	45	50	44	50	45	0.2	1.3	0	1.1	55	50	NO	NO	NO	NO	NO
3	3_0629		Residential	G	S	50	44	50	45	50	44	50	45	0.1	1.2	-0.1	1	55	50	NO	NO	NO	NO	NO
3	3_0630		Residential	G	NW	51	45	50	45	52	46	50	45	-1.6	-0.8	-1.7	-1.1	55	50	NO	NO	NO	NO	NO
3	3_0631		Residential	G	NW	52	46	50	45	52	46	51	46	-1.4	-0.5	-1.6	-0.7	55	50	NO	NO	NO	NO	NO
3	3_0632		Residential	G	W	52	45	50	45	52	46	51	45	-1.5	-0.4	-1.7	-0.8	55	50	NO	NO	NO	NO	NO
3	3_0633		Residential	G	W	51	45	50	45	52	46	51	45	-1.3	-0.2	-1.5	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0634		Residential	G	W	51	45	50	45	52	46	51	45	-1.1	-0.1	-1.3	-0.4	55	50	NO	NO	NO	NO	NO
3	3_0635		Residential	G	W	51	45	50	45	52	45	51	46	-0.7	0.5	-0.9	0.2	55	50	NO	NO	NO	NO	NO
3	3_0636		Residential	G	W	52	45	51	45	52	46	51	46	-1	0.1	-1.3	-0.2	55	50	NO	NO	NO	NO	NO
3	3_0637		Residential	G	W	53	46	51	46	54	47	52	46	-1.4	-0.4	-1.7	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0638		Residential	G	S	49	43	50	45	50	44	51	46	1	2.5	0.7	2.2	55	50	NO	NO	NO	NO	NO
3	3_0638		Residential	1	W	53	47	52	47	54	48	53	47	-1.3	-0.1	-1.5	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0639		Residential	G	S	50	43	50	45	50	44	51	46	0.5	1.8	0.3	1.5	55	50	NO	NO	NO	NO	NO
3	3_0640		Residential	G	W	52	46	51	45	53	46	51	46	-1.3	-0.3	-1.6	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0641		Residential	G	W	52	45	50	45	53	46	51	45	-1.4	-0.3	-1.7	-0.6	55	50	NO	NO	NO	NO	NO
3	3_0641		Residential	1	W	54	47	52	47	55	48	53	47	-1.7	-0.7	-2	-1	55	50	NO	NO	NO	NO	NO
3	3_0642		Residential	G	W	52	46	51	45	53	46	51	46	-1.2	-0.2	-1.5	-0.5	55	50	NO	NO	NO	NO	NO
3	3_0643		Residential	G	W	52	46	51	45	53	46	51	46	-1.4	-0.5	-1.7	-0.8	55	50	NO	NO	NO	NO	NO
3	3_0644		Residential	G	W	51	45	50	44	52	45	50	45	-1.1	-0.1	-1.4	-0.3	55	50	NO	NO	NO	NO	NO
3	3_0645		Residential	G	W	52	45	50	45	52	46	51	45	-1.2										

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
3	3_0676		Residential	G	W	51	45	51	46	52	45	51	46	-0.2	0.9	-0.6	0.7	55	50	NO	NO	NO	NO	NO	
3	3_0677		Residential	G	SW	52	45	51	46	53	46	52	46	-0.5	0.7	-0.8	0.4	55	50	NO	NO	NO	NO	NO	
3	3_0678		Residential	G	SW	51	45	51	46	52	46	52	46	-0.1	1.1	-0.5	0.7	55	50	NO	NO	NO	NO	NO	
3	3_0679		Residential	G	W	52	45	51	46	52	46	52	46	-0.6	0.6	-0.8	0.2	55	50	NO	NO	NO	NO	NO	
3	3_0680		Residential	G	W	52	45	51	46	53	46	52	46	-0.7	0.4	-1	0.1	55	50	NO	NO	NO	NO	NO	
3	3_0681		Residential	G	NW	52	46	51	46	53	47	52	46	-1.3	-0.4	-1.5	-0.7	55	50	NO	NO	NO	NO	NO	
3	3_0682		Residential	G	NW	53	46	51	45	53	47	51	46	-1.9	-1.2	-2.1	-1.4	55	50	NO	NO	NO	NO	NO	
3	3_0683		Residential	G	NW	54	48	52	46	55	49	53	47	-2.3	-1.7	-2.5	-1.9	55	50	NO	NO	NO	NO	NO	
3	3_0684		Residential	G	NW	54	48	52	46	55	48	52	47	-2.3	-1.7	-2.5	-1.9	55	50	NO	NO	NO	NO	NO	
3	3_0685		Residential	G	NW	54	48	52	46	55	48	52	46	-2.4	-1.8	-2.7	-2	55	50	NO	NO	NO	NO	NO	
3	3_0686		Residential	G	N	52	46	50	45	53	47	51	45	-2.2	-1.5	-2.3	-1.7	55	50	NO	NO	NO	NO	NO	
3	3_0687		Residential	G	W	51	45	50	45	52	46	51	45	-1.3	-0.3	-1.5	-0.5	55	50	NO	NO	NO	NO	NO	
3	3_0688		Residential	G	S	50	44	50	45	50	44	50	45	0.2	1.2	0	1	55	50	NO	NO	NO	NO	NO	
3	3_0689		Residential	G	N	52	46	50	45	53	47	50	45	-2.1	-1.5	-2.3	-1.7	55	50	NO	NO	NO	NO	NO	
3	3_0690		Residential	G	N	52	46	50	45	53	47	50	45	-2.1	-1.4	-2.3	-1.6	55	50	NO	NO	NO	NO	NO	
3	3_0691		Residential	G	N	52	46	50	44	53	47	50	45	-2.2	-1.6	-2.3	-1.7	55	50	NO	NO	NO	NO	NO	
3	3_0692		Residential	G	SW	51	45	50	45	52	45	50	45	-1	0	-1.3	-0.3	55	50	NO	NO	NO	NO	NO	
3	3_0693		Residential	G	E	52	47	50	45	53	47	51	45	-2.4	-1.9	-2.6	-2	55	50	NO	NO	NO	NO	NO	
3	3_0694		Residential	G	NW	52	46	50	45	53	46	51	45	-1.8	-1.1	-2	-1.3	55	50	NO	NO	NO	NO	NO	
3	3_0695		Residential	G	N	52	46	50	45	53	47	51	45	-2.3	-1.6	-2.5	-1.9	55	50	NO	NO	NO	NO	NO	
3	3_0696		Residential	G	W	51	45	50	45	52	46	51	45	-1.3	-0.3	-1.6	-0.6	55	50	NO	NO	NO	NO	NO	
3	3_0697		Residential	G	W	51	45	50	45	52	46	51	45	-1.4	-0.4	-1.6	-0.7	55	50	NO	NO	NO	NO	NO	
3	3_0698		Residential	G	N	52	46	50	45	53	47	51	45	-2.2	-1.5	-2.3	-1.7	55	50	NO	NO	NO	NO	NO	
3	3_0699		Residential	G	W	52	45	50	45	52	46	51	45	-1.4	-0.5	-1.7	-0.7	55	50	NO	NO	NO	NO	NO	
3	3_0700		Residential	G	W	52	46	50	45	53	47	51	45	-1.8	-0.9	-2	-1.3	55	50	NO	NO	NO	NO	NO	
3	3_0701		Residential	G	W	52	45	50	45	52	46	51	45	-1.4	-0.5	-1.7	-0.7	55	50	NO	NO	NO	NO	NO	
3	3_0702		Residential	G	W	53	46	51	45	53	47	51	46	-1.6	-0.7	-1.9	-1	55	50	NO	NO	NO	NO	NO	
3	3_0703		Residential	G	N	54	48	51	45	54	48	51	46	-2.8	-2.3	-3	-2.5	55	50	NO	NO	NO	NO	NO	
3	3_0704		Residential	G	N	53	47	51	45	54	48	51	46	-2.4	-1.9	-2.6	-2	55	50	NO	NO	NO	NO	NO	
3	3_0705		Residential	G	N	53	47	50	45	53	47	51	45	-2.4	-1.9	-2.6	-2.1	55	50	NO	NO	NO	NO	NO	
3	3_0706		Residential	G	NW	52	46	51	45	53	47	51	46	-1.9	-1.2	-2.1	-1.4	55	50	NO	NO	NO	NO	NO	
3	3_0707		Residential	G	NW	53	46	51	45	53	47	51	46	-2	-1.2	-2.2	-1.4	55	50	NO	NO	NO	NO	NO	
3	3_0708		Residential	G	NW	52	46	50	45	53	47	51	45	-2.1	-1.5	-2.3	-1.6	55	50	NO	NO	NO	NO	NO	
3	3_0709		Residential	G	W	52	46	50	44	53	47	51	45	-2.3	-1.6	-2.4	-1.9	55	50	NO	NO	NO	NO	NO	
3	3_0710		Residential	G	W	51	45	50	44	52	45	50	45	-1.3	-0.3	-1.5	-0.5	55	50	NO	NO	NO	NO	NO	
3	3_0711		Residential	G	NW	56	50	53	48	57	50	54	48	-2.6	-2.1	-2.9	-2.3	55	50	NO	NO	NO	NO	NO	
3	3_0712		Residential	G	SW	53	46	53	47	54	47	53	48	0	1.1	-0.3	0.6	55	50	NO	NO	NO	NO	NO	
3	3_0713		Residential	G	SW	53	46	52	47	54	47	53	47	-0.7	0.4	-0.9	0.1	55	50	NO	NO	NO	NO	NO	
3	3_0714		Residential	G	NW	56	50	53	48	57	51	54	48	-2.8	-2.3	-3	-2.5	55	50	NO	NO	NO	NO	NO	
3	3_0715		Residential	G	E	55	49	52	46	56	49	52	47	-3.1	-2.6	-3.3	-2.9	55	50	NO	NO	NO	NO	NO	
3	3_0716		Residential	G	NW	56	50	53	47	57	51	54	48	-3	-2.5	-3.2	-2.7	55	50	NO	NO	NO	NO	NO	
3	3_0717		Residential	G	NW	57	50	54	48	58	51	54	48	-3.1	-2.7	-3.3	-2.9	55	50	NO	NO	NO	NO	NO	
3	3_0718		Residential	G	NE	56	50	53	47	57	51	53	47	-3.4	-3.1	-3.6									

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
3	3_0750		Residential	G	N	55	50	52	46	56	50	52	47	-3.7	-3.7	-3.8	-3.8	55	50	NO	NO	NO	NO	NO	
3	3_0751		Residential	G	N	57	52	54	48	58	52	54	48	-3.9	-3.9	-4	-4	55	50	NO	NO	NO	NO	NO	
3	3_0752		Residential	G	N	57	51	53	47	57	51	53	48	-3.9	-3.9	-3.9	-3.9	55	50	NO	NO	NO	NO	NO	
3	3_0753		Residential	G	N	57	52	54	48	58	52	54	48	-3.9	-4	-4	-3.9	55	50	NO	NO	NO	NO	NO	
3	3_0754		Residential	G	N	57	52	53	48	58	52	54	48	-4	-4	-4	-4	55	50	NO	NO	NO	NO	NO	
3	3_0755		Residential	G	N	56	51	52	47	57	51	53	47	-4	-4	-4.1	-4	55	50	NO	NO	NO	NO	NO	
3	3_0756		Residential	G	N	58	52	54	48	58	52	54	48	-3.9	-3.9	-3.9	-4	55	50	NO	NO	NO	NO	NO	
3	3_0757		Residential	G	N	57	52	53	48	58	52	54	48	-3.9	-4	-4	-4.1	55	50	NO	NO	NO	NO	NO	
3	3_0758		Residential	G	N	58	52	54	48	58	52	54	48	-3.9	-4	-4	-4	55	50	NO	NO	NO	NO	NO	
3	3_0759		Residential	G	N	58	52	54	48	58	53	54	49	-3.8	-4	-4	-3.9	55	50	NO	NO	NO	NO	NO	
3	3_0760		Residential	G	N	58	52	54	48	58	53	55	49	-3.8	-3.9	-3.9	-4	55	50	NO	NO	NO	NO	NO	
3	3_0761		Residential	G	NE	59	53	55	49	59	54	56	50	-3.5	-3.6	-3.6	-3.7	55	50	NO	NO	NO	NO	NO	
3	3_0762		Residential	G	E	60	54	57	51	61	55	57	52	-3	-2.9	-3.2	-3.1	55	50	NO	NO	NO	NO	NO	
3	3_0763		Residential	G	E	53	48	50	45	54	48	51	46	-3	-2.7	-3	-2.7	55	50	NO	NO	NO	NO	NO	
3	3_0764		Residential	G	N	55	49	51	46	55	50	52	46	-3.7	-3.6	-3.7	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0765		Residential	G	N	55	49	51	46	55	50	52	46	-3.7	-3.6	-3.7	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0766		Residential	G	N	54	49	50	45	55	49	51	45	-4.1	-4.1	-4.1	-4.2	55	50	NO	NO	NO	NO	NO	
3	3_0766		Residential	1	N	57	52	53	48	58	52	54	48	-3.9	-3.9	-3.9	-3.8	55	50	NO	NO	NO	NO	NO	
3	3_0767		Residential	G	N	55	49	51	45	55	50	51	46	-4.1	-4.1	-4.1	-4.1	55	50	NO	NO	NO	NO	NO	
3	3_0767		Residential	1	N	57	52	54	48	58	52	54	48	-3.8	-3.8	-3.8	-3.9	55	50	NO	NO	NO	NO	NO	
3	3_0768		Residential	G	N	55	50	52	46	56	50	52	47	-3.7	-3.7	-3.8	-3.7	55	50	NO	NO	NO	NO	NO	
3	3_0769		Residential	G	N	55	50	52	46	56	50	52	47	-3.6	-3.6	-3.6	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0770		Residential	G	N	56	51	53	47	57	51	53	48	-3.6	-3.6	-3.7	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0771		Residential	G	W	61	54	57	51	61	55	57	51	-3.7	-3.3	-4	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0772		Residential	G	N	57	51	53	48	57	52	54	48	-3.4	-3.4	-3.6	-3.5	55	50	NO	NO	NO	NO	NO	
3	3_0773		Residential	G	N	56	51	52	47	57	51	53	48	-3.7	-3.8	-3.8	-3.7	55	50	NO	NO	NO	NO	NO	
3	3_0774		Residential	G	N	56	51	52	47	57	51	53	48	-3.9	-3.9	-3.9	-3.9	55	50	NO	NO	NO	NO	NO	
3	3_0775		Residential	G	W	60	54	57	51	61	55	58	52	-3.2	-3	-3.5	-3.3	55	50	NO	NO	NO	NO	NO	
3	3_0776		Residential	G	N	59	53	55	49	59	54	55	50	-3.8	-3.9	-3.9	-4	55	50	NO	NO	NO	NO	NO	
3	3_0777		Residential	G	N	58	53	54	49	59	53	55	49	-4	-4.1	-4	-4.1	55	50	NO	NO	NO	NO	NO	
3	3_0778		Residential	G	N	58	53	54	48	59	53	54	49	-4	-4.2	-4.1	-4.1	55	50	NO	NO	NO	NO	NO	
3	3_0779		Residential	G	NE	56	51	52	47	56	51	52	47	-3.9	-3.8	-3.8	-3.7	55	50	NO	NO	NO	NO	NO	
3	3_0780		Residential	G	NE	56	51	52	47	56	51	52	47	-4	-3.9	-3.8	-3.8	55	50	NO	NO	NO	NO	NO	
3	3_0781		Residential	G	NE	56	51	52	47	56	51	52	47	-4	-4.1	-4	-4	55	50	NO	NO	NO	NO	NO	
3	3_0782		Residential	G	N	58	52	54	48	58	53	54	49	-4.2	-4.2	-4.1	-4.2	55	50	NO	NO	NO	NO	NO	
3	3_0783		Residential	G	NW	56	50	52	46	56	51	52	47	-3.9	-3.9	-3.9	-3.9	55	50	NO	NO	NO	NO	NO	
3	3_0784		Residential	G	SW	54	49	51	46	55	49	52	47	-2.9	-2.5	-3	-2.6	55	50	NO	NO	NO	NO	NO	
3	3_0785		Residential	G	NE	55	51	51	46	56	51	52	47	-4.1	-4.2	-4	-4	55	50	NO	NO	NO	NO	NO	
3	3_0786		Residential	G	NE	55	50	51	46	55	50	51	47	-4	-4	-3.8	-3.8	55	50	NO	NO	NO	NO	NO	
3	3_0787		Residential	G	NE	55	50	51	46	55	51	51	47	-4	-4	-3.9	-3.9	55	50	NO	NO	NO	NO	NO	
3	3_0788		Residential	G	NE	55	51	51	47	56	51	52	47	-4	-4	-3.9	-3.8	55	50	NO	NO	NO	NO	NO	
3	3_0789		Residential	G	SW	55	49	52	46	55	49	52	47	-3	-2.6	-3.1	-2.7	55	50	NO	NO	NO	NO	NO	
3	3_0790		Residential	G	NE	57	52	52	47	57	52	53	48	-4.4	-4.4	-4.1	-4.2	55	50	NO	NO	NO	NO	NO	
3	3_0791		Residential	G	NW	58																			

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
3	3_0822		Residential	G	E	55	50	51	46	55	50	51	47	-3.8	-3.8	-3.7	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0823		Residential	G	W	55	50	52	47	56	51	52	47	-3.8	-3.8	-3.8	-3.6	55	50	NO	NO	NO	NO	NO	
3	3_0824		Residential	G	N	56	52	52	47	57	52	52	48	-4.8	-4.9	-4.6	-4.6	55	50	NO	NO	NO	NO	NO	
3	3_0825		Residential	G	N	56	52	51	47	57	52	52	47	-4.8	-4.8	-4.6	-4.7	55	50	NO	NO	NO	NO	NO	
3	3_0826		Residential	G	N	56	52	52	47	57	52	52	48	-4.7	-4.9	-4.6	-4.7	55	50	NO	NO	NO	NO	NO	
3	3_0827		Residential	G	N	56	52	52	47	57	52	52	48	-4.7	-4.8	-4.5	-4.6	55	50	NO	NO	NO	NO	NO	
3	3_0828		Residential	G	N	57	53	52	48	58	53	53	48	-4.8	-5	-4.6	-4.8	55	50	NO	NO	NO	NO	NO	
3	3_0829		Residential	G	N	58	54	53	49	58	54	54	49	-5	-5	-4.7	-4.9	55	50	NO	NO	NO	NO	NO	
3	3_0830		Residential	G	NE	58	54	53	49	59	54	54	49	-4.9	-5	-4.8	-4.9	55	50	NO	NO	NO	NO	NO	
3	3_0831		Residential	G	N	59	54	54	49	59	55	54	50	-5	-5.1	-4.8	-4.9	55	50	NO	NO	NO	NO	NO	
3	3_0832		Residential	G	NE	58	54	53	49	58	54	54	49	-4.9	-5	-4.7	-4.9	55	50	NO	NO	NO	NO	NO	
3	3_0833		Residential	G	NE	58	54	53	49	59	54	54	49	-5	-5	-4.7	-4.8	55	50	NO	NO	NO	NO	NO	
3	3_0834		Residential	G	NE	59	55	54	49	59	55	54	50	-5.2	-5.3	-4.9	-5	55	50	NO	NO	NO	NO	NO	
3	3_0835		Residential	G	NE	60	56	55	50	60	56	55	51	-5.2	-5.3	-5	-5.1	55	50	NO	NO	NO	NO	NO	
3	3_0836		Residential	G	N	62	58	57	52	63	58	57	53	-5.5	-5.7	-5.3	-5.4	55	50	NO	NO	NO	NO	NO	
3	3_0837		Residential	G	N	62	58	57	52	63	58	57	53	-5.5	-5.7	-5.2	-5.4	55	50	NO	NO	NO	NO	NO	
3	3_0838		Residential	G	NE	62	58	57	52	63	58	57	53	-5.5	-5.6	-5.3	-5.4	55	50	NO	NO	NO	NO	NO	
3	3_0839		Residential	G	N	62	57	56	52	62	58	57	52	-5.6	-5.6	-5.3	-5.4	55	50	NO	NO	NO	NO	NO	
3	3_0840		Residential	G	NE	60	56	54	50	60	56	55	50	-5.5	-5.6	-5.2	-5.4	55	50	NO	NO	NO	NO	NO	
3	3_0841		Residential	G	N	60	56	55	50	61	56	55	51	-5.4	-5.6	-5.2	-5.3	55	50	NO	NO	NO	NO	NO	
3	3_0842		Residential	G	N	59	54	54	49	59	55	54	50	-5.1	-5.2	-4.9	-5	55	50	NO	NO	NO	NO	NO	
3	3_0843		Residential	G	N	58	54	53	49	58	54	54	49	-5	-5.1	-4.8	-4.9	55	50	NO	NO	NO	NO	NO	
3	3_0844		Residential	G	N	57	53	52	48	58	53	53	48	-4.7	-4.8	-4.6	-4.7	55	50	NO	NO	NO	NO	NO	
3	3_0845		Residential	G	N	57	53	52	48	58	53	53	48	-4.8	-4.9	-4.6	-4.8	55	50	NO	NO	NO	NO	NO	
3	3_0846		Residential	G	N	57	53	52	48	58	53	53	48	-4.8	-4.9	-4.6	-4.7	55	50	NO	NO	NO	NO	NO	
3	3_0847		Residential	G	N	57	52	52	47	57	52	53	48	-4.6	-4.7	-4.5	-4.6	55	50	NO	NO	NO	NO	NO	
3	3_0848		Residential	G	N	56	52	52	47	57	52	52	47	-4.6	-4.6	-4.4	-4.5	55	50	NO	NO	NO	NO	NO	
3	3_0849		Residential	G	N	56	52	52	47	57	52	52	47	-4.6	-4.7	-4.4	-4.5	55	50	NO	NO	NO	NO	NO	
3	3_0850		Residential	G	N	56	51	52	47	57	52	52	47	-4.5	-4.7	-4.5	-4.5	55	50	NO	NO	NO	NO	NO	
3	3_0851		Residential	G	N	56	51	51	47	56	52	52	47	-4.5	-4.5	-4.3	-4.4	55	50	NO	NO	NO	NO	NO	
3	3_0852		Residential	G	W	56	51	52	47	56	52	52	47	-4.2	-4.3	-4.2	-4.2	55	50	NO	NO	NO	NO	NO	
3	3_0853		Residential	G	N	56	51	51	47	56	52	52	47	-4.5	-4.6	-4.3	-4.5	55	50	NO	NO	NO	NO	NO	
3	3_0854		Residential	G	N	55	51	51	46	56	51	52	47	-4.4	-4.5	-4.2	-4.4	55	50	NO	NO	NO	NO	NO	
3	3_0855		Residential	G	W	56	52	52	48	57	52	53	48	-3.9	-3.8	-3.7	-3.7	55	50	NO	NO	NO	NO	NO	
3	3_0856		Residential	G	N	58	54	53	49	58	54	54	49	-4.9	-5	-4.7	-4.9	55	50	NO	NO	NO	NO	NO	
3	3_0857		Residential	G	N	58	54	53	49	59	54	54	49	-5.1	-5.2	-4.9	-4.9	55	50	NO	NO	NO	NO	NO	
3	3_0858		Residential	G	W	58	53	53	48	58	53	54	49	-4.5	-4.6	-4.5	-4.5	55	50	NO	NO	NO	NO	NO	
3	3_0859		Residential	G	W	58	54	54	49	59	54	54	49	-4.7	-4.7	-4.6	-4.6	55	50	NO	NO	NO	NO	NO	
3	3_0860		Residential	G	W	57	52	53	48	58	53	53	48	-4.4	-4.5	-4.3	-4.4	55	50	NO	NO	NO	NO	NO	
3	3_0861		Residential	G	W	58	53	53	48	58	53	54	49	-4.5	-4.6	-4.5	-4.5	55	50	NO	NO	NO	NO	NO	
3	3_0862		Residential	G	W	57	53	53	48	58	53	54	49	-4.5	-4.5	-4.3	-4.5	55	50	NO	NO	NO	NO	NO	
3	3_0863		Residential	G	N	57	53	52	48	58	53	53	48	-4.8	-4.9	-4.7	-4.8	55	50	NO	NO	NO	NO	NO	
3	3_0864		Residential	G	N	57	53	53	48	58	53	53	48	-4											

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	Day	Night					
5	5_0017		Residential	G	N	73	66	70	63	74	67	70	63	-3.8	-3.7	-4.2	-4.1	55	50	NO	NO	NO	NO	NO
5	5_0018		Residential	G	N	72	65	69	62	73	66	69	62	-3.7	-3.6	-4.1	-4	55	50	NO	NO	NO	NO	NO
5	5_0018		Residential	G	E	68	61	65	58	69	62	65	59	-3.1	-2.4	-3.5	-2.9	55	50	NO	NO	NO	NO	YES
5	5_0019		Residential	G	N	75	68	71	64	76	69	72	65	-3.9	-3.8	-4.1	-4.1	55	50	NO	NO	NO	NO	NO
5	5_0019		Residential	G	E	66	59	63	57	67	60	64	58	-2.7	-1.6	-3	-2.1	55	50	NO	YES	NO	NO	YES
5	5_0020		Residential	G	N	72	65	68	62	73	66	69	62	-3.7	-3.4	-3.9	-3.8	55	50	NO	NO	NO	NO	NO
5	5_0020		Residential	G	S	62	55	60	54	63	56	60	55	-2.1	-0.6	-2.5	-1.1	55	50	YES	YES	NO	NO	YES
5	5_0021		Residential	G	E	62	55	61	55	63	56	61	56	-1.5	0.1	-1.9	-0.4	55	50	YES	YES	NO	NO	YES
5	5_0022		Residential	G	N	60	54	59	53	61	55	59	54	-1.6	-0.4	-2	-0.8	55	50	NO	NO	NO	NO	YES
5	5_0023		Residential	G	N	57	51	56	51	58	52	57	52	-1	0.3	-1.3	0	55	50	NO	NO	NO	NO	NO
5	5_0024		Residential	G	N	58	51	56	51	59	52	57	51	-1.6	-0.3	-2	-0.7	55	50	NO	NO	NO	NO	NO
5	5_0025		Residential	G	E	55	49	55	50	56	50	56	51	-0.2	1.3	-0.5	1	55	50	NO	NO	NO	NO	YES
5	5_0026		Residential	G	N	56	49	55	50	57	50	55	50	-0.9	0.3	-1.3	-0.1	55	50	NO	NO	NO	NO	NO
5	5_0027		Residential	G	N	58	51	56	51	58	52	57	52	-1.1	0.4	-1.5	-0.1	55	50	NO	NO	NO	NO	NO
5	5_0027		Residential	G	E	56	49	56	51	57	50	56	51	0	1.6	-0.3	1.1	55	50	NO	NO	NO	NO	YES
5	5_0028		Residential	G	N	58	51	57	52	59	52	57	52	-1.3	0.3	-1.6	-0.1	55	50	NO	NO	NO	NO	NO
5	5_0029		Residential	G	N	58	51	57	52	59	52	57	52	-1.1	0.5	-1.5	0.1	55	50	NO	NO	NO	NO	NO
5	5_0029		Residential	G	E	54	48	56	51	55	49	56	52	1.5	3.3	1.1	2.9	55	50	NO	NO	NO	NO	YES
5	5_0030		Residential	G	E	57	50	56	51	58	51	57	52	-0.5	1.2	-0.9	0.7	55	50	NO	NO	NO	NO	YES
5	5_0031		Residential	G	E	55	48	56	52	55	49	57	52	1.7	3.6	1.4	3.1	55	50	NO	NO	NO	NO	YES
5	5_0032		Residential	G	E	57	51	58	53	58	51	59	54	0.9	2.8	0.4	2.3	55	50	NO	NO	NO	NO	YES
5	5_0033		Residential	G	E	60	53	60	55	61	54	60	55	-0.5	1.2	-0.9	0.8	55	50	YES	YES	NO	NO	YES
5	5_0034		Residential	G	N	59	53	58	52	60	54	58	53	-1.8	-0.3	-2.1	-0.8	55	50	NO	NO	NO	NO	NO
5	5_0034		Residential	G	E	55	48	56	51	55	49	57	52	1.4	3.3	1.1	2.8	55	50	NO	NO	NO	NO	YES
5	5_0035		Residential	G	N	59	52	57	52	60	53	58	52	-1.8	-0.4	-2.2	-0.8	55	50	NO	NO	NO	NO	NO
5	5_0035		Residential	G	S	54	47	55	51	54	48	56	51	1.8	3.5	1.4	3.1	55	50	NO	NO	NO	NO	YES
5	5_0036		Residential	G	E	59	52	57	52	60	53	58	53	-1.4	0.2	-1.8	-0.3	55	50	NO	NO	NO	NO	NO
5	5_0036		Residential	G	S	54	47	55	51	54	48	56	51	1.6	3.3	1.3	2.9	55	50	NO	NO	NO	NO	YES
5	5_0037		Residential	G	N	59	52	57	52	60	53	58	52	-1.6	-0.3	-2	-0.7	55	50	NO	NO	NO	NO	NO
5	5_0037		Residential	G	S	54	47	55	50	54	48	56	51	1.5	3.1	1.1	2.7	55	50	NO	NO	NO	NO	YES
5	5_0038		Residential	G	N	59	52	57	52	60	53	58	52	-1.9	-0.6	-2.2	-1	55	50	NO	NO	NO	NO	NO
5	5_0039		Residential	G	E	59	52	57	52	60	53	58	52	-1.5	0.1	-1.9	-0.4	55	50	NO	NO	NO	NO	NO
5	5_0040		Residential	G	N	58	52	57	51	59	53	57	52	-1.5	-0.5	-1.9	-0.8	55	50	NO	NO	NO	NO	NO
5	5_0041		Residential	G	N	58	52	57	52	59	53	57	52	-1.5	-0.2	-1.7	-0.6	55	50	NO	NO	NO	NO	NO
5	5_0042		Residential	G	N	56	49	55	50	57	50	56	51	-0.4	1.1	-0.7	0.7	55	50	NO	NO	NO	NO	YES
5	5_0043		Residential	G	N	56	49	55	50	57	50	56	51	-0.6	0.9	-1	0.4	55	50	NO	NO	NO	NO	NO
5	5_0044		Residential	G	N	56	50	56	51	57	50	56	51	-0.4	1.2	-0.8	0.8	55	50	NO	NO	NO	NO	YES
5	5_0045		Residential	G	E	55	48	56	52	56	49	57	52	1.6	3.7	1.1	3.2	55	50	NO	NO	NO	NO	YES
5	5_0045		Residential	1	N	58	52	58	53	59	53	58	54	-0.1	1.5	-0.5	1.1	55	50	NO	NO	NO	NO	YES
5	5_0046		Residential	G	E	54	48	56	51	55	49	56	52	1.5	3.5	1	3	55	50	NO	NO	NO	NO	YES
5	5_0047		Residential	G	E	54	48	56	51	55	48	56	51	1.5	3.4	1	3	55	50	NO	NO	NO	NO	YES
5	5_0048		Residential	G	E	54	47	55	51	55	48	56	51	1.4	3.4	1.1	3	55	50	NO	NO	NO	NO	YES
5	5_0049		Residential	G	E	54	47	55	51	54	48	56	51	1.7	3.4	1.3	3	55	50	NO	NO	NO	NO	YES
5	5_0050		Residential	G	N	60	53	57	52	60	54	58	52	-2.2	-1.2	-2.5	-1.5</							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
5	5_0080		Residential	G	N	56	50	55	50	56	50	55	50	-1	0	-1.2	-0.2	56	51	NO	NO	NO	NO	NO	
5	5_0081		Residential	G	N	56	51	56	51	57	51	56	51	-0.9	-0.2	-1.2	-0.4	57	52	NO	NO	NO	NO	NO	
5	5_0082		Residential	G	N	56	51	55	50	57	51	56	51	-1	-0.3	-1.2	-0.5	57	52	NO	NO	NO	NO	NO	
5	5_0082		Residential	1	N	59	53	58	53	60	54	59	54	-0.8	0	-1	-0.2	57	52	NO	NO	NO	NO	NO	
5	5_0082		Residential	1	E	56	50	57	52	57	51	57	53	0.5	1.8	0.2	1.5	57	52	NO	NO	NO	NO	NO	
5	5_0083		Residential	G	W	57	52	57	52	58	53	57	53	-0.6	-0.2	-0.9	-0.4	57	52	NO	NO	NO	NO	NO	
5	5_0084		Residential	G	W	56	51	55	51	57	52	56	51	-0.8	-0.4	-0.9	-0.6	57	52	NO	NO	NO	NO	NO	
5	5_0085		Residential	G	N	54	48	55	50	55	49	55	50	0.4	1.6	0	1.3	55	50	NO	NO	NO	NO	NO	
5	5_0086		Residential	G	N	55	49	55	50	56	49	56	51	0.4	1.8	0.1	1.4	55	50	NO	NO	NO	NO	YES	
5	5_0087		Residential	G	N	55	49	55	50	56	50	55	50	0	1.3	-0.3	0.9	55	50	NO	NO	NO	NO	NO	
5	5_0088		Residential	G	S	51	46	53	49	52	46	54	49	1.9	3	1.7	2.7	55	50	NO	NO	NO	NO	NO	
5	5_0089		Residential	G	N	55	49	54	50	56	50	55	50	-0.3	0.8	-0.6	0.5	55	50	NO	NO	NO	NO	NO	
5	5_0090		Residential	G	N	55	49	54	50	56	50	55	50	-0.4	0.8	-0.7	0.4	55	50	NO	NO	NO	NO	NO	
5	5_0091		Residential	G	S	51	46	52	48	52	47	53	48	1	1.8	0.8	1.7	55	50	NO	NO	NO	NO	NO	
5	5_0092		Residential	G	N	55	49	54	50	56	50	55	50	-0.4	0.6	-0.7	0.3	55	50	NO	NO	NO	NO	NO	
5	5_0093		Residential	G	E	54	47	56	51	55	48	56	51	1.9	3.8	1.4	3.3	55	50	NO	NO	NO	NO	YES	
5	5_0094		Residential	G	E	52	46	54	50	53	47	55	50	2.2	3.9	1.7	3.5	55	50	NO	NO	NO	NO	NO	
5	5_0095		Residential	G	E	53	47	55	50	54	48	55	51	1.7	3.6	1.3	3.1	55	50	NO	NO	NO	NO	YES	
5	5_0096		Residential	G	E	53	47	55	51	54	48	56	51	2.1	3.9	1.6	3.5	55	50	NO	NO	NO	NO	YES	
5	5_0097		Residential	G	E	53	46	55	50	53	47	55	50	2.1	3.9	1.7	3.5	55	50	NO	NO	NO	NO	NO	
5	5_0098		Residential	G	NE	51	45	53	49	52	46	54	49	2.1	3.5	1.8	3.1	55	50	NO	NO	NO	NO	NO	
5	5_0099		Residential	G	NE	52	46	54	50	53	47	55	50	2.1	3.8	1.7	3.4	55	50	NO	NO	NO	NO	NO	
5	5_0100		Residential	G	SE	52	46	54	49	53	47	54	50	2	3.3	1.7	3.1	55	50	NO	NO	NO	NO	NO	
5	5_0101		Residential	G	SE	51	45	53	49	51	46	53	49	2.5	3.4	2.2	3.1	55	50	NO	NO	NO	NO	NO	
5	5_0102		Residential	G	SE	50	45	53	48	51	45	53	49	2.7	3.7	2.4	3.5	55	50	NO	NO	NO	NO	NO	
5	5_0103		Residential	G	SE	52	46	54	49	52	47	54	50	2	2.8	1.8	2.6	55	50	NO	NO	NO	NO	NO	
5	5_0104		Residential	G	S	52	47	54	49	53	48	54	50	1.6	2.1	1.4	2	55	50	NO	NO	NO	NO	NO	
5	5_0105		Residential	G	S	53	49	54	50	54	49	55	50	0.9	1.1	0.8	1.1	55	50	NO	NO	NO	NO	NO	
5	5_0106		Residential	G	S	52	47	54	49	53	48	54	50	1.6	2	1.4	1.9	55	50	NO	NO	NO	NO	NO	
5	5_0107		Residential	G	S	52	47	54	49	52	47	54	50	1.9	2.5	1.7	2.4	55	50	NO	NO	NO	NO	NO	
5	5_0108		Residential	G	SE	50	45	53	48	51	46	53	49	2.5	3.3	2.2	3.1	55	50	NO	NO	NO	NO	NO	
5	5_0108		Residential	1	NE	54	48	56	51	55	49	56	52	1.3	2.8	1	2.4	55	50	NO	NO	NO	NO	YES	
5	5_0109		Residential	G	SE	51	46	53	49	52	46	53	49	2.1	3	1.8	2.8	55	50	NO	NO	NO	NO	NO	
5	5_0110		Residential	G	SE	52	46	54	49	53	47	54	50	1.8	3	1.5	2.7	55	50	NO	NO	NO	NO	NO	
5	5_0111		Residential	G	SE	53	47	54	50	53	47	55	50	1.8	3.3	1.4	2.9	55	50	NO	NO	NO	NO	NO	
5	5_0112		Residential	G	E	53	46	55	50	53	47	55	50	2	3.6	1.6	3.2	55	50	NO	NO	NO	NO	NO	
5	5_0113		Residential	G	E	53	47	55	50	54	47	55	51	1.9	3.6	1.6	3.2	55	50	NO	NO	NO	NO	YES	
5	5_0114		Residential	G	E	53	46	55	50	53	47	55	50	1.9	3.7	1.5	3.3	55	50	NO	NO	NO	NO	NO	
5	5_0115		Residential	G	E	53	47	55	50	54	48	56	51	1.8	3.6	1.5	3.2	55	50	NO	NO	NO	NO	YES	
5	5_0116		Residential	G	E	53	47	55	50	54	48	55	51	1.7	3.4	1.3	3	55	50	NO	NO	NO	NO	YES	
5	5_0117		Residential	G	N	55	49	54	50	55	50	55	50	-0.1	0.8	-0.4	0.5	55	50	NO	NO	NO	NO	NO	
5	5_0118		Residential	G	N	54	48	54	49	54	49	54	49	-0.2	0.8	-0.4	0.4	55	50	NO	NO	NO	NO	NO	
5	5_0119		Residential	G	N	53	47	53	48	54	48	53	49	-0.3											

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG poject road noise criteria		Do noise levels exceed the cumlative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h			
5	5_0149		Residential	G	NW	55	50	55	50	55	50	55	51	0	0.4	-0.2	0.3	55	50	NO	NO	NO	NO	NO
5	5_0149		Residential	1	NW	56	51	56	52	56	52	56	52	0	0.5	-0.1	0.4	55	50	NO	NO	NO	NO	NO
5	5_0149		Residential	1	NE	53	48	55	51	54	48	56	51	1.9	2.8	1.5	2.5	55	50	NO	NO	NO	NO	NO
5	5_0150		Residential	G	NW	55	50	55	51	56	51	56	51	0.1	0.4	-0.1	0.4	55	50	NO	NO	NO	NO	NO
5	5_0151		Residential	G	N	55	50	55	51	55	50	56	51	0.5	1.1	0.3	1	55	50	NO	NO	NO	NO	NO
5	5_0152		Residential	G	NW	54	49	54	49	54	50	54	50	0	0.3	-0.2	0.2	55	50	NO	NO	NO	NO	NO
5	5_0152		Residential	1	NW	56	51	56	52	57	52	57	52	0.2	0.5	0	0.3	55	50	NO	NO	NO	NO	NO
5	5_0152		Residential	1	NE	55	49	56	52	55	50	56	52	1.4	2.2	1.2	2	55	50	NO	NO	NO	NO	NO
5	5_0153		Residential	G	NW	54	49	54	50	55	49	55	50	0.5	1.2	0.2	1	55	50	NO	NO	NO	NO	NO
5	5_0154		Residential	G	NW	54	48	54	50	54	49	55	50	0.6	1.4	0.4	1.1	55	50	NO	NO	NO	NO	NO
5	5_0155		Residential	G	N	53	47	54	49	53	48	54	50	0.9	1.8	0.7	1.6	55	50	NO	NO	NO	NO	NO
5	5_0156		Residential	G	E	52	46	54	50	53	47	55	50	2.4	3.9	2.1	3.6	55	50	NO	NO	NO	NO	NO
5	5_0157		Residential	G	E	51	45	54	50	52	46	55	50	3	4.6	2.6	4.2	55	50	NO	NO	NO	NO	NO
5	5_0158		Residential	G	E	51	45	54	50	52	46	55	50	3	4.6	2.7	4.2	55	50	NO	NO	NO	NO	NO
5	5_0159		Residential	G	E	51	45	54	50	52	46	55	50	3.2	4.8	2.8	4.3	55	50	NO	NO	NO	NO	NO
5	5_0160		Residential	G	E	51	45	54	50	52	46	55	50	3.2	4.7	2.8	4.4	55	50	NO	NO	NO	NO	NO
5	5_0161		Residential	G	E	51	45	54	50	52	46	55	50	3.3	4.7	2.9	4.4	55	50	NO	NO	NO	NO	NO
5	5_0162		Residential	G	E	51	45	54	49	52	45	54	50	3.3	4.7	2.9	4.4	55	50	NO	NO	NO	NO	NO
5	5_0163		Residential	G	N	51	45	54	49	52	46	54	50	2.6	3.7	2.3	3.4	55	50	NO	NO	NO	NO	NO
5	5_0164		Residential	G	N	51	45	53	49	52	46	54	49	2.3	3.4	2	3.1	55	50	NO	NO	NO	NO	NO
5	5_0165		Residential	G	N	53	47	55	50	53	48	55	51	2.2	3.2	1.9	2.9	55	50	NO	NO	NO	NO	NO
5	5_0166		Residential	G	N	53	47	54	49	53	48	54	50	1.1	2	0.8	1.7	55	50	NO	NO	NO	NO	NO
5	5_0167		Residential	G	N	53	48	54	50	54	48	55	50	1.3	2.2	1	1.9	55	50	NO	NO	NO	NO	NO
5	5_0168		Residential	G	W	53	49	54	49	54	49	54	50	0.3	0.7	0.3	0.6	55	50	NO	NO	NO	NO	NO
5	5_0169		Residential	G	E	51	45	54	49	52	46	54	49	2.5	3.6	2.3	3.4	55	50	NO	NO	NO	NO	NO
5	5_0170		Residential	G	N	52	47	54	50	53	47	55	50	2.3	3.3	2	3.1	55	50	NO	NO	NO	NO	NO
5	5_0171		Residential	G	N	54	49	55	50	55	49	55	51	0.7	1.3	0.4	1.1	55	50	NO	NO	NO	NO	NO
5	5_0171		Residential	1	N	56	51	56	52	57	52	57	52	0.5	1	0.3	0.9	55	50	NO	NO	NO	NO	NO
5	5_0171		Residential	1	N	55	50	56	51	55	50	56	52	0.9	1.6	0.7	1.3	55	50	NO	NO	NO	NO	NO
5	5_0172		Residential	G	N	52	46	53	49	52	47	54	49	1.4	2.3	1.1	2.1	55	50	NO	NO	NO	NO	NO
5	5_0173		Residential	G	N	52	46	54	50	53	47	55	50	2.4	3.4	2	3.2	55	50	NO	NO	NO	NO	NO
5	5_0174		Residential	G	NE	52	46	54	49	52	47	54	50	2.2	3.4	1.8	3.1	55	50	NO	NO	NO	NO	NO
5	5_0175		Residential	G	NE	51	45	53	48	52	46	53	49	1.9	3.2	1.6	2.9	55	50	NO	NO	NO	NO	NO
5	5_0176		Residential	G	NE	51	45	53	48	51	45	53	49	2.4	3.6	2.1	3.3	55	50	NO	NO	NO	NO	NO
5	5_0177		Residential	G	NE	50	44	52	48	51	45	53	48	2.7	3.8	2.4	3.5	55	50	NO	NO	NO	NO	NO
5	5_0178		Residential	G	SE	48	43	51	47	49	44	52	47	2.9	3.7	2.7	3.5	55	50	NO	NO	NO	NO	NO
5	5_0179		Residential	G	NE	51	45	54	49	51	46	54	50	3	4.3	2.6	4	55	50	NO	NO	NO	NO	NO
5	5_0180		Residential	G	NE	51	45	54	49	52	46	54	50	2.7	4	2.4	3.7	55	50	NO	NO	NO	NO	NO
5	5_0181		Residential	G	N	51	45	53	49	52	46	53	49	2.2	3.1	1.9	2.9	55	50	NO	NO	NO	NO	NO
5	5_0182		Residential	G	E	50	45	53	49	51	45	53	49	2.6	3.9	2.3	3.6	55	50	NO	NO	NO	NO	NO
5	5_0183		Residential	G	NE	51	45	53	49	51	46	54	49	2.4	3.6	2.1	3.2	55	50	NO	NO	NO	NO	NO
5	5_0184		Residential	G	N	50	45	52	47	51	45	52	48	1.3	2.3	1.1	2.1	55	50	NO	NO	NO	NO	NO
5	5_0185		Residential	G	N	51	45</																	

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h			
5	5_0212		Residential	G	E	48	42	52	48	49	43	53	48	4	5.6	3.7	5.3	55	50	NO	NO	NO	NO	NO
5	5_0213		Residential	G	E	47	41	52	47	48	41	52	48	5	6.8	4.7	6.4	55	50	NO	NO	NO	NO	NO
5	5_0213		Residential	1	N	50	44	54	50	51	45	55	50	4.1	5.5	3.8	5.1	55	50	NO	NO	NO	NO	NO
5	5_0214		Residential	G	E	48	42	52	48	49	43	53	48	4.2	5.6	3.9	5.4	55	50	NO	NO	NO	NO	NO
5	5_0215		Residential	G	N	50	44	54	49	50	44	54	50	4.2	5.7	3.9	5.3	55	50	NO	NO	NO	NO	NO
5	5_0216		Residential	G	NE	50	44	53	49	50	44	54	49	3.9	5.4	3.6	5.1	55	50	NO	NO	NO	NO	NO
5	5_0217		Residential	G	NE	49	44	53	49	50	44	54	49	3.7	5.1	3.4	4.8	55	50	NO	NO	NO	NO	NO
5	5_0218		Residential	G	NE	49	43	52	47	50	44	52	48	2.9	4.2	2.6	3.9	55	50	NO	NO	NO	NO	NO
5	5_0219		Residential	G	NE	49	44	53	49	50	44	54	49	3.7	5.1	3.4	4.8	55	50	NO	NO	NO	NO	NO
5	5_0220		Residential	G	NE	49	43	53	48	50	44	53	49	3.7	5.2	3.3	4.9	55	50	NO	NO	NO	NO	NO
5	5_0221		Residential	G	N	50	44	53	48	51	45	53	49	2.9	4	2.5	3.7	55	50	NO	NO	NO	NO	NO
5	5_0222		Residential	G	N	47	41	52	47	48	42	52	48	4.8	6.1	4.5	5.9	55	50	NO	NO	NO	NO	NO
5	5_0223		Residential	G	N	49	43	54	49	50	44	54	50	4.5	6.1	4.1	5.7	55	50	NO	NO	NO	NO	NO
5	5_0223		Residential	1	N	51	45	55	50	51	46	55	51	4.1	5.6	3.8	5.2	55	50	NO	NO	NO	NO	YES
5	5_0224		Residential	G	NE	50	44	54	50	50	44	54	50	4.4	5.9	4	5.6	55	50	NO	NO	NO	NO	NO
5	5_0225		Residential	G	NE	50	44	54	50	50	44	54	50	4.4	6	4	5.5	55	50	NO	NO	NO	NO	NO
5	5_0226		Residential	G	NE	50	44	54	50	50	44	54	50	4.4	6	4.1	5.6	55	50	NO	NO	NO	NO	NO
5	5_0227		Residential	G	NE	49	43	54	49	50	43	54	50	5	6.7	4.5	6.3	55	50	NO	NO	NO	NO	NO
5	5_0228		Residential	G	NE	49	43	54	49	50	44	54	50	4.8	6.4	4.4	6	55	50	NO	NO	NO	NO	NO
5	5_0229		Residential	G	NE	49	43	54	50	50	44	54	50	4.8	6.4	4.4	6	55	50	NO	NO	NO	NO	NO
5	5_0230		Residential	G	E	49	42	53	49	49	43	54	49	4.8	6.5	4.5	6.2	55	50	NO	NO	NO	NO	NO
5	5_0231		Residential	G	E	49	43	53	49	49	43	53	49	4.5	5.9	4.2	5.6	55	50	NO	NO	NO	NO	NO
5	5_0232		Residential	G	NE	49	42	53	49	49	43	54	49	4.5	6.2	4.2	5.9	55	50	NO	NO	NO	NO	NO
5	5_0233		Residential	G	E	48	42	52	48	48	42	53	48	4.4	6	4.1	5.7	55	50	NO	NO	NO	NO	NO
5	5_0234		Residential	G	N	49	43	51	46	49	44	51	46	2.1	3.1	1.8	2.9	55	50	NO	NO	NO	NO	NO
5	5_0235		Residential	G	N	49	44	52	47	50	45	52	48	2.6	3.6	2.3	3.3	55	50	NO	NO	NO	NO	NO
5	5_0236		Residential	G	W	50	45	51	47	51	46	52	47	1	1.6	0.8	1.4	55	50	NO	NO	NO	NO	NO
5	5_0237		Residential	G	N	50	44	52	48	50	45	53	48	2.7	3.8	2.4	3.5	55	50	NO	NO	NO	NO	NO
5	5_0238		Residential	G	N	49	43	51	47	49	44	52	47	2.8	3.6	2.6	3.5	55	50	NO	NO	NO	NO	NO
5	5_0239		Residential	G	N	49	43	53	48	49	44	53	48	3.8	5.2	3.5	4.9	55	50	NO	NO	NO	NO	NO
5	5_0240		Residential	G	NE	49	43	53	49	50	44	53	49	4.1	5.8	3.7	5.4	55	50	NO	NO	NO	NO	NO
5	5_0240		Residential	1	NE	50	45	54	50	51	45	55	50	3.9	5.2	3.5	4.9	55	50	NO	NO	NO	NO	NO
5	5_0241		Residential	G	NE	50	44	53	49	51	45	54	49	3.4	4.7	3	4.4	55	50	NO	NO	NO	NO	NO
5	5_0242		Residential	G	E	49	43	53	48	49	43	53	49	4	5.6	3.7	5.2	55	50	NO	NO	NO	NO	NO
5	5_0243		Residential	G	NW	50	45	52	47	51	45	52	48	1.5	2.4	1.3	2.1	55	50	NO	NO	NO	NO	NO
5	5_0244		Residential	G	NW	50	45	52	47	51	46	52	48	1.3	1.9	1	1.7	55	50	NO	NO	NO	NO	NO
5	5_0245		Residential	G	NW	50	45	51	47	51	45	52	47	1.2	2	1	1.8	55	50	NO	NO	NO	NO	NO
5	5_0246		Residential	G	SE	49	43	51	47	49	44	51	47	2.3	3.1	2.1	2.9	55	50	NO	NO	NO	NO	NO
5	5_0247		Residential	G	NE	49	43	51	46	49	43	51	47	2.3	3.6	1.9	3.3	55	50	NO	NO	NO	NO	NO
5	5_0247		Residential	1	NE	51	45	54	49	51	46	54	50	3.1	4.2	2.8	4	55	50	NO	NO	NO	NO	NO
5	5_0248		Residential	G	NW	51	47	52	48	52	47	53	48	0.8	1.4	0.6	1.2	55	50	NO	NO	NO	NO	NO
5	5_0249		Residential	G	NE	51	45	54	50	52	46	55	50	3.2	4.6	2.8	4.2	55	50	NO	NO	NO	NO	NO
5	5_0250		Residential	G	NE	50	45																	

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
5	5_0281		Residential	G	NE	49	43	51	46	50	43	52	47	2.3	3.7	1.9	3.4	55	50	NO	NO	NO	NO	NO	
5	5_0281		Residential	1	NE	51	44	53	47	52	45	53	48	1.8	3	1.5	2.6	55	50	NO	NO	NO	NO	NO	
5	5_0282		Residential	G	NE	49	43	51	46	50	44	52	47	2.1	3.5	1.8	3.2	55	50	NO	NO	NO	NO	NO	
5	5_0283		Residential	G	W	46	40	50	45	47	41	50	45	3.2	4.8	2.9	4.5	55	50	NO	NO	NO	NO	NO	
5	5_0284		Residential	G	E	48	42	51	45	49	43	51	46	2.1	3.6	1.8	3.2	55	50	NO	NO	NO	NO	NO	
5	5_0285		Residential	G	N	49	42	50	45	49	43	51	45	1.6	2.9	1.3	2.6	55	50	NO	NO	NO	NO	NO	
5	5_0286		Residential	G	E	49	42	50	45	50	43	51	45	1.2	2.2	0.8	1.8	55	50	NO	NO	NO	NO	NO	
5	5_0287		Residential	G	N	48	42	50	44	49	42	50	45	1.4	2.6	1.1	2.3	55	50	NO	NO	NO	NO	NO	
5	5_0288		Residential	G	NW	46	39	49	44	46	40	49	44	3.2	4.8	2.9	4.5	55	50	NO	NO	NO	NO	NO	
5	5_0289		Residential	G	NW	44	38	47	43	45	38	48	43	3.3	4.9	3	4.6	55	50	NO	NO	NO	NO	NO	
5	5_0289		Residential	1	NE	50	44	52	47	51	44	52	47	1.7	2.9	1.3	2.6	55	50	NO	NO	NO	NO	NO	
5	5_0290		Residential	G	SE	49	43	50	44	50	43	50	44	0.6	1.2	0.3	0.9	55	50	NO	NO	NO	NO	NO	
5	5_0291		Residential	G	SE	48	41	49	43	49	42	49	43	0.8	1.5	0.5	1.2	55	50	NO	NO	NO	NO	NO	
5	5_0292		Residential	G	SE	48	41	48	42	48	42	49	43	0.6	1.2	0.3	0.9	55	50	NO	NO	NO	NO	NO	
5	5_0293		Residential	G	E	50	43	51	46	50	44	52	46	1.6	2.8	1.3	2.4	55	50	NO	NO	NO	NO	NO	
5	5_0294		Residential	G	E	49	43	51	45	50	44	51	45	1.2	2.3	0.9	1.9	55	50	NO	NO	NO	NO	NO	
5	5_0295		Residential	G	E	50	43	52	47	51	44	52	47	2.1	3.4	1.7	3	55	50	NO	NO	NO	NO	NO	
5	5_0296		Residential	G	E	50	43	52	47	51	44	52	47	2.2	3.7	1.9	3.3	55	50	NO	NO	NO	NO	NO	
5	5_0297		Residential	G	E	49	43	51	46	50	44	52	46	1.9	3.1	1.5	2.8	55	50	NO	NO	NO	NO	NO	
5	5_0298		Residential	G	E	50	43	52	47	50	44	52	47	2.4	3.9	2.1	3.5	55	50	NO	NO	NO	NO	NO	
5	5_0299		Residential	G	N	49	42	52	47	50	43	52	47	3	4.5	2.6	4.1	55	50	NO	NO	NO	NO	NO	
5	5_0300		Residential	G	SE	49	43	50	44	50	43	50	44	0.6	1.3	0.3	1	55	50	NO	NO	NO	NO	NO	
5	5_0301		Residential	G	SE	49	42	50	44	50	43	50	44	0.6	1.3	0.3	1	55	50	NO	NO	NO	NO	NO	
5	5_0302		Residential	G	SE	47	41	48	42	48	41	49	43	0.9	1.7	0.6	1.4	55	50	NO	NO	NO	NO	NO	
5	5_0302		Residential	1	SE	50	44	51	45	51	44	51	45	0.6	1.3	0.3	1	55	50	NO	NO	NO	NO	NO	
5	5_0303		Residential	G	SE	48	41	49	43	49	42	49	43	0.9	1.7	0.5	1.4	55	50	NO	NO	NO	NO	NO	
5	5_0303		Residential	1	NE	50	43	52	46	50	44	52	47	1.8	3	1.4	2.7	55	50	NO	NO	NO	NO	NO	
5	5_0304		Residential	G	E	49	42	50	44	50	43	50	44	0.9	1.7	0.5	1.3	55	50	NO	NO	NO	NO	NO	
5	5_0305		Residential	G	E	49	42	50	45	50	43	51	45	1.2	2.2	0.8	1.8	55	50	NO	NO	NO	NO	NO	
5	5_0305		Residential	1	E	51	44	52	46	51	45	52	46	1.1	2	0.8	1.7	55	50	NO	NO	NO	NO	NO	
5	5_0306		Residential	G	E	49	42	50	45	50	43	51	45	1.4	2.4	1.1	2.1	55	50	NO	NO	NO	NO	NO	
5	5_0307		Residential	G	E	49	42	51	46	50	43	51	46	1.9	3.2	1.6	2.9	55	50	NO	NO	NO	NO	NO	
5	5_0307		Residential	1	E	50	44	52	47	51	45	53	47	1.9	3.2	1.6	2.8	55	50	NO	NO	NO	NO	NO	
5	5_0308		Residential	G	E	49	42	51	46	50	43	52	47	2.3	3.9	2	3.5	55	50	NO	NO	NO	NO	NO	
5	5_0309		Residential	G	E	49	42	51	46	50	43	52	47	2.4	3.9	2	3.5	55	50	NO	NO	NO	NO	NO	
5	5_0310		Residential	G	E	49	42	51	46	50	43	52	47	2.5	4.1	2.2	3.7	55	50	NO	NO	NO	NO	NO	
5	5_0311		Residential	G	E	49	42	51	46	50	43	52	46	2.4	4	2.1	3.5	55	50	NO	NO	NO	NO	NO	
5	5_0312		Residential	G	E	48	41	49	44	48	42	50	44	1.6	2.7	1.3	2.4	55	50	NO	NO	NO	NO	NO	
5	5_0313		Residential	G	E	48	42	50	45	49	42	51	46	2.3	3.7	1.9	3.3	55	50	NO	NO	NO	NO	NO	
5	5_0314		Residential	G	E	48	42	50	45	49	42	51	46	2.2	3.7	1.8	3.4	55	50	NO	NO	NO	NO	NO	
5	5_0315		Residential	G	N	49	42	52	47	49	43	52	47	3.2	4.7	2.9	4.3	55	50	NO	NO	NO	NO	NO	
5	5_0316		Residential	G	N	48	41	51	47	48	42	52	47	3.7	5.4	3.4	5	55	50	NO	NO	NO	NO	NO	
5	5_0316		Residential	1	N	49	42	52	47	49	43	52													

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h			≥ 60dB LAeq,9h		
5	5_0350		Residential	G	NE	46	40	48	43	47	40	49	44	2.2	3.6	1.9	3.3	55	50	NO	NO	NO	NO	NO
5	5_0351		Residential	G	NE	49	42	51	46	49	43	51	46	2.3	3.7	2	3.4	55	50	NO	NO	NO	NO	NO
5	5_0352		Residential	G	NE	49	42	51	46	49	43	51	46	2.5	4	2.2	3.6	55	50	NO	NO	NO	NO	NO
5	5_0353		Residential	G	NE	49	42	51	46	49	43	51	46	2.4	3.9	2	3.6	55	50	NO	NO	NO	NO	NO
5	5_0354		Residential	G	NE	49	42	51	46	49	43	51	46	2.3	3.7	1.9	3.3	55	50	NO	NO	NO	NO	NO
5	5_0355		Residential	G	NE	48	41	50	45	49	42	50	45	1.9	3.2	1.6	2.9	55	50	NO	NO	NO	NO	NO
5	5_0356		Residential	G	NE	48	41	49	44	48	42	50	45	1.7	3.1	1.4	2.7	55	50	NO	NO	NO	NO	NO
5	5_0357		Residential	G	NE	47	41	50	44	48	42	50	45	2.2	3.5	1.9	3.2	55	50	NO	NO	NO	NO	NO
5	5_0358		Residential	G	NW	46	40	48	44	47	40	49	44	2.6	4	2.3	3.7	55	50	NO	NO	NO	NO	NO
5	5_0359		Residential	G	NW	45	39	48	43	46	39	48	44	3.2	4.7	2.9	4.4	55	50	NO	NO	NO	NO	NO
5	5_0359		Residential	1	NE	49	43	51	46	50	43	52	47	2.4	3.8	2.1	3.4	55	50	NO	NO	NO	NO	NO
5	5_0360		Residential	G	SE	46	40	48	43	47	40	48	43	1.9	3.1	1.6	2.8	55	50	NO	NO	NO	NO	NO
5	5_0361		Residential	G	NW	46	40	48	44	47	40	49	44	2.5	3.9	2.1	3.6	55	50	NO	NO	NO	NO	NO
5	5_0362		Residential	G	NE	48	42	51	46	49	43	51	47	2.7	4.1	2.3	3.8	55	50	NO	NO	NO	NO	NO
5	5_0363		Residential	G	NE	48	42	51	46	49	42	51	46	3	4.5	2.6	4.2	55	50	NO	NO	NO	NO	NO
5	5_0364		Residential	G	NE	48	41	51	46	49	42	51	46	2.8	4.4	2.4	4.1	55	50	NO	NO	NO	NO	NO
5	5_0365		Residential	G	NE	48	42	51	46	49	42	51	46	2.7	4.3	2.4	4	55	50	NO	NO	NO	NO	NO
5	5_0366		Residential	G	NW	47	41	51	46	48	42	51	46	3.2	4.7	2.8	4.4	55	50	NO	NO	NO	NO	NO
5	5_0367		Residential	G	NE	48	42	51	46	49	42	51	47	2.9	4.4	2.5	4.1	55	50	NO	NO	NO	NO	NO
5	5_0368		Residential	G	NW	48	42	51	47	48	42	52	47	3.5	4.9	3.2	4.5	55	50	NO	NO	NO	NO	NO
5	5_0369		Residential	G	NE	49	42	52	47	49	43	52	47	2.9	4.2	2.4	3.9	55	50	NO	NO	NO	NO	NO
5	5_0370		Residential	G	NE	49	43	52	47	50	43	52	48	3.2	4.6	2.8	4.3	55	50	NO	NO	NO	NO	NO
5	5_0371		Residential	G	NE	49	42	52	47	49	43	52	47	3.3	4.8	3	4.5	55	50	NO	NO	NO	NO	NO
5	5_0372		Residential	G	NE	48	42	52	47	49	43	52	47	3.3	4.9	3	4.6	55	50	NO	NO	NO	NO	NO
5	5_0373		Residential	G	NE	48	42	52	47	49	43	52	47	3.2	4.7	2.8	4.3	55	50	NO	NO	NO	NO	NO
5	5_0374		Residential	G	NE	48	42	51	47	49	43	52	47	2.9	4.3	2.6	4	55	50	NO	NO	NO	NO	NO
5	5_0375		Residential	G	NE	48	42	51	47	49	43	52	47	3.2	4.7	2.9	4.3	55	50	NO	NO	NO	NO	NO
5	5_0376		Residential	G	NE	49	43	52	47	49	43	52	47	3.1	4.4	2.7	4.1	55	50	NO	NO	NO	NO	NO
5	5_0377		Residential	G	N	49	43	51	47	49	43	52	47	2.7	4	2.4	3.7	55	50	NO	NO	NO	NO	NO
5	5_0378		Residential	G	N	48	43	52	47	49	43	52	48	3.3	4.6	3	4.3	55	50	NO	NO	NO	NO	NO
5	5_0379		Residential	G	N	48	43	51	47	49	43	52	47	3.1	4.3	2.8	4	55	50	NO	NO	NO	NO	NO
5	5_0379		Residential	1	N	50	44	53	48	50	45	53	48	3	4	2.7	3.8	55	50	NO	NO	NO	NO	NO
5	5_0380		Residential	G	N	49	43	52	47	49	44	52	47	2.7	3.6	2.4	3.5	55	50	NO	NO	NO	NO	NO
5	5_0381		Residential	G	N	49	44	52	47	50	45	52	48	2.4	3.3	2.2	3.1	55	50	NO	NO	NO	NO	NO
5	5_0382		Residential	G	N	49	44	52	47	50	45	52	48	2.4	3.1	2.2	3	55	50	NO	NO	NO	NO	NO
5	5_0383		Residential	G	N	50	45	52	47	50	45	52	48	2.1	2.8	1.9	2.7	55	50	NO	NO	NO	NO	NO
5	5_0384		Residential	G	NW	50	45	52	48	51	46	52	48	1.9	2.5	1.8	2.4	55	50	NO	NO	NO	NO	NO
5	5_0385		Residential	G	N	51	46	53	49	52	47	53	49	1.9	2.4	1.7	2.3	55	50	NO	NO	NO	NO	NO
5	5_0386		Residential	G	N	50	45	52	48	51	46	52	48	1.9	2.6	1.7	2.4	55	50	NO	NO	NO	NO	NO
5	5_0387		Residential	G	N	50	45	52	48	51	46	53	48	2.1	2.8	1.9	2.7	55	50	NO	NO	NO	NO	NO
5	5_0388		Residential	G	N	49	43	52	47	49	44	52	47	2.8	3.9	2.5	3.7	55	50	NO	NO	NO	NO	NO
5	5_0389		Residential	G	N	49	43	51	47	50	44	52	47	2.5	3.4	2.3	3.2	55	50	NO	NO	NO	NO	NO
5	5_0390		Residential	G	N	49	43	52	47	50	44	52	48	3	4	2.7	3.8	55	50	NO	NO	NO	NO	NO
5	5_0391		Residential	G	N	49																		

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h			≥ 60dB LAeq,9h		
5	5_0422		Residential	G	E	48	42	52	48	49	42	53	48	4.4	6	4	5.7	55	50	NO	NO	NO	NO	NO
5	5_0423		Residential	G	NE	48	42	52	47	49	43	52	47	3.6	4.8	3.2	4.5	55	50	NO	NO	NO	NO	NO
5	5_0424		Residential	G	E	47	41	51	46	48	42	51	47	3.9	5.5	3.6	5.2	55	50	NO	NO	NO	NO	NO
5	5_0425		Residential	G	N	48	42	51	47	49	43	52	47	3.6	4.9	3.3	4.6	55	50	NO	NO	NO	NO	NO
5	5_0425		Residential	1	N	49	44	53	48	50	44	53	49	3.5	4.6	3.2	4.4	55	50	NO	NO	NO	NO	NO
5	5_0426		Residential	G	N	49	43	52	48	49	44	53	48	3.6	4.8	3.3	4.6	55	50	NO	NO	NO	NO	NO
5	5_0427		Residential	G	N	49	44	52	48	50	44	53	48	3.3	4.3	3.1	4.1	55	50	NO	NO	NO	NO	NO
5	5_0427		Residential	1	N	50	45	53	49	51	46	54	49	3	3.8	2.7	3.5	55	50	NO	NO	NO	NO	NO
5	5_0428		Residential	G	N	49	44	52	47	49	44	52	48	3	3.8	2.8	3.7	55	50	NO	NO	NO	NO	NO
5	5_0428		Residential	1	N	50	45	53	48	51	46	53	49	2.7	3.4	2.4	3.2	55	50	NO	NO	NO	NO	NO
5	5_0429		Residential	G	N	49	44	51	46	50	45	51	47	1.7	2.4	1.5	2.2	55	50	NO	NO	NO	NO	NO
5	5_0430		Residential	G	NW	50	45	52	47	50	45	52	48	2	2.6	1.9	2.5	55	50	NO	NO	NO	NO	NO
5	5_0431		Residential	G	NW	50	46	51	47	51	46	52	48	1.1	1.5	0.9	1.4	55	50	NO	NO	NO	NO	NO
5	5_0432		Residential	G	N	49	43	52	47	49	44	52	48	3.2	4.4	2.9	4.1	55	50	NO	NO	NO	NO	NO
5	5_0432		Residential	1	W	52	47	53	48	52	47	53	49	0.9	1.3	0.7	1.2	55	50	NO	NO	NO	NO	NO
5	5_0433		Residential	G	NW	49	44	51	46	50	45	51	47	1.5	2	1.3	1.9	55	50	NO	NO	NO	NO	NO
5	5_0434		Residential	G	NW	49	44	50	46	49	44	51	46	1.7	2.2	1.5	2	55	50	NO	NO	NO	NO	NO
5	5_0434		Residential	1	NW	51	46	53	48	51	46	53	49	2	2.6	1.8	2.4	55	50	NO	NO	NO	NO	NO
5	5_0435		Residential	G	N	48	43	51	46	49	44	51	47	2.4	3.1	2.2	3	55	50	NO	NO	NO	NO	NO
5	5_0436		Residential	G	N	48	43	52	47	49	44	52	48	3.3	4.1	3	4	55	50	NO	NO	NO	NO	NO
5	5_0437		Residential	G	N	48	43	51	47	49	43	52	47	3.2	4.2	3	3.9	55	50	NO	NO	NO	NO	NO
5	5_0438		Residential	G	N	48	43	52	47	49	44	52	48	3.2	4.2	2.9	4	55	50	NO	NO	NO	NO	NO
5	5_0439		Residential	G	N	49	43	52	48	49	44	53	48	3.6	4.8	3.3	4.5	55	50	NO	NO	NO	NO	NO
5	5_0440		Residential	G	N	49	43	52	48	49	44	53	48	3.5	4.9	3.2	4.5	55	50	NO	NO	NO	NO	NO
5	5_0441		Residential	G	N	48	42	52	48	49	43	53	48	3.7	5.2	3.3	4.8	55	50	NO	NO	NO	NO	NO
5	5_0442		Residential	G	NE	48	42	52	47	49	43	52	48	3.8	5.3	3.5	5	55	50	NO	NO	NO	NO	NO
5	5_0443		Residential	G	NE	48	42	52	47	49	42	52	48	4.1	5.7	3.7	5.4	55	50	NO	NO	NO	NO	NO
5	5_0444		Residential	G	N	49	43	52	48	49	44	53	48	3.6	4.8	3.3	4.5	55	50	NO	NO	NO	NO	NO
5	5_0445		Residential	G	N	49	43	52	48	49	44	53	48	3.5	4.6	3.2	4.3	55	50	NO	NO	NO	NO	NO
5	5_0446		Residential	G	N	49	43	52	48	49	44	53	48	3.4	4.5	3.1	4.2	55	50	NO	NO	NO	NO	NO
5	5_0447		Residential	G	N	49	44	52	48	50	44	52	48	3	4	2.8	3.7	55	50	NO	NO	NO	NO	NO
5	5_0448		Residential	G	N	49	43	51	46	49	44	51	47	2.2	3	2	2.8	55	50	NO	NO	NO	NO	NO
5	5_0449		Residential	G	N	49	43	51	47	49	44	52	47	2.7	3.4	2.4	3.3	55	50	NO	NO	NO	NO	NO
5	5_0450		Residential	G	NW	50	45	52	47	50	45	52	48	2.2	2.8	2	2.6	55	50	NO	NO	NO	NO	NO
5	5_0451		Residential	G	NW	49	44	50	46	50	45	51	46	1.1	1.6	0.9	1.4	55	50	NO	NO	NO	NO	NO
5	5_0452		Residential	G	NE	48	42	53	49	49	43	54	49	4.7	6.5	4.4	6.1	55	50	NO	NO	NO	NO	NO
5	5_0453		Residential	G	N	70	63	66	59	71	64	67	60	-3.9	-3.9	-4.2	-4.2	55	50	NO	NO	NO	NO	NO
5	5_0454		Residential	G	E	60	54	58	52	61	55	59	53	-2.5	-1.6	-2.8	-2	56	51	NO	NO	NO	NO	NO
6	6_0001		Residential	G	N	72	65	68	61	73	66	69	62	-4	-4	-4.2	-4.3	55	50	NO	NO	NO	NO	NO
6	6_0001		Residential	G	S	62	55	60	54	63	56	60	55	-1.8	-0.4	-2.1	-0.8	55	50	YES	YES	NO	NO	YES
6	6_0002		Residential	G	N	58	52	56	50	59	52	56	50	-2.2	-1.7	-2.6	-1.9	55	50	NO	NO	NO	NO	NO
7	7_0001		Residential	G	SE	72	65	67	60	72	65	68	61	-4.1	-4.1	-4.2	-4.3	55	50	NO	NO	NO	NO	NO
7	7_0002		Residential	G	SE	72	65	68	61	73	66	69	62	-4.1	-4.2	-4.2	-4.4	55	50	NO	NO	NO	NO	NO
7	7_0003		Residential	G	SE	72	65	68	60</															

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h			≥ 60dB LAeq,9h		
7	7_0033		Residential	G	SW	62	55	58	51	62	56	59	52	-3.6	-3.4	-3.9	-3.7	55	50	NO	NO	NO	NO	NO
7	7_0034		Residential	G	SW	56	50	53	47	57	50	54	48	-3	-2.5	-3.3	-2.8	55	50	NO	NO	NO	NO	NO
7	7_0034		Residential	1	SW	60	53	57	50	61	54	57	51	-3.4	-3	-3.6	-3.3	55	50	NO	NO	NO	NO	NO
7	7_0035		Residential	G	SW	57	50	54	48	58	51	55	49	-3	-2.4	-3.3	-2.7	55	50	NO	NO	NO	NO	NO
7	7_0036		Residential	G	SE	62	55	58	51	63	56	59	52	-3.9	-3.9	-4.1	-4.1	55	50	NO	NO	NO	NO	NO
7	7_0036		Residential	1	SE	64	57	60	53	65	58	60	54	-3.8	-3.8	-4.1	-4.1	55	50	NO	NO	NO	NO	NO
7	7_0037		Residential	G	SE	63	56	59	52	64	57	60	53	-3.9	-3.9	-4.1	-4.2	55	50	NO	NO	NO	NO	NO
7	7_0038		Residential	G	SE	65	58	61	54	66	59	61	54	-3.9	-4	-4.1	-4.2	55	50	NO	NO	NO	NO	NO
7	7_0039		Residential	G	SE	66	59	62	55	67	60	63	56	-4.1	-4.2	-4.2	-4.3	55	50	NO	NO	NO	NO	NO
7	7_0040		Residential	G	SE	67	60	63	56	68	61	64	57	-4.2	-4.2	-4.2	-4.4	55	50	NO	NO	NO	NO	NO
7	7_0041		Residential	G	S	70	63	66	59	71	64	66	59	-4.2	-4.3	-4.3	-4.5	55	50	NO	NO	NO	NO	NO
7	7_0042		Residential	G	S	71	64	67	60	72	65	68	61	-4.2	-4.3	-4.3	-4.5	55	50	NO	NO	NO	NO	NO
7	7_0043		Residential	G	S	72	65	68	61	73	66	69	62	-4.2	-4.4	-4.3	-4.5	55	50	NO	NO	NO	NO	NO
7	7_0044		Residential	G	S	72	65	68	61	73	66	69	62	-4.3	-4.3	-4.3	-4.5	55	50	NO	NO	NO	NO	NO
7	7_0045		Residential	G	S	71	64	67	59	72	65	67	60	-4.1	-4.3	-4.3	-4.5	55	50	NO	NO	NO	NO	NO
8	8_0001		Residential	G	S	72	65	68	61	73	66	69	62	-4	-4	-4.2	-4.2	55	50	NO	NO	NO	NO	NO
8	8_0002		Residential	G	S	71	64	67	61	72	65	68	61	-3.9	-3.8	-4.1	-4.2	55	50	NO	NO	NO	NO	NO
8	8_0003		Residential	G	S	72	65	68	61	73	66	69	62	-4	-3.8	-4	-4.2	55	50	NO	NO	NO	NO	NO
8	8_0003		Residential	G	W	67	60	64	57	68	61	64	58	-3.3	-2.9	-3.5	-3.2	55	50	NO	NO	NO	NO	YES
8	8_0004		Residential	G	S	64	57	61	55	65	58	62	55	-3	-2.1	-3.1	-2.5	55	50	NO	YES	NO	NO	YES
8	8_0005		Residential	G	SW	59	52	59	55	59	53	60	55	0.8	2.7	0.4	2.2	55	50	YES	YES	NO	NO	YES
8	8_0006		Residential	G	SW	55	49	57	52	56	50	57	52	1.3	2.9	0.9	2.5	55	50	NO	NO	NO	NO	YES
8	8_0007		Residential	G	W	54	48	56	51	55	49	56	52	2	3.2	1.6	2.9	55	50	NO	NO	NO	NO	YES
8	8_0008		Residential	G	SW	59	53	59	54	60	53	59	54	-0.3	1.3	-0.7	0.9	55	50	NO	NO	NO	NO	YES
9	9_0001	First floor apartments	Residential	G	S	75	68	71	64	76	69	72	65	-4.2	-4.3	-4.2	-4.4	60	55	NO	NO	NO	NO	NO
9	9_0001	First floor apartments	Residential	1	S	76	69	72	65	77	70	73	66	-3.9	-3.9	-4	-4.2	60	55	NO	NO	NO	NO	NO
9	9_0001	First floor apartments	Residential	1	W	70	64	67	62	71	65	68	63	-2.5	-2.2	-2.5	-2.2	60	55	YES	YES	NO	NO	YES
9	9_0002	First floor apartments	Residential	G	S	76	69	71	64	76	69	72	65	-4.2	-4.2	-4.2	-4.3	60	55	NO	NO	NO	NO	NO
9	9_0002	First floor apartments	Residential	1	S	77	70	73	66	77	71	73	66	-4.1	-4.1	-4.2	-4.3	60	55	NO	NO	NO	NO	NO
9	9_0003		Residential	G	E	67	60	64	58	68	61	65	59	-2.5	-1.3	-2.8	-1.7	55	50	YES	YES	NO	NO	YES
9	9_0004		Residential	G	E	64	57	62	56	65	58	63	57	-2.4	-1.3	-2.7	-1.8	55	50	NO	YES	NO	NO	YES
9	9_0005		Residential	G	S	73	66	69	62	74	67	70	63	-4.1	-4.1	-4.2	-4.3	55	50	NO	NO	NO	NO	NO
9	9_0005		Residential	G	E	69	62	65	59	70	63	66	60	-3.4	-2.9	-3.6	-3.2	55	50	NO	NO	NO	NO	YES
9	9_0006		Residential	G	S	75	68	71	64	76	69	72	65	-4.2	-4.3	-4.3	-4.5	55	50	NO	NO	NO	NO	NO
9	9_0006		Residential	G	N	60	53	59	54	61	54	59	54	-1	0.5	-1.2	0.1	55	50	NO	NO	NO	NO	YES
9	9_0007		Residential	G	E	63	56	61	56	64	57	62	56	-2.1	-0.8	-2.3	-1.2	55	50	YES	YES	NO	NO	YES
9	9_0008		Residential	G	S	70	63	66	59	70	64	66	59	-4	-4	-4.2	-4.2	55	50	NO	NO	NO	NO	NO
9	9_0008		Residential	G	E	65	58	62	55	66	59	62	56	-3.2	-2.6	-3.4	-2.9	55	50	NO	NO	NO	NO	YES
9	9_0009		Residential	G	S	75	68	71	64	76	69	71	64	-4.2	-4.3	-4.3	-4.5	55	50	NO	NO	NO	NO	NO
9	9_0010	World of Learning Child Care	Childcare Sleeping	G	S	72	65	68	61	73	66	68	61	-4.2	-4.3	-4.2	-4.5	45	-	NO	NO	NO	-	NO
9	9_0010	World of Learning Child Care	Childcare Sleeping	G	N	56	50	57	52	57	51	57	53	0.9	2.1	0.6	1.9	45	-	YES	YES	NO	-	YES
9	9_0011		Residential	G	E	69	62	65	58	69	63	65	58	-4	-4	-4.2	-4.2	57	52	NO	NO	NO	NO	NO
9	9_0012		Residential	G	S	73	66	69	62	74	67	70	63	-4.2	-4.3	-4.3	-4.5	58	53	NO	NO	NO	NO	NO
9	9_0013																							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h			≥ 60dB LAeq,9h		
10	10_0026		School Classroom	G	N	55	51	56	52	56	52	57	52	0.7	0.9	0.8	0.8	50	-	YES	YES	NO	-	YES
10	10_0027		School Classroom	G	E	56	52	56	52	57	52	57	53	0.4	0.3	0.4	0.4	50	-	YES	YES	NO	-	YES
10	10_0028		School Classroom	G	N	58	53	57	53	58	54	58	54	-0.2	-0.4	-0.1	-0.2	50	-	YES	YES	NO	-	YES
10	10_0029		School Classroom	G	E	61	56	60	55	61	57	61	56	-0.7	-0.7	-0.8	-0.6	50	-	YES	YES	NO	-	YES
10	10_0031		Residential	G	E	71	67	69	65	71	68	70	66	-1.3	-1.6	-1.1	-1.4	60	55	YES	YES	YES	YES	YES
10	10_0032		Residential	G	E	72	69	71	67	73	69	72	68	-1.5	-1.7	-1.2	-1.4	60	55	YES	YES	YES	YES	YES
10	10_0033		Residential	G	E	72	69	71	67	73	70	72	68	-1.5	-1.7	-1.2	-1.5	60	55	YES	YES	YES	YES	YES
10	10_0034		Residential	G	E	71	67	69	66	72	68	71	67	-1.6	-1.8	-1.3	-1.6	60	55	YES	YES	YES	YES	YES
10	10_0035		Residential	G	NW	60	56	60	55	61	57	61	56	-0.7	-1	-0.5	-0.7	60	55	NO	NO	NO	NO	NO
10	10_0036		Residential	G	N	62	57	61	56	62	58	62	57	-0.8	-1	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
10	10_0037		Residential	G	NW	63	59	62	58	63	59	63	59	-0.9	-1	-0.5	-0.8	60	55	NO	NO	NO	NO	NO
10	10_0038		Residential	G	NE	65	60	64	59	65	61	65	60	-1	-1.2	-0.8	-1	60	55	YES	YES	NO	YES	YES
10	10_0039		Residential	G	N	64	60	63	59	65	61	64	60	-1.2	-1.4	-0.9	-1.2	60	55	NO	YES	NO	YES	YES
10	10_0040		School Classroom	G	S	65	58	64	57	66	59	64	58	-1	-1	-1.8	-1.8	50	-	NO	NO	NO	-	NO
10	10_0040		School Classroom	G	N	54	49	54	49	55	50	55	50	-0.1	0	-0.3	-0.2	50	-	YES	YES	NO	-	YES
10	10_0041		School Classroom	G	S	59	52	58	52	60	53	58	52	-1	-0.9	-1.6	-1.4	50	-	NO	NO	NO	-	NO
10	10_0041		School Classroom	G	N	55	50	55	50	56	51	56	51	-0.2	-0.2	-0.3	-0.2	50	-	YES	YES	NO	-	YES
10	10_0042		School Classroom	G	S	57	52	56	51	58	52	57	51	-1	-0.9	-1.5	-1.2	50	-	NO	YES	NO	-	NO
10	10_0042		School Classroom	G	N	54	50	55	50	55	51	55	51	0.2	0.3	0.1	0.2	50	-	YES	YES	NO	-	YES
10	10_0043		School Classroom	G	E	58	54	58	53	59	54	59	54	-0.7	-0.5	-0.7	-0.6	50	-	YES	YES	NO	-	YES
10	10_0044		Residential	G	S	54	48	53	47	55	49	54	48	-0.8	-0.5	-1.3	-1	58	53	NO	NO	NO	NO	NO
10	10_0045		Residential	G	E	52	47	52	47	53	47	53	47	0	0.4	-0.5	0	57	52	NO	NO	NO	NO	NO
10	10_0046		Residential	G	E	54	48	54	49	55	49	54	49	-0.3	0.1	-0.9	-0.5	57	52	NO	NO	NO	NO	NO
10	10_0047		Residential	G	E	56	50	55	50	56	50	56	50	-0.2	0.2	-0.8	-0.3	57	52	NO	NO	NO	NO	NO
10	10_0048		Residential	G	E	52	47	52	48	53	48	53	48	0	0.4	-0.2	0.2	59	54	NO	NO	NO	NO	NO
10	10_0049		Residential	G	E	52	47	53	48	53	48	53	48	0.4	0.8	0	0.5	58	53	NO	NO	NO	NO	NO
10	10_0050		Residential	G	S	53	47	52	47	54	48	53	47	-0.3	0.1	-0.8	-0.3	57	52	NO	NO	NO	NO	NO
10	10_0051		Residential	G	S	52	47	52	47	53	47	52	47	-0.4	0	-0.9	-0.4	57	52	NO	NO	NO	NO	NO
10	10_0052		Residential	G	S	52	46	52	46	53	47	52	47	-0.4	0	-1	-0.5	57	52	NO	NO	NO	NO	NO
10	10_0053		Residential	G	S	52	46	52	46	53	47	52	47	-0.4	0	-0.9	-0.5	56	51	NO	NO	NO	NO	NO
10	10_0054		Residential	G	S	52	46	52	46	53	47	52	47	-0.4	0	-1	-0.4	56	51	NO	NO	NO	NO	NO
10	10_0055		Residential	G	S	52	46	52	46	53	47	52	47	-0.4	0	-1	-0.4	56	51	NO	NO	NO	NO	NO
10	10_0056		Residential	G	S	52	46	52	46	53	47	52	46	-0.4	0	-1	-0.6	56	51	NO	NO	NO	NO	NO
10	10_0057		Residential	G	S	52	46	52	46	53	47	52	46	-0.4	0	-1.1	-0.5	56	51	NO	NO	NO	NO	NO
10	10_0058		Residential	G	S	52	46	52	47	53	47	52	47	-0.3	0.2	-0.9	-0.4	56	51	NO	NO	NO	NO	NO
10	10_0059		Residential	G	S	53	46	52	46	54	47	52	47	-0.4	0	-1.1	-0.5	55	50	NO	NO	NO	NO	NO
10	10_0060		Residential	G	S	53	47	53	47	54	48	53	47	-0.4	0	-1	-0.5	55	50	NO	NO	NO	NO	NO
10	10_0061		Residential	G	S	53	47	52	47	54	48	53	47	-0.5	0	-1.2	-0.7	55	50	NO	NO	NO	NO	NO
10	10_0062		Residential	G	S	53	47	52	47	54	48	53	47	-0.5	0	-1	-0.6	55	50	NO	NO	NO	NO	NO
10	10_0063		Residential	G	S	53	46	52	46	54	47	52	47	-0.5	-0.1	-1.1	-0.7	55	50	NO	NO	NO	NO	NO
10	10_0064		Residential	G	E	52	47	52	47	53	48	53	48	0.1	0.5	-0.2	0.3	59	54	NO	NO	NO	NO	NO
10	10_0065		Residential	G	E	52	47	53	48	53	48	53	48	0.3	0.6	0	0.4	58	53	NO	NO	NO	NO	NO
10	10_0066		Residential	G	E	52	47	52	48	53	48	53	48	0.5	0.8	0.2	0.6	58	53	NO	NO	NO	NO	NO
10	10_0067		Residential	G	E	53	48</																	

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
11	11_0003		Residential	G	W	55	50	56	51	55	51	56	52	1	0.8	0.9	0.8	55	50	NO	NO	NO	NO	NO	
11	11_0004		Residential	G	NW	55	50	55	51	55	51	55	51	0.3	0.2	0.4	0.3	55	50	NO	NO	NO	NO	NO	
11	11_0004		Residential	G	SW	54	49	55	50	54	50	55	51	1.1	1	0.9	1	55	50	NO	NO	NO	NO	YES	
11	11_0005		Residential	G	NW	56	52	54	50	56	52	55	51	-1.3	-1.4	-1.1	-1.2	55	50	NO	NO	NO	NO	NO	
11	11_0006		Residential	G	NW	55	51	54	50	55	51	54	50	-0.9	-1.1	-0.9	-0.9	55	50	NO	NO	NO	NO	NO	
11	11_0007		Residential	G	NW	54	50	54	50	54	50	54	50	-0.2	-0.4	-0.1	-0.3	55	50	NO	NO	NO	NO	NO	
11	11_0008		Residential	G	NE	57	53	54	50	57	53	54	50	-3.2	-3.2	-2.9	-2.9	55	50	NO	NO	NO	NO	NO	
11	11_0009		Residential	G	NE	57	53	54	50	57	53	54	50	-3.1	-3.2	-2.9	-3	55	50	NO	NO	NO	NO	NO	
11	11_0010		Residential	G	NE	57	53	54	50	57	53	54	50	-3.1	-3.2	-2.9	-3	55	50	NO	NO	NO	NO	NO	
11	11_0011		Residential	G	NE	57	53	54	50	57	53	54	50	-3.2	-3.1	-2.9	-2.9	55	50	NO	NO	NO	NO	NO	
11	11_0012		Residential	G	NE	57	53	54	50	57	53	54	50	-3.1	-3.2	-2.9	-2.9	55	50	NO	NO	NO	NO	NO	
11	11_0013		Residential	G	SW	52	47	53	48	52	48	53	49	1	1	1	1	55	50	NO	NO	NO	NO	NO	
11	11_0014		Residential	G	SW	52	48	53	49	52	48	54	49	1.2	1.3	1.2	1.3	55	50	NO	NO	NO	NO	NO	
11	11_0015		Residential	G	NE	55	51	52	48	56	52	53	49	-3.2	-3.1	-2.9	-2.9	55	50	NO	NO	NO	NO	NO	
11	11_0015		Residential	1	NW	55	51	55	51	56	52	56	51	-0.2	-0.3	-0.1	-0.2	55	50	NO	NO	NO	NO	NO	
11	11_0016		Residential	G	SW	51	47	53	48	52	48	53	49	1.3	1.3	1.3	1.3	55	50	NO	NO	NO	NO	NO	
11	11_0017		Residential	G	NW	53	49	54	49	54	50	54	50	0.3	0.2	0.4	0.3	55	50	NO	NO	NO	NO	NO	
11	11_0018		Residential	G	SW	52	48	54	49	53	48	54	50	1.4	1.3	1.3	1.3	55	50	NO	NO	NO	NO	NO	
11	11_0019		Residential	G	SW	52	48	54	49	53	48	54	50	1.4	1.3	1.2	1.3	55	50	NO	NO	NO	NO	NO	
11	11_0020		Residential	G	SW	52	48	54	49	53	49	54	50	1.4	1.4	1.4	1.4	55	50	NO	NO	NO	NO	NO	
11	11_0021		Residential	G	SW	52	48	54	50	53	49	54	50	1.4	1.4	1.3	1.3	55	50	NO	NO	NO	NO	NO	
11	11_0022		Residential	G	SW	53	48	54	50	53	49	55	50	1.5	1.4	1.4	1.3	55	50	NO	NO	NO	NO	NO	
11	11_0023		Residential	G	SW	53	48	54	50	53	49	54	50	1.5	1.4	1.4	1.4	55	50	NO	NO	NO	NO	NO	
11	11_0024		Residential	G	SW	53	49	55	50	54	49	55	51	1.5	1.5	1.5	1.4	55	50	NO	NO	NO	NO	YES	
11	11_0025		Residential	G	SW	52	48	54	50	53	49	54	50	1.7	1.6	1.6	1.6	55	50	NO	NO	NO	NO	NO	
11	11_0026		Residential	G	SW	53	49	55	50	54	49	55	51	1.7	1.6	1.6	1.5	55	50	NO	NO	NO	NO	YES	
11	11_0027		Residential	G	SW	53	49	55	51	54	50	55	51	1.6	1.5	1.5	1.5	55	50	NO	NO	NO	NO	YES	
11	11_0028		Residential	G	NW	56	52	56	52	56	52	57	52	0.3	0.1	0.3	0.1	55	50	NO	NO	NO	NO	NO	
11	11_0029		Residential	G	NE	56	52	53	49	56	52	53	49	-3.3	-3.3	-3	-3.1	55	50	NO	NO	NO	NO	NO	
11	11_0029		Residential	1	NW	56	52	56	51	56	52	56	52	-0.6	-0.7	-0.4	-0.6	55	50	NO	NO	NO	NO	NO	
11	11_0030		Residential	G	NE	56	52	53	49	56	52	54	50	-2.9	-2.9	-2.7	-2.7	55	50	NO	NO	NO	NO	NO	
11	11_0031		Residential	G	NW	55	51	54	49	55	51	54	50	-1.1	-1.1	-1	-1	55	50	NO	NO	NO	NO	NO	
11	11_0032		Residential	G	NW	55	51	54	50	56	52	55	51	-1	-1.1	-0.9	-1	55	50	NO	NO	NO	NO	NO	
11	11_0033		Residential	G	NW	56	52	55	51	57	53	55	51	-1.7	-1.8	-1.5	-1.5	55	50	NO	NO	NO	NO	NO	
11	11_0034		Residential	G	NW	55	51	56	52	56	52	57	52	0.7	0.5	0.7	0.5	55	50	NO	NO	NO	NO	NO	
11	11_0034		Residential	G	SW	54	50	56	51	55	51	56	52	1.2	1.1	1.2	1.1	55	50	NO	NO	NO	NO	YES	
11	11_0035		Residential	G	W	55	51	56	51	55	51	56	52	0.8	0.6	0.8	0.6	55	50	NO	NO	NO	NO	NO	
11	11_0036		Residential	G	SW	55	50	56	51	55	51	56	52	1.1	1	1	0.9	55	50	NO	NO	NO	NO	YES	
11	11_0037		Residential	G	SW	55	51	56	52	55	51	56	52	1.2	1	1.1	1	55	50	NO	NO	NO	NO	YES	
11	11_0038		Residential	G	SW	54	50	55	51	55	51	56	52	1	0.9	1	0.8	55	50	NO	NO	NO	NO	YES	
11	11_0039		Residential	G	NW	57	53	57	53	58	54	58	53	0.1	-0.1	0.1	-0.1	55	50	NO	NO	NO	NO	YES	
11	11_0040		Residential	G	N	60	56	58	54	61	56	59	55	-1.9	-2.1	-1.8	-1.9	55	50	NO	YES	NO	NO	YES	

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
12	12_0023		Residential	G	N	57	52	53	49	57	53	54	49	-3.7	-3.7	-3.6	-3.8	55	50	NO	NO	NO	NO	NO	
12	12_0023		Residential	1	N	58	53	54	50	58	54	55	50	-3.7	-3.8	-3.5	-3.7	55	50	NO	NO	NO	NO	NO	
12	12_0024		Residential	G	N	57	52	53	49	57	53	54	49	-3.6	-3.7	-3.6	-3.6	55	50	NO	NO	NO	NO	NO	
12	12_0024		Residential	1	W	59	55	56	51	60	56	56	52	-3.8	-3.9	-3.7	-3.8	55	50	NO	NO	NO	NO	NO	
12	12_0025		Residential	G	N	56	51	52	48	56	52	53	48	-3.5	-3.6	-3.5	-3.5	55	50	NO	NO	NO	NO	NO	
12	12_0026		Residential	G	W	55	50	51	46	55	51	51	47	-4	-4	-4	-4	55	50	NO	NO	NO	NO	NO	
12	12_0027		Residential	G	W	55	51	51	47	56	52	52	48	-4.1	-4.1	-4	-4	55	50	NO	NO	NO	NO	NO	
12	12_0028		Residential	G	SW	55	51	52	47	56	52	52	48	-3.8	-3.7	-3.7	-3.7	55	50	NO	NO	NO	NO	NO	
12	12_0029		Residential	G	SW	55	51	51	47	56	51	52	48	-3.8	-3.8	-3.7	-3.7	55	50	NO	NO	NO	NO	NO	
12	12_0030		Residential	G	SW	55	51	52	47	56	52	52	48	-3.8	-3.7	-3.6	-3.7	55	50	NO	NO	NO	NO	NO	
12	12_0031		Residential	G	SW	56	52	52	48	56	52	53	48	-3.8	-3.8	-3.7	-3.8	55	50	NO	NO	NO	NO	NO	
12	12_0032		Residential	G	W	56	52	52	48	57	52	53	49	-3.6	-3.6	-3.5	-3.5	55	50	NO	NO	NO	NO	NO	
12	12_0033		Residential	G	SW	57	52	54	50	57	53	54	50	-2.7	-2.7	-2.7	-2.6	55	50	NO	NO	NO	NO	NO	
12	12_0034		Residential	G	SW	57	53	54	50	57	53	55	51	-2.7	-2.7	-2.7	-2.6	55	50	NO	NO	NO	NO	NO	
12	12_0035		Residential	G	SW	57	53	54	50	58	54	55	51	-3.1	-3.1	-2.9	-3	55	50	NO	NO	NO	NO	NO	
12	12_0036		Residential	G	SW	57	53	54	50	58	54	55	51	-2.8	-2.9	-2.8	-2.8	55	50	NO	NO	NO	NO	NO	
12	12_0037		Residential	G	SW	57	53	54	50	57	53	54	50	-3.1	-3	-2.9	-3	55	50	NO	NO	NO	NO	NO	
12	12_0037		Residential	1	SW	58	54	55	51	59	55	56	52	-3	-3	-2.8	-2.9	55	50	NO	NO	NO	NO	NO	
12	12_0038		Residential	G	S	56	52	53	49	56	52	54	49	-3	-3.1	-2.7	-2.8	55	50	NO	NO	NO	NO	NO	
12	12_0039		Residential	G	S	54	50	52	48	54	50	52	48	-2.4	-2.4	-2.2	-2.2	55	50	NO	NO	NO	NO	NO	
12	12_0040		Residential	G	NW	60	55	57	52	61	57	58	54	-3.1	-3.4	-2.8	-2.9	55	50	NO	NO	NO	NO	NO	
12	12_0040		Residential	1	NW	63	58	60	55	64	60	62	57	-2.7	-3.1	-2.2	-2.6	55	50	NO	NO	NO	NO	NO	
12	12_0041		Residential	G	NW	59	55	56	52	61	56	58	53	-3	-3.2	-2.7	-2.8	55	50	NO	NO	NO	NO	NO	
12	12_0041		Residential	1	NW	63	58	60	55	64	60	62	57	-2.8	-3.2	-2.3	-2.7	55	50	NO	NO	NO	NO	NO	
12	12_0042		Residential	G	NW	58	54	55	50	60	55	57	52	-3.5	-3.7	-2.9	-3.1	55	50	NO	NO	NO	NO	NO	
12	12_0042		Residential	1	NW	63	59	60	56	65	60	62	58	-3	-3.3	-2.6	-2.8	55	50	NO	NO	NO	NO	NO	
12	12_0042		Residential	1	S	62	58	57	53	63	58	58	54	-4.7	-4.6	-4.3	-4.4	55	50	NO	NO	NO	NO	YES	
12	12_0043		Residential	G	SW	60	56	55	51	61	57	57	52	-4.9	-5.1	-4.3	-4.4	55	50	NO	NO	NO	NO	NO	
12	12_0044		Residential	G	NW	63	59	58	54	64	60	60	55	-5.2	-5.3	-4.5	-4.6	55	50	NO	NO	NO	NO	NO	
12	12_0044		Residential	1	NW	67	63	61	57	68	63	63	58	-5.5	-5.6	-4.8	-4.9	55	50	NO	NO	NO	NO	NO	
12	12_0045		Residential	G	W	66	61	60	55	66	62	61	56	-6.1	-6.2	-5.5	-5.6	55	50	NO	NO	NO	NO	NO	
12	12_0046		Residential	G	W	66	62	59	55	66	62	60	56	-6.6	-6.6	-6	-6	55	50	NO	NO	NO	NO	NO	
12	12_0046		Residential	1	W	69	65	63	59	70	66	64	60	-6.7	-6.7	-6.1	-6.2	55	50	NO	NO	NO	NO	NO	
12	12_0047		Residential	G	W	68	64	62	57	69	65	63	58	-6.7	-6.7	-6.2	-6.2	55	50	NO	NO	NO	NO	NO	
12	12_0047		Residential	1	W	72	68	65	61	73	68	66	62	-7	-7	-6.6	-6.6	55	50	NO	NO	NO	NO	NO	
12	12_0048		Residential	G	W	67	63	61	57	68	64	62	58	-6.6	-6.5	-6.2	-6.2	55	50	NO	NO	NO	NO	NO	
12	12_0048		Residential	1	W	72	67	65	60	72	68	66	61	-7	-7	-6.5	-6.5	55	50	NO	NO	NO	NO	NO	
12	12_0049		Residential	G	W	72	68	66	62	72	68	67	62	-6.1	-6.1	-5.8	-5.8	55	50	NO	NO	NO	NO	NO	
12	12_0049		Residential	G	W	68	64	63	59	69	64	64	60	-4.7	-4.6	-4.4	-4.5	55	50	NO	NO	NO	NO	YES	
12	12_0050		Residential	G	S	58	54	53	49	59	54	54	50	-4.8	-4.8	-4.5	-4.5	55	50	NO	NO	NO	NO	NO	
12	12_0051		Residential	G	W	58	54	53	49	58	54	54	50	-4.6	-4.6	-4.4	-4.4	55	50	NO	NO	NO	NO	NO	
12	12_0052		Residential	G	S	59	54	54	49	59	55	54	50	-5.1	-5	-4.8	-4.8	55	50	NO	NO	NO	NO	NO	

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
12	12_0077		Residential	1	W	61	57	58	53	62	58	59	55	-3.5	-3.7	-3	-3.3	55	50	NO	YES	NO	NO	YES	
12	12_0078		Residential	G	W	59	55	55	50	60	56	56	51	-4.6	-4.6	-4.1	-4.2	55	50	NO	NO	NO	NO	NO	
12	12_0078		Residential	1	W	61	57	58	53	62	58	59	54	-3.8	-3.9	-3.4	-3.5	55	50	NO	NO	NO	NO	YES	
12	12_0079		Residential	G	SW	59	54	54	50	59	55	55	51	-4.5	-4.4	-4.2	-4.2	55	50	NO	NO	NO	NO	NO	
12	12_0079		Residential	1	SW	61	57	57	53	62	58	58	54	-3.9	-4	-3.5	-3.7	55	50	NO	NO	NO	NO	YES	
12	12_0080		Residential	G	SW	58	54	54	50	59	55	55	51	-4.4	-4.4	-4.1	-4.1	55	50	NO	NO	NO	NO	NO	
12	12_0080		Residential	1	SW	61	57	57	53	62	58	58	54	-3.9	-4	-3.6	-3.8	55	50	NO	NO	NO	NO	YES	
12	12_0081		Residential	G	W	59	55	55	51	60	55	56	52	-3.8	-3.9	-3.6	-3.6	55	50	NO	NO	NO	NO	NO	
12	12_0081		Residential	1	W	61	57	57	53	62	58	58	54	-3.8	-3.9	-3.6	-3.7	55	50	NO	NO	NO	NO	YES	
12	12_0082		Residential	G	W	58	54	53	49	58	54	54	50	-4.9	-4.8	-4.6	-4.6	55	50	NO	NO	NO	NO	NO	
12	12_0083		Residential	G	W	58	54	55	51	59	55	55	51	-3.6	-3.6	-3.5	-3.4	55	50	NO	NO	NO	NO	NO	
12	12_0083		Residential	1	W	61	56	57	53	61	57	58	54	-3.7	-3.7	-3.5	-3.5	55	50	NO	NO	NO	NO	NO	
12	12_0084		Residential	G	W	57	53	53	49	58	53	54	49	-4.2	-4.1	-3.9	-4	55	50	NO	NO	NO	NO	NO	
12	12_0085		Residential	G	SW	58	54	54	50	59	55	55	50	-4.7	-4.7	-4.4	-4.3	55	50	NO	NO	NO	NO	NO	
12	12_0086		Residential	G	W	54	49	50	46	54	50	51	46	-3.9	-3.8	-3.8	-3.7	55	50	NO	NO	NO	NO	NO	
12	12_0086		Residential	1	W	56	52	53	48	57	53	53	49	-3.7	-3.8	-3.7	-3.7	55	50	NO	NO	NO	NO	NO	
12	12_0087		Residential	G	SW	54	49	50	46	54	50	51	46	-3.5	-3.5	-3.4	-3.4	55	50	NO	NO	NO	NO	NO	
12	12_0088		Residential	G	W	53	48	49	45	53	49	50	46	-3.2	-3.2	-3.2	-3.1	55	50	NO	NO	NO	NO	NO	
12	12_0089		Residential	G	W	52	48	49	45	53	49	49	45	-3.5	-3.5	-3.5	-3.4	55	50	NO	NO	NO	NO	NO	
12	12_0090		Residential	G	SW	52	48	49	45	53	49	50	45	-3.6	-3.7	-3.5	-3.6	55	50	NO	NO	NO	NO	NO	
12	12_0091		Residential	G	SW	52	48	49	45	53	49	50	46	-3.1	-3.1	-3	-3	55	50	NO	NO	NO	NO	NO	
12	12_0091		Residential	1	SW	55	51	52	48	56	51	53	49	-2.5	-2.6	-2.5	-2.5	55	50	NO	NO	NO	NO	NO	
12	12_0092		Residential	G	N	63	59	56	52	63	59	57	53	-7.1	-7	-6.6	-6.6	55	50	NO	NO	NO	NO	NO	
12	12_0092		Residential	1	N	65	60	58	54	65	61	59	55	-6.7	-6.6	-6.2	-6.3	55	50	NO	NO	NO	NO	NO	
12	12_0093		Residential	G	S	61	57	57	53	62	57	58	53	-4.2	-4.2	-3.9	-4	55	50	NO	NO	NO	NO	NO	
12	12_0094		Residential	G	SW	60	56	56	52	61	56	57	53	-4.1	-4.1	-3.8	-3.8	55	50	NO	NO	NO	NO	NO	
12	12_0094		Residential	1	SW	61	57	58	53	62	58	58	54	-3.9	-3.9	-3.7	-3.7	55	50	NO	NO	NO	NO	YES	
12	12_0095		Residential	G	S	57	53	54	50	57	53	55	51	-2.7	-2.8	-2.6	-2.7	55	50	NO	NO	NO	NO	NO	
12	12_0096		Residential	G	SW	58	54	55	51	59	55	56	52	-3.4	-3.5	-3.2	-3.3	55	50	NO	NO	NO	NO	NO	
12	12_0097		Residential	G	N	54	49	51	46	54	50	52	47	-2.8	-2.9	-2.6	-2.8	55	50	NO	NO	NO	NO	NO	
12	12_0098		Residential	G	W	53	49	50	46	54	50	51	47	-3.3	-3.2	-3.4	-3.3	55	50	NO	NO	NO	NO	NO	
12	12_0099		Residential	G	N	53	48	50	45	54	49	51	46	-3	-3.1	-3.1	-3	55	50	NO	NO	NO	NO	NO	
12	12_0099		Residential	1	W	58	54	55	51	59	55	56	51	-3.4	-3.4	-3.3	-3.4	55	50	NO	NO	NO	NO	NO	
12	12_0100		Residential	G	W	53	49	50	46	54	50	51	47	-3.2	-3.2	-3.2	-3.2	55	50	NO	NO	NO	NO	NO	
12	12_0100		Residential	1	W	58	54	55	50	59	54	56	51	-3.3	-3.4	-3.2	-3.3	55	50	NO	NO	NO	NO	NO	
12	12_0101		Residential	G	W	54	49	50	45	54	50	51	46	-3.9	-4	-3.8	-3.9	55	50	NO	NO	NO	NO	NO	
12	12_0102		Residential	G	W	54	50	50	46	54	50	51	47	-3.4	-3.5	-3.4	-3.4	55	50	NO	NO	NO	NO	NO	
12	12_0103		Residential	G	N	55	51	52	47	56	52	53	48	-3.7	-3.7	-3.5	-3.5	55	50	NO	NO	NO	NO	NO	
12	12_0104		Residential	G	N	53	48	50	45	54	49	50	46	-3.2	-3.2	-3.3	-3.2	55	50	NO	NO	NO	NO	NO	
12	12_0105		Residential	G	W	53	48	49	45	53	49	50	45	-3.8	-3.8	-3.7	-3.7	55	50	NO	NO	NO	NO	NO	
12	12_0106		Residential	G	W	54	49	50	46	54	50	50	46	-3.8	-3.7	-3.7	-3.6	55	50	NO	NO	NO	NO	NO	
12	12_0107		Residential	G	N	56	51	53	49	56	52	54	49	-2.7	-2.8	-2.8	-2.8	55	50	NO					

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
12	12_0135		Residential	1	W	55	51	53	49	56	52	53	49	-2.5	-2.5	-2.5	-2.5	55	50	NO	NO	NO	NO	NO
13	13_0001		Residential	G	SE	52	48	54	50	53	49	55	51	2	1.9	1.9	2	55	50	NO	NO	NO	NO	YES
13	13_0002		Residential	G	E	53	49	55	51	53	49	55	51	2.2	2.2	2.1	2.1	55	50	NO	NO	NO	NO	YES
13	13_0003		Residential	G	E	56	52	58	54	57	53	59	55	2	2	2	2.1	55	50	NO	YES	NO	NO	YES
13	13_0003		Residential	1	E	58	54	60	56	58	54	60	56	1.9	2	2	2	55	50	YES	YES	NO	NO	YES
13	13_0004		Residential	G	S	57	53	60	56	58	54	60	56	2.3	2.3	2.4	2.5	55	50	YES	YES	NO	NO	YES
13	13_0004		Residential	1	E	58	54	60	56	58	54	61	57	2.3	2.4	2.4	2.4	55	50	YES	YES	NO	NO	YES
13	13_0005		Residential	G	E	61	57	64	60	61	57	64	60	2.9	3.1	3.1	3.2	55	50	YES	YES	NO	YES	YES
13	13_0006		Residential	G	SE	61	57	66	62	62	58	66	62	4.3	4.5	4.4	4.6	55	50	YES	YES	YES	YES	YES
13	13_0007		Residential	G	E	60	56	64	60	60	56	65	61	4.6	4.7	4.7	4.8	55	50	YES	YES	NO	YES	YES
13	13_0008		Residential	G	E	58	53	60	56	58	54	61	57	2.7	2.7	2.8	2.9	55	50	YES	YES	NO	NO	YES
13	13_0009		Residential	G	E	53	49	57	52	54	49	57	53	3.5	3.6	3.4	3.5	55	50	NO	NO	NO	NO	YES
13	13_0010		Residential	G	SE	57	53	59	55	58	54	59	55	1.5	1.4	1.5	1.6	55	50	NO	YES	NO	NO	YES
13	13_0011		Residential	G	E	56	51	57	53	56	52	58	53	1.5	1.4	1.4	1.4	55	50	NO	NO	NO	NO	YES
13	13_0012		Residential	G	E	54	50	55	51	55	51	56	52	1	1	1	0.9	55	50	NO	NO	NO	NO	YES
13	13_0013		Residential	G	SE	56	52	57	53	57	53	58	53	0.8	0.7	0.6	0.7	55	50	NO	NO	NO	NO	YES
13	13_0014		Residential	G	SE	57	53	58	54	58	53	58	54	0.8	0.8	0.8	0.8	55	50	NO	NO	NO	NO	YES
13	13_0015		Residential	G	SE	56	52	59	55	57	53	60	56	2.9	3	3	3.2	55	50	YES	YES	NO	NO	YES
13	13_0016		Residential	G	E	58	54	60	56	59	55	61	57	2.2	2.2	2	2.2	55	50	YES	YES	NO	NO	YES
13	13_0016		Residential	1	E	59	55	61	57	60	55	62	58	2.6	2.6	2.4	2.5	55	50	YES	YES	NO	NO	YES
13	13_0017		Residential	G	S	58	53	64	60	58	54	65	61	6.8	7	6.9	7.1	55	50	YES	YES	YES	YES	YES
13	13_0018		Residential	G	E	58	53	57	53	59	54	58	54	-0.5	-0.5	-0.7	-0.6	55	50	NO	NO	NO	NO	YES
13	13_0019		Residential	G	E	58	53	57	52	59	54	58	53	-1.2	-1.2	-1.4	-1.3	55	50	NO	NO	NO	NO	NO
13	13_0020		Residential	G	E	57	53	57	53	58	54	58	54	-0.1	-0.1	-0.3	-0.2	55	50	NO	NO	NO	NO	YES
13	13_0021		Residential	G	E	57	53	56	52	58	54	57	53	-1	-0.9	-1.1	-1.1	55	50	NO	NO	NO	NO	NO
13	13_0022		Residential	G	E	58	53	56	52	59	54	57	53	-1.7	-1.6	-1.7	-1.6	55	50	NO	NO	NO	NO	NO
13	13_0023		Residential	G	E	58	53	56	52	59	54	57	53	-1.7	-1.7	-1.8	-1.7	55	50	NO	NO	NO	NO	NO
13	13_0024		Residential	G	E	58	53	57	52	60	55	58	53	-1.5	-1.6	-1.7	-1.6	55	50	NO	NO	NO	NO	NO
13	13_0025		Residential	G	N	59	53	57	51	62	56	60	54	-1.9	-1.7	-2	-1.9	55	50	NO	NO	NO	NO	NO
13	13_0026		Residential	G	N	59	54	57	52	61	56	59	54	-1.8	-1.9	-2	-2	55	50	NO	NO	NO	NO	YES
13	13_0027		Residential	G	N	65	59	63	57	69	63	66	60	-2.2	-2.1	-2.4	-2.3	55	50	NO	NO	NO	NO	NO
13	13_0027		Residential	G	E	62	57	60	55	65	60	63	58	-1.8	-1.7	-2	-1.9	55	50	YES	YES	NO	NO	YES
13	13_0028		Residential	G	E	57	53	57	53	58	54	58	53	-0.4	-0.4	-0.6	-0.6	55	50	NO	NO	NO	NO	NO
13	13_0029		Residential	G	E	57	53	56	51	59	54	57	52	-1.3	-1.4	-1.5	-1.5	55	50	NO	NO	NO	NO	NO
13	13_0030		Residential	G	NE	58	53	56	51	59	54	57	52	-1.6	-1.7	-1.6	-1.7	55	50	NO	NO	NO	NO	NO
13	13_0031		Residential	G	NW	64	58	62	56	67	62	65	59	-2.2	-2.2	-2.3	-2.3	55	50	NO	NO	NO	NO	NO
14	14_0001		Residential	G	E	58	54	57	52	59	54	57	53	-1.3	-1.5	-1.5	-1.8	60	55	NO	NO	NO	NO	NO
14	14_0002		Residential	G	SE	64	60	64	60	65	61	64	60	-0.3	-0.8	-0.7	-1.3	60	55	NO	YES	NO	YES	YES
15	15_0001		Residential	G	E	61	57	60	56	62	58	61	57	-1.1	-1	-1.1	-1	60	55	NO	NO	NO	NO	NO
15	15_0002		Residential	G	SE	67	63	64	60	67	64	65	61	-2.3	-2.8	-2.5	-3.1	60	55	YES	YES	YES	YES	YES
15	15_0002		Residential	1	SW	68	63	67	62	68	63	67	62	-0.9	-1.1	-1.1	-1.3	60	55	YES	YES	YES	YES	YES
15	15_0003		Residential	G	SW	65	59	64	59	65	60	64	59	-0.4	-0.7	-0.7	-1	60	55	NO	NO	NO	NO	YES
15	15_0004		Residential	G	SW	66	61	66	60	66	61	66	60</											

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night							
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)								
																				Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
15	15_0025		Residential	G	SW	61	57	59	55	61	57	60	56	-1.2	-1.4	-1.4	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0025		Residential	1	SW	63	59	62	57	64	60	62	58	-1.5	-1.7	-1.7	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0026		Residential	G	SE	58	54	56	52	58	55	57	53	-1.4	-1.7	-1.7	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0026		Residential	1	SE	62	58	60	56	62	58	60	56	-1.7	-1.9	-1.9	-2	60	55	NO	NO	NO	NO	NO
15	15_0027		Residential	G	SE	59	55	57	53	60	56	58	54	-1.9	-2	-2	-2.3	60	55	NO	NO	NO	NO	NO
15	15_0027		Residential	1	SE	62	58	60	56	63	59	61	57	-1.8	-2	-1.9	-2.2	60	55	NO	NO	NO	NO	NO
15	15_0028		Residential	G	SE	59	55	57	53	60	56	58	54	-1.4	-1.6	-1.5	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0028		Residential	1	SE	62	58	60	56	63	59	61	57	-1.8	-2	-2	-2.2	60	55	NO	NO	NO	NO	NO
15	15_0029		Residential	G	S	59	55	57	53	60	56	58	54	-1.5	-1.7	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0029		Residential	1	S	63	59	61	57	64	60	62	58	-1.9	-1.9	-1.9	-2.2	60	55	NO	NO	NO	NO	NO
15	15_0030		Residential	G	E	58	54	56	52	59	55	57	53	-1.4	-1.6	-1.6	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0031		Residential	G	E	59	55	57	53	60	56	58	54	-1.6	-1.8	-1.8	-2	60	55	NO	NO	NO	NO	NO
15	15_0032		Residential	G	SW	53	49	52	47	54	50	52	48	-1.2	-1.4	-1.4	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0032		Residential	1	SW	58	54	57	53	59	55	57	53	-1.5	-1.7	-1.7	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0033		Residential	G	NW	50	45	50	44	50	45	50	44	0	-0.4	-0.3	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0033		Residential	1	SW	54	49	52	48	54	50	53	48	-1.2	-1.5	-1.5	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0034		Residential	G	NW	50	45	51	45	51	45	50	45	0.1	-0.3	-0.2	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0034		Residential	1	NW	53	48	52	47	53	48	52	47	-0.2	-0.7	-0.6	-1.1	60	55	NO	NO	NO	NO	NO
15	15_0035		Residential	G	SW	53	48	53	47	54	49	53	47	-0.7	-1.1	-1.1	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0035		Residential	1	SW	57	53	56	51	58	53	57	52	-0.8	-1.2	-1.1	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0036		Residential	G	SW	53	48	52	46	53	48	52	47	-0.9	-1.2	-1.1	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0036		Residential	1	SW	56	51	55	49	56	51	55	50	-1	-1.4	-1.3	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0037		Residential	G	SW	56	50	55	50	56	51	55	49	-0.5	-0.8	-0.9	-1.2	60	55	NO	NO	NO	NO	NO
15	15_0037		Residential	1	SW	59	54	58	53	59	55	58	53	-0.8	-1	-1	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0038		Residential	G	E	52	48	50	46	52	48	50	46	-1.7	-2	-1.9	-2.1	60	55	NO	NO	NO	NO	NO
15	15_0038		Residential	1	SW	56	52	55	51	57	53	56	51	-1.2	-1.4	-1.5	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0039		Residential	G	SE	51	46	49	44	51	47	50	45	-1.3	-1.6	-1.5	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0039		Residential	1	SE	53	48	52	47	53	49	52	47	-1.1	-1.5	-1.4	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0040		Residential	G	SW	53	48	52	47	53	49	52	47	-1	-1.3	-1.3	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0040		Residential	1	SW	57	52	56	51	57	53	56	51	-0.9	-1.2	-1.2	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0041		Residential	G	SW	52	48	52	47	53	49	52	47	-0.8	-1.2	-1.2	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0041		Residential	1	SW	55	51	54	49	55	51	54	50	-1	-1.4	-1.3	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0042		Residential	G	S	55	50	55	49	55	50	55	49	-0.2	-0.5	-0.5	-1	60	55	NO	NO	NO	NO	NO
15	15_0042		Residential	1	S	58	53	57	52	58	53	57	52	-0.3	-0.7	-0.6	-1.1	60	55	NO	NO	NO	NO	NO
15	15_0043		Residential	G	S	56	51	56	51	57	52	56	51	-0.5	-0.8	-0.8	-1.1	60	55	NO	NO	NO	NO	NO
15	15_0043		Residential	1	S	59	54	58	53	59	54	58	53	-0.4	-0.8	-0.8	-1.2	60	55	NO	NO	NO	NO	NO
15	15_0044		Residential	G	S	58	53	57	52	58	53	57	52	-0.4	-0.9	-0.9	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0044		Residential	1	S	59	54	59	53	60	55	59	53	-0.7	-1.1	-1.1	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0045		Residential	G	SW	57	53	56	51	58	53	56	52	-0.9	-1.3	-1.3	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0045		Residential	1	SW	59	54	58	53	59	55	58	53	-1	-1.3	-1.3	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0046		Residential	G	SW	57	52	56	51	57	53	56	51	-1.1	-1.3	-1.4	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0046		Residential	1	SW	59	54	58	52	59	54	58	53	-1	-1.3	-1.3	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0047		Residential</																					

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
15	15_0072		Residential	G	NW	59	55	56	52	60	56	57	53	-2.8	-2.7	-2.7	-2.7	60	55	NO	NO	NO	NO	NO	
15	15_0073		Residential	G	NE	61	57	58	53	62	58	58	54	-3.2	-3.2	-3.2	-3.2	60	55	NO	NO	NO	NO	NO	
15	15_0074		Residential	G	E	63	59	56	52	64	60	57	53	-6.9	-6.9	-6.9	-6.9	60	55	NO	NO	NO	NO	NO	
15	15_0075		Residential	G	E	67	63	61	57	68	64	62	58	-6.3	-6.2	-6.2	-6.1	60	55	NO	NO	NO	NO	YES	
15	15_0076		Residential	G	E	65	61	60	55	66	62	61	56	-5.5	-5.5	-5.4	-5.5	60	55	NO	NO	NO	NO	YES	
15	15_0076		Residential	1	E	68	63	62	58	69	64	63	59	-5.5	-5.4	-5.4	-5.4	60	55	NO	NO	NO	NO	YES	
15	15_0077		Residential	G	E	66	61	60	56	67	62	61	57	-5.3	-5.2	-5.1	-5.2	60	55	NO	NO	NO	NO	YES	
15	15_0078		Residential	G	E	66	62	62	58	67	63	63	59	-3.7	-3.8	-3.7	-3.7	60	55	NO	NO	NO	NO	YES	
15	15_0078		Residential	1	E	68	63	64	60	69	64	65	61	-3.5	-3.3	-3.3	-3.3	60	55	YES	YES	NO	NO	YES	
15	15_0079		Residential	G	E	66	61	63	59	67	62	64	60	-2.7	-2.6	-2.6	-2.6	60	55	NO	YES	NO	NO	YES	
15	15_0080		Residential	G	E	63	58	61	57	64	59	62	58	-1.6	-1.6	-1.5	-1.6	60	55	NO	NO	NO	NO	YES	
15	15_0080		Residential	1	E	66	61	64	59	67	62	65	60	-2	-2	-1.9	-2	60	55	YES	YES	NO	NO	YES	
15	15_0081		Residential	G	E	64	60	63	58	65	61	64	59	-1.1	-1.1	-1	-1.1	60	55	NO	NO	NO	NO	YES	
15	15_0082		Residential	G	E	63	59	62	58	64	60	63	59	-0.9	-1	-0.8	-0.9	60	55	NO	NO	NO	NO	YES	
15	15_0083		Residential	G	E	63	58	62	58	63	59	63	59	-1	-0.9	-0.8	-0.9	60	55	NO	NO	NO	NO	YES	
15	15_0084		Residential	G	E	63	59	62	58	64	60	63	59	-1	-1.1	-0.9	-1	60	55	NO	NO	NO	NO	YES	
15	15_0085		Residential	G	E	62	58	61	57	63	59	62	58	-1.2	-1.1	-1	-1.2	60	55	NO	NO	NO	NO	YES	
15	15_0086		Residential	G	E	63	59	62	58	64	60	63	59	-1	-1	-0.9	-1	60	55	NO	NO	NO	NO	YES	
15	15_0087		Residential	G	E	64	60	63	59	65	61	64	60	-1	-1	-0.8	-1	60	55	NO	YES	NO	NO	YES	
15	15_0088		Residential	G	E	64	60	64	60	65	61	65	61	-0.6	-0.5	-0.6	-0.6	60	55	YES	YES	NO	NO	YES	
15	15_0088		Residential	1	E	68	64	68	63	69	65	69	65	-0.7	-0.6	-0.6	-0.5	60	55	YES	YES	YES	YES	YES	
15	15_0089		Residential	G	NE	66	62	66	62	67	63	67	63	-0.5	-0.5	-0.5	-0.5	60	55	YES	YES	NO	NO	YES	
15	15_0090		Residential	G	E	67	63	66	62	68	64	67	63	-0.5	-0.4	-0.4	-0.4	60	55	NO	NO	NO	NO	NO	
15	15_0091		Residential	G	S	61	57	60	56	62	58	61	57	-1.2	-1.2	-1.1	-1.2	60	55	NO	NO	NO	NO	NO	
15	15_0092		Residential	G	NE	61	57	60	56	62	58	61	57	-1.1	-1.1	-1	-1	60	55	NO	NO	NO	NO	NO	
15	15_0093		Residential	G	S	60	56	59	55	61	57	60	56	-1.3	-1.3	-1.2	-1.3	60	55	NO	NO	NO	NO	NO	
15	15_0094		Residential	G	NE	60	56	59	55	61	57	60	56	-1.2	-1.2	-1.1	-1.2	60	55	NO	NO	NO	NO	NO	
15	15_0095		Residential	G	E	59	55	58	54	60	56	59	55	-1.4	-1.3	-1.3	-1.3	60	55	NO	NO	NO	NO	NO	
15	15_0096		Residential	G	E	58	54	57	53	59	55	58	54	-1.4	-1.5	-1.3	-1.4	60	55	NO	NO	NO	NO	NO	
15	15_0097		Residential	G	E	59	55	58	54	60	56	59	55	-1.3	-1.3	-1.2	-1.2	60	55	NO	NO	NO	NO	NO	
15	15_0098		Residential	G	E	58	54	57	53	59	55	58	54	-1.4	-1.3	-1.2	-1.3	60	55	NO	NO	NO	NO	NO	
15	15_0099		Residential	G	N	59	54	57	53	59	55	58	54	-1.2	-1.3	-1.1	-1.2	60	55	NO	NO	NO	NO	NO	
15	15_0100		Residential	G	N	59	54	57	53	60	55	58	54	-1.5	-1.4	-1.4	-1.4	60	55	NO	NO	NO	NO	NO	
15	15_0101		Residential	G	N	59	55	58	53	60	56	59	54	-1.4	-1.4	-1.4	-1.4	60	55	NO	NO	NO	NO	NO	
15	15_0102		Residential	G	E	59	55	57	53	60	56	58	54	-1.5	-1.6	-1.4	-1.4	60	55	NO	NO	NO	NO	NO	
15	15_0103		Residential	G	NE	58	54	56	52	59	55	57	53	-2.1	-2.1	-2	-2.1	60	55	NO	NO	NO	NO	NO	
15	15_0104		Residential	G	E	56	52	54	50	57	53	55	51	-2	-2	-2	-2	60	55	NO	NO	NO	NO	NO	
15	15_0104		Residential	1	NE	59	55	57	53	60	56	58	54	-1.9	-1.8	-1.9	-1.8	60	55	NO	NO	NO	NO	NO	
15	15_0105		Residential	G	NE	58	54	56	52	59	55	57	53	-2.2	-2.2	-2.1	-2.1	60	55	NO	NO	NO	NO	NO	
15	15_0106		Residential	G	E	59	54	56	52	59	55	57	53	-2.3	-2.3	-2.3	-2.3	60	55	NO	NO	NO	NO	NO	
15	15_0107		Residential	G	NE	59	55	57	52	60	56	58	53	-2.7	-2.6	-2.6	-2.6	60	55	NO	NO	NO	NO	NO	
15	15_0108		Residential	G	NE	60	56	56	52	61	57	57	53	-4	-4.1	-4	-4.1	60	55	NO	NO	NO	NO	NO	
15	15_0109		Residential																						

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h
15	15_0132		Residential	1	NE	59	55	57	53	60	56	58	54	-1.7	-1.6	-1.7	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0133		Residential	G	NE	57	53	55	51	58	54	56	52	-1.5	-1.4	-1.3	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0134		Residential	G	E	55	51	53	49	56	52	54	50	-1.4	-1.4	-1.3	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0134		Residential	1	E	57	53	55	51	58	53	56	52	-1.3	-1.4	-1.3	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0135		Residential	G	E	55	51	54	50	56	52	55	51	-1.3	-1.4	-1.3	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0136		Residential	G	E	55	51	54	49	56	52	55	50	-1.3	-1.4	-1.3	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0137		Residential	G	E	55	51	54	49	56	52	55	50	-1.4	-1.4	-1.3	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0138		Residential	G	E	55	51	54	49	56	52	54	50	-1.3	-1.4	-1.3	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0139		Residential	G	E	55	51	54	49	56	52	55	50	-1.5	-1.4	-1.3	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0140		Residential	G	E	55	51	54	50	56	52	55	51	-1.5	-1.4	-1.3	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0141		Residential	G	E	55	51	54	50	56	52	55	51	-1.4	-1.4	-1.3	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0142		Residential	G	NE	56	52	55	50	57	53	56	51	-1.3	-1.3	-1.3	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0143		Residential	G	NE	56	52	55	50	57	53	56	51	-1.3	-1.3	-1.3	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0144		Residential	G	NE	56	52	55	51	57	53	56	52	-1.5	-1.5	-1.4	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0145		Residential	G	E	56	52	54	50	57	52	55	51	-1.4	-1.5	-1.4	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0146		Residential	G	E	57	53	56	51	58	53	57	52	-1	-1.1	-1.1	-1	60	55	NO	NO	NO	NO	NO
15	15_0146		Residential	1	E	60	55	59	54	60	56	59	55	-0.9	-0.8	-0.9	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0147		Residential	G	N	57	52	56	52	57	53	57	53	-0.3	-0.3	-0.3	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0148		Residential	G	E	58	54	57	53	59	55	58	54	-1.1	-1.1	-1	-1	60	55	NO	NO	NO	NO	NO
15	15_0148		Residential	1	E	60	56	59	55	61	57	60	56	-1	-0.9	-0.9	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0149		Residential	G	N	57	52	57	52	58	53	57	53	-0.3	-0.3	-0.4	-0.3	60	55	NO	NO	NO	NO	NO
15	15_0150		Residential	G	NE	57	53	56	52	58	54	57	53	-1.4	-1.4	-1.4	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0151		Residential	G	E	56	52	55	51	57	53	56	52	-1.5	-1.5	-1.4	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0151		Residential	1	E	58	54	57	53	59	55	58	54	-1.3	-1.3	-1.2	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0152		Residential	G	S	55	51	54	49	56	52	55	50	-1.6	-1.6	-1.5	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0152		Residential	1	S	57	53	56	52	58	54	57	53	-1.3	-1.3	-1.2	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0153		Residential	G	E	56	52	55	51	57	53	56	52	-1.3	-1.4	-1.2	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0154		Residential	G	E	56	52	55	51	57	53	56	52	-1.5	-1.5	-1.4	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0155		Residential	G	E	56	52	54	50	57	53	55	51	-1.5	-1.5	-1.4	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0156		Residential	G	NE	56	52	54	50	57	53	55	51	-1.5	-1.5	-1.4	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0157		Residential	G	NE	56	52	55	51	57	53	56	52	-1.3	-1.3	-1.2	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0158		Residential	G	NE	60	55	58	54	61	56	59	55	-1.2	-1.2	-1.1	-1.1	60	55	NO	NO	NO	NO	NO
15	15_0159		Residential	G	NE	59	55	58	54	60	56	59	55	-1.2	-1.3	-1.2	-1.2	60	55	NO	NO	NO	NO	NO
15	15_0160		Residential	G	S	59	55	58	53	60	56	59	54	-1.5	-1.5	-1.4	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0160		Residential	1	E	62	58	61	57	63	59	62	58	-1.1	-1	-1	-1	60	55	NO	NO	NO	NO	NO
15	15_0161		Residential	G	S	59	54	57	53	59	55	58	54	-1.5	-1.5	-1.4	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0161		Residential	1	S	60	56	59	54	61	57	60	55	-1.3	-1.3	-1.2	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0162		Residential	G	E	61	56	59	55	61	57	60	56	-1.2	-1.2	-1.1	-1.2	60	55	NO	NO	NO	NO	NO
15	15_0163		Residential	G	S	57	53	56	52	58	54	57	53	-1.2	-1.1	-1.1	-1.1	60	55	NO	NO	NO	NO	NO
15	15_0164		Residential	G	NE	59	55	58	53	60	55	58	54	-1.2	-1.3	-1.3	-1.3	60	55	NO	NO	NO	NO	NO
15	15_0165		Residential	G	E	60	56	59	55	61	57	60	56	-1.1	-1	-1	-1	60	55	NO	NO	NO	NO	NO
15	15_0166		Residential	G	N	56	50	55	50	56	51	55	50	-0.4	-0.4	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0167		Residential	G																				

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
				dB(A)	dB(A)			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day			Night	≥ 65dB LAeq,15h	
15	15_0196		Residential	1	NW	58	52	58	52	58	52	58	52	-0.3	-0.2	-0.6	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0197		Residential	G	NW	57	51	57	51	57	51	57	50	-0.2	-0.3	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0198		Residential	G	NW	57	51	57	51	57	51	56	50	-0.3	-0.3	-0.6	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0199		Residential	G	NW	57	51	57	50	57	51	56	50	-0.3	-0.3	-0.5	-0.5	60	55	NO	NO	NO	NO	NO
15	15_0200		Residential	G	NW	57	51	56	50	56	51	56	50	-0.3	-0.4	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0201		Residential	G	NW	55	49	54	48	55	49	54	48	-0.5	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0202		Residential	G	NW	55	49	55	49	55	49	54	48	-0.4	-0.4	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0203		Residential	G	NW	55	49	55	49	55	49	54	48	-0.4	-0.4	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0204		Residential	G	SW	55	50	54	49	55	50	54	49	-0.9	-1.1	-1.2	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0204		Residential	1	SW	57	52	56	51	57	53	56	51	-1	-1.3	-1.2	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0205		Residential	G	SW	55	50	54	49	55	51	54	49	-0.9	-1.2	-1.2	-1.5	60	55	NO	NO	NO	NO	NO
15	15_0206		Residential	G	SW	55	50	54	49	55	51	54	49	-1.1	-1.3	-1.3	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0206		Residential	1	SW	57	53	56	51	58	54	56	52	-1.4	-1.6	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0207		Residential	G	SW	55	50	54	49	55	51	54	49	-1	-1.3	-1.3	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0207		Residential	1	SW	57	53	56	52	58	54	56	52	-1.4	-1.5	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0208		Residential	G	SW	56	52	55	50	56	52	55	51	-1.2	-1.4	-1.5	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0208		Residential	1	SW	58	54	56	52	58	54	57	52	-1.4	-1.6	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0209		Residential	G	SW	57	53	56	51	58	54	56	52	-1.4	-1.6	-1.6	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0210		Residential	G	SW	57	53	56	51	58	54	56	52	-1.4	-1.6	-1.6	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0210		Residential	1	SW	58	54	57	52	59	55	57	53	-1.5	-1.7	-1.7	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0211		Residential	G	SW	56	52	55	51	57	53	56	51	-1.3	-1.6	-1.5	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0211		Residential	1	SW	58	54	57	52	59	55	57	53	-1.6	-1.8	-1.8	-2	60	55	NO	NO	NO	NO	NO
15	15_0212		Residential	G	SE	56	52	53	49	57	53	54	50	-3	-3.3	-3.1	-3.4	60	55	NO	NO	NO	NO	NO
15	15_0212		Residential	1	SE	60	56	57	53	61	57	58	54	-2.8	-2.9	-3	-3.1	60	55	NO	NO	NO	NO	NO
15	15_0213		Residential	G	SW	57	53	56	51	58	54	56	52	-1.6	-1.8	-1.7	-2	60	55	NO	NO	NO	NO	NO
15	15_0214		Residential	G	SW	57	53	55	51	57	53	56	52	-1.4	-1.6	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0215		Residential	G	SE	58	54	56	52	59	55	56	52	-2.1	-2.2	-2.3	-2.6	60	55	NO	NO	NO	NO	NO
15	15_0216		Residential	G	SE	57	53	55	51	58	54	56	52	-1.7	-1.8	-1.8	-2.1	60	55	NO	NO	NO	NO	NO
15	15_0216		Residential	1	SE	59	55	57	53	60	56	58	54	-2	-2.2	-2.2	-2.4	60	55	NO	NO	NO	NO	NO
15	15_0217		Residential	G	SE	57	53	55	51	57	53	56	51	-1.5	-1.7	-1.8	-2	60	55	NO	NO	NO	NO	NO
15	15_0217		Residential	1	SE	59	55	57	53	59	55	57	53	-1.8	-2	-2	-2.3	60	55	NO	NO	NO	NO	NO
15	15_0218		Residential	G	SE	56	52	55	51	57	53	55	51	-1.4	-1.6	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0218		Residential	1	SW	58	54	56	52	59	55	57	53	-1.5	-1.6	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0219		Residential	G	SW	53	49	52	47	54	50	52	48	-1.4	-1.6	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0219		Residential	1	SW	58	53	56	52	58	54	57	52	-1.4	-1.7	-1.7	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0220		Residential	G	SW	55	51	54	50	56	52	54	50	-1.2	-1.4	-1.4	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0220		Residential	1	SW	57	53	56	51	58	54	56	52	-1.4	-1.6	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0221		Residential	G	SW	52	48	51	46	53	48	51	47	-1.1	-1.4	-1.3	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0221		Residential	1	SE	57	53	56	51	58	54	56	52	-1.6	-1.8	-1.8	-2.1	60	55	NO	NO	NO	NO	NO
15	15_0222		Residential	G	SW	54	50	53	49	55	51	54	49	-1.1	-1.4	-1.3	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0222		Residential	1	SW	57	52	55	51	57	53	56	51	-1.2	-1.5	-1.5	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0223		Residential	G	SW	54	49	53	48	54	50	53	48	-1.2	-1.3	-1.5	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0223		Residential	1	SW	56	52	55	50	57	53	55	51	-1.										

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					Day	Night	
				Floor	Orientation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
15	15_0242		Residential	G	W	57	50	56	50	56	50	56	50	-0.3	-0.3	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0243		Residential	G	SW	55	49	55	48	55	49	54	48	-0.4	-0.4	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0243		Residential	1	SW	57	51	57	51	57	51	56	51	-0.5	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0244		Residential	G	SW	55	50	54	49	55	50	54	49	-0.8	-1.1	-1.1	-1.4	60	55	NO	NO	NO	NO	NO
15	15_0244		Residential	1	SW	58	53	57	52	58	53	57	52	-1	-1.2	-1.3	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0245		Residential	G	SW	56	51	55	50	56	52	55	50	-1.1	-1.4	-1.4	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0245		Residential	1	SW	58	53	57	52	58	54	57	52	-1.2	-1.4	-1.4	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0246		Residential	G	SW	56	52	55	50	57	52	55	50	-1.3	-1.6	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0246		Residential	1	SW	58	53	56	52	58	54	57	52	-1.3	-1.6	-1.6	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0247		Residential	G	SW	55	51	54	49	56	51	54	50	-1.4	-1.6	-1.6	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0247		Residential	1	SW	58	53	56	52	58	54	56	52	-1.4	-1.6	-1.7	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0248		Residential	G	SW	68	62	68	61	68	62	67	61	-0.4	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0249		Residential	G	SW	67	61	66	60	67	61	66	60	-0.4	-0.4	-0.7	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0249		Residential	1	SW	68	62	67	61	68	62	67	61	-0.4	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0250		Residential	G	SW	66	59	65	59	65	59	65	59	-0.4	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0250		Residential	1	SW	67	61	66	60	67	61	66	60	-0.5	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0251		Residential	G	SW	65	59	65	59	65	59	64	58	-0.5	-0.5	-0.8	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0251		Residential	1	SW	67	61	67	60	67	61	66	60	-0.6	-0.6	-0.9	-0.9	60	55	NO	NO	NO	NO	NO
15	15_0252		Residential	G	SW	63	57	63	56	63	57	62	56	-0.6	-0.6	-0.9	-0.9	60	55	NO	NO	NO	NO	NO
15	15_0252		Residential	1	SW	66	59	65	59	65	59	65	59	-0.5	-0.6	-0.8	-0.9	60	55	NO	NO	NO	NO	NO
15	15_0253		Residential	G	SW	65	59	64	58	65	59	64	58	-0.6	-0.6	-0.8	-1	60	55	NO	NO	NO	NO	NO
15	15_0253		Residential	1	SW	67	61	67	60	67	61	66	60	-0.3	-0.4	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0254		Residential	G	SW	67	61	67	60	67	61	66	60	-0.3	-0.4	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
15	15_0255		Residential	G	SW	64	58	64	57	64	58	63	57	-0.4	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0256		Residential	G	SW	61	55	60	54	61	55	60	54	-0.5	-0.6	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
15	15_0256		Residential	1	SW	65	59	65	59	65	59	64	58	-0.5	-0.5	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
15	15_0257		Residential	G	SW	63	57	63	57	63	57	62	56	-0.4	-0.4	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
15	15_0258		Residential	G	SW	57	53	56	52	58	54	57	52	-1.1	-1.4	-1.4	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0258		Residential	1	SW	59	55	58	53	60	56	58	54	-1.3	-1.6	-1.6	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0259		Residential	G	SE	55	51	54	50	55	51	54	50	-0.9	-1.2	-1.2	-1.6	60	55	NO	NO	NO	NO	NO
15	15_0260		Residential	G	SE	52	48	51	46	53	49	51	47	-1.5	-1.9	-1.7	-2.1	60	55	NO	NO	NO	NO	NO
15	15_0261		Residential	G	SE	56	52	55	51	57	53	55	51	-1.2	-1.4	-1.5	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0261		Residential	1	SE	58	54	57	52	59	54	57	53	-1.3	-1.5	-1.6	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0262		Residential	G	SE	54	50	52	48	55	50	53	48	-1.7	-1.9	-1.9	-2.1	60	55	NO	NO	NO	NO	NO
15	15_0262		Residential	1	SW	58	54	57	52	59	55	57	53	-1.4	-1.6	-1.6	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0263		Residential	G	SW	52	48	50	46	52	48	51	46	-1.4	-1.6	-1.6	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0263		Residential	1	SW	58	54	56	52	58	54	57	52	-1.3	-1.6	-1.7	-1.9	60	55	NO	NO	NO	NO	NO
15	15_0264		Residential	G	SW	57	53	56	51	57	53	56	51	-1.2	-1.4	-1.4	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0264		Residential	1	SW	58	54	57	52	59	54	57	53	-1.1	-1.5	-1.5	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0265		Residential	G	SE	57	52	55	51	57	53	56	51	-1.2	-1.4	-1.5	-1.8	60	55	NO	NO	NO	NO	NO
15	15_0265		Residential	1	SW	58	54	57	52	59	54	57	53	-1.1	-1.4	-1.4	-1.7	60	55	NO	NO	NO	NO	NO
15	15_0266		Residential	G	SW	52	48	51	46															

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
				dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h			
16	16_0012		Residential	1	SW	58	54	57	54	59	55	58	55	-0.6	-0.7	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
16	16_0013		Residential	G	SW	56	52	55	51	57	53	56	52	-0.8	-0.9	-0.8	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0013		Residential	1	SW	58	54	57	53	59	55	58	54	-0.7	-0.7	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0014		Residential	G	SW	55	51	54	50	56	52	55	51	-1.2	-1.3	-1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0014		Residential	1	SW	57	53	56	52	58	54	57	53	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0015		Residential	G	SW	55	52	55	51	56	53	56	52	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0015		Residential	1	SW	57	54	57	53	58	55	58	54	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0016		Residential	G	SW	55	52	55	51	56	53	56	52	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0016		Residential	1	SW	57	53	56	53	58	54	57	54	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0017		Residential	G	W	55	52	55	51	56	53	56	52	-0.8	-1	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0017		Residential	1	W	57	54	57	53	58	55	58	54	-0.6	-0.7	-0.5	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0018		Residential	G	W	56	52	55	51	56	53	56	52	-0.7	-0.9	-0.6	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0018		Residential	1	W	57	54	57	53	58	55	58	54	-0.6	-0.7	-0.5	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0019		Residential	G	W	54	51	53	50	55	52	54	51	-0.9	-1	-0.9	-1	60	55	NO	NO	NO	NO	NO
16	16_0019		Residential	1	W	56	53	56	52	57	54	57	53	-0.6	-0.6	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
16	16_0020		Residential	G	NW	54	51	53	49	55	52	54	51	-0.9	-1.1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0020		Residential	1	NW	56	52	55	51	57	53	56	53	-0.8	-1	-0.8	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0021		Residential	G	NW	54	50	53	49	55	51	54	50	-1	-1.2	-0.9	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0021		Residential	1	NW	56	52	55	52	57	53	56	53	-0.7	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0022		Residential	G	NW	53	50	52	48	54	51	53	49	-1.2	-1.4	-1.1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0022		Residential	1	SW	56	52	55	51	57	53	56	52	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0023		Residential	G	SW	54	51	53	49	55	52	54	50	-1.1	-1.2	-1	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0023		Residential	1	SW	56	53	55	52	57	54	56	53	-0.9	-1.1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0024		Residential	G	W	54	51	53	49	55	52	54	50	-1.1	-1.3	-1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0025		Residential	G	SW	54	50	52	49	55	51	54	50	-1.4	-1.6	-1.2	-1.5	60	55	NO	NO	NO	NO	NO
16	16_0025		Residential	1	NW	55	52	54	50	56	53	55	52	-1	-1.2	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0026		Residential	G	W	62	58	62	58	63	59	63	59	-0.3	-0.3	-0.3	-0.3	60	55	NO	NO	NO	NO	NO
16	16_0027		Residential	G	W	62	59	62	58	63	60	63	59	-0.3	-0.3	-0.3	-0.3	60	55	NO	NO	NO	NO	NO
16	16_0028		Residential	G	SW	62	58	61	58	63	59	62	59	-0.3	-0.4	-0.3	-0.4	60	55	NO	NO	NO	NO	NO
16	16_0029		Residential	G	SW	62	58	61	58	63	59	62	59	-0.4	-0.4	-0.3	-0.4	60	55	NO	NO	NO	NO	NO
16	16_0030		Residential	G	NW	63	59	62	59	63	60	63	60	-0.3	-0.3	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
16	16_0031		Residential	G	SW	62	58	61	57	63	59	62	59	-0.4	-0.5	-0.4	-0.5	60	55	NO	NO	NO	NO	NO
16	16_0032		Residential	G	SW	62	58	61	58	63	59	62	59	-0.4	-0.5	-0.4	-0.4	60	55	NO	NO	NO	NO	NO
16	16_0033		Residential	G	SW	61	57	61	57	62	58	62	58	-0.5	-0.5	-0.3	-0.4	60	55	NO	NO	NO	NO	NO
16	16_0034		Residential	G	SW	61	57	61	57	62	58	62	58	-0.4	-0.5	-0.4	-0.5	60	55	NO	NO	NO	NO	NO
16	16_0035		Residential	G	SW	61	57	60	57	62	58	61	58	-0.4	-0.5	-0.3	-0.4	60	55	NO	NO	NO	NO	NO
16	16_0036		Residential	G	SW	60	56	59	56	61	57	60	57	-0.6	-0.6	-0.5	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0037		Residential	G	SW	60	56	59	55	61	57	60	56	-0.7	-0.8	-0.5	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0038		Residential	G	SW	58	54	57	53	59	55	58	54	-0.9	-1.1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0039		Residential	G	SW	59	55	58	55	60	56	59	56	-0.7	-0.8	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0040		Residential	G	SW	58	55	57	54	59	56	59	55	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0040		Residential	1	SW	59	56	59	55	60	57	60	56											

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
16	16_0071		Residential	G	SW	61	57	60	57	62	58	61	58	-0.7	-0.8	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0072		Residential	G	NW	61	58	61	57	62	59	62	58	-0.6	-0.7	-0.5	-0.6	60	55	NO	NO	NO	NO	NO	
16	16_0073		Residential	G	NW	61	57	60	56	61	58	61	57	-0.8	-0.9	-0.6	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0074		Residential	G	W	63	59	63	59	64	60	64	60	-0.5	-0.4	-0.3	-0.4	60	55	NO	NO	NO	NO	NO	
16	16_0075		Residential	G	W	63	59	62	58	64	60	63	59	-0.5	-0.6	-0.4	-0.5	60	55	NO	NO	NO	NO	NO	
16	16_0075		Residential	1	W	64	60	63	60	65	61	64	61	-0.4	-0.4	-0.3	-0.4	60	55	NO	NO	NO	NO	NO	
16	16_0076		Residential	G	W	62	59	62	58	63	60	63	59	-0.5	-0.6	-0.5	-0.6	60	55	NO	NO	NO	NO	NO	
16	16_0077		Residential	G	W	62	58	61	58	63	59	62	59	-0.7	-0.7	-0.6	-0.6	60	55	NO	NO	NO	NO	NO	
16	16_0078		Residential	G	SW	62	58	61	57	63	59	62	58	-0.7	-0.8	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0079		Residential	G	SW	61	57	60	57	62	58	61	58	-0.7	-0.8	-0.7	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0080		Residential	G	SW	61	57	60	56	62	58	61	57	-0.7	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0081		Residential	G	SW	60	57	59	56	61	58	60	57	-0.8	-0.9	-0.8	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0082		Residential	G	SW	60	56	59	55	61	57	60	57	-0.8	-0.9	-0.7	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0083		Residential	G	SW	60	56	59	55	61	57	60	56	-0.8	-0.9	-0.8	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0084		Residential	G	SW	59	55	58	55	60	57	59	56	-0.9	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0085		Residential	G	SW	59	55	58	54	60	56	59	55	-1	-1.1	-0.9	-1	60	55	NO	NO	NO	NO	NO	
16	16_0086		Residential	G	SW	58	55	57	53	59	56	58	55	-1	-1.1	-0.9	-1.1	60	55	NO	NO	NO	NO	NO	
16	16_0086		Residential	1	NW	60	56	59	55	61	57	60	57	-0.8	-0.9	-0.7	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0087		Residential	G	SW	59	55	58	54	60	56	59	56	-0.8	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0088		Residential	G	NW	58	54	57	53	59	55	58	54	-0.7	-0.9	-0.7	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0088		Residential	1	NW	60	56	59	55	61	57	60	56	-0.6	-0.8	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0089		Residential	G	SW	58	54	57	54	59	55	58	55	-0.8	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0090		Residential	G	NW	55	51	54	50	56	52	55	52	-0.9	-1	-0.8	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0091		Residential	G	SW	56	52	55	51	57	53	56	52	-1	-1.1	-0.9	-1.1	60	55	NO	NO	NO	NO	NO	
16	16_0091		Residential	1	NW	58	55	58	54	59	56	59	55	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0092		Residential	G	SW	56	52	55	51	57	53	56	52	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO	
16	16_0092		Residential	1	SW	58	54	57	54	59	55	58	55	-0.8	-0.8	-0.7	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0093		Residential	G	W	57	53	56	52	57	54	57	53	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0094		Residential	G	W	56	52	55	51	57	53	56	52	-0.9	-0.9	-0.8	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0094		Residential	1	W	58	54	57	54	59	55	58	55	-0.8	-0.9	-0.8	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0095		Residential	G	NW	56	52	55	51	57	53	56	52	-1.1	-1.3	-1	-1.2	60	55	NO	NO	NO	NO	NO	
16	16_0096		Residential	G	NW	57	53	56	53	58	55	57	54	-0.8	-0.8	-0.6	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0097		Residential	G	SW	57	53	56	52	58	54	57	53	-1.3	-1.4	-1.2	-1.4	60	55	NO	NO	NO	NO	NO	
16	16_0097		Residential	1	NW	59	55	58	54	60	56	59	55	-0.8	-0.9	-0.8	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0098		Residential	G	SW	56	53	55	51	57	54	56	52	-1.3	-1.4	-1.2	-1.4	60	55	NO	NO	NO	NO	NO	
16	16_0099		Residential	G	SW	56	52	54	50	57	53	55	52	-1.5	-1.7	-1.4	-1.6	60	55	NO	NO	NO	NO	NO	
16	16_0100		Residential	G	SW	56	52	54	51	57	53	56	52	-1.3	-1.4	-1.2	-1.3	60	55	NO	NO	NO	NO	NO	
16	16_0101		Residential	G	N	54	50	53	49	55	51	54	50	-0.7	-0.7	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0102		Residential	G	NW	63	59	62	58	64	60	63	59	-0.6	-0.6	-0.5	-0.6	60	55	NO	NO	NO	NO	NO	
16	16_0102		Residential	G	SW	62	59	62	58	63	60	63	59	-0.7	-0.7	-0.6	-0.6	60	55	NO	NO	NO	NO	YES	
16	16_0103		Residential	G	NW	63	60	63	59	64	61	64	60	-0.8	-0.7	-0.6	-0.6	60	55	NO	YES	NO	NO	YES	
16	16_0104		Residential	G	NW	64	60	63	60	65	61	64	61	-0.9	-0.9	-0.8	-0.9	60	55	NO					

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?	
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030									
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night		Day
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
16	16_0137		Residential	G	W	55	51	54	50	56	52	55	51	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0138		Residential	G	W	55	51	54	50	56	52	55	51	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0139		Residential	G	NW	55	51	54	50	56	52	55	51	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0140		Residential	G	NW	54	50	53	49	55	51	54	50	-0.8	-0.9	-0.7	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0140		Residential	1	NW	56	52	55	51	57	53	56	52	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0141		Residential	G	SW	53	49	52	48	54	50	53	49	-1.1	-1.3	-1	-1.3	60	55	NO	NO	NO	NO	NO	
16	16_0141		Residential	1	SW	54	51	53	50	55	52	54	51	-0.8	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO	
16	16_0142		Residential	G	SW	51	47	49	46	52	48	51	47	-1.5	-1.7	-1.4	-1.7	60	55	NO	NO	NO	NO	NO	
16	16_0142		Residential	1	SW	52	48	51	47	53	49	52	48	-1.3	-1.5	-1.2	-1.5	60	55	NO	NO	NO	NO	NO	
16	16_0143		Residential	G	SW	52	48	51	47	53	49	52	48	-1	-1.3	-1	-1.3	60	55	NO	NO	NO	NO	NO	
16	16_0143		Residential	1	SW	53	50	52	49	54	51	53	50	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO	
16	16_0144		Residential	G	SW	52	48	51	47	53	49	52	48	-1	-1.2	-0.9	-1.2	60	55	NO	NO	NO	NO	NO	
16	16_0144		Residential	1	SW	53	49	52	49	54	50	53	50	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0145		Residential	G	SW	53	49	52	48	53	50	53	49	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO	
16	16_0146		Residential	G	SW	52	48	51	47	53	49	52	48	-0.9	-1	-0.7	-1	60	55	NO	NO	NO	NO	NO	
16	16_0146		Residential	1	SW	53	49	52	48	54	50	53	49	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0147		Residential	G	W	50	46	49	45	51	47	50	46	-1	-1.2	-1	-1.1	60	55	NO	NO	NO	NO	NO	
16	16_0148		Residential	G	W	52	48	51	48	53	49	52	49	-0.8	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0149		Residential	G	N	53	49	52	49	54	50	53	50	-0.7	-0.7	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0150		Residential	G	NE	51	47	51	47	52	48	51	48	-0.6	-0.7	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0151		Residential	G	W	52	48	52	48	53	49	53	49	-0.7	-0.7	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0152		Residential	G	W	53	49	52	49	54	50	53	50	-0.6	-0.6	-0.5	-0.5	60	55	NO	NO	NO	NO	NO	
16	16_0153		Residential	G	N	53	50	53	49	54	51	54	50	-0.6	-0.7	-0.5	-0.6	60	55	NO	NO	NO	NO	NO	
16	16_0154		Residential	G	N	53	49	52	49	54	50	53	50	-0.5	-0.5	-0.4	-0.5	60	55	NO	NO	NO	NO	NO	
16	16_0155		Residential	G	N	51	47	50	46	52	48	51	47	-0.8	-0.8	-0.8	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0155		Residential	1	N	54	50	54	50	55	51	55	51	-0.6	-0.6	-0.5	-0.6	60	55	NO	NO	NO	NO	NO	
16	16_0156		Residential	G	N	54	50	53	50	55	51	54	51	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0157		Residential	G	N	55	51	54	50	56	52	55	51	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0158		Residential	G	N	55	52	55	51	56	53	56	52	-0.6	-0.7	-0.5	-0.6	60	55	NO	NO	NO	NO	NO	
16	16_0159		Residential	G	N	56	52	55	52	57	53	56	53	-0.7	-0.7	-0.5	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0160		Residential	G	N	56	53	56	52	57	54	57	53	-0.7	-0.7	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0160		Residential	1	N	57	53	56	53	58	54	57	54	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO	
16	16_0161		Residential	G	N	56	53	56	52	57	54	57	53	-0.7	-0.8	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0161		Residential	1	W	57	53	56	53	58	54	57	54	-0.7	-0.8	-0.6	-0.7	60	55	NO	NO	NO	NO	NO	
16	16_0162		Residential	G	W	56	52	55	52	57	53	56	53	-0.7	-0.7	-0.5	-0.6	60	55	NO	NO	NO	NO	NO	
16	16_0163		Residential	G	N	54	51	53	49	55	51	54	50	-1.2	-1.4	-1.1	-1.3	60	55	NO	NO	NO	NO	NO	
16	16_0164		Residential	G	N	57	54	56	53	58	55	57	54	-0.9	-1	-0.7	-0.9	60	55	NO	NO	NO	NO	NO	
16	16_0165		Residential	G	N	58	54	57	53	59	55	58	54	-1	-1	-0.8	-1.1	60	55	NO	NO	NO	NO	NO	
16	16_0166		Residential	G	W	59	55	58	54	60	56	59	55	-1.1	-1.2	-0.9	-1.2	60	55	NO	NO	NO	NO	NO	
16	16_0166		Residential	1	W	60	57	59	56	61	58	60	57	-1.1	-1.3	-1	-1.2	60	55	NO	NO	NO	NO	NO	
16	16_0167		Residential	G	NW	59	56	58	54	60	57	59	55	-1.3	-1.3	-1.1	-1.4	60	55	NO	NO	NO	NO	NO	
16	16_0168		Residential	G	N	59	55	58	54	60	56	59	55	-1.2	-1.3	-1.1	-1.2	60	55	NO	NO	NO	NO	NO	

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
						Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night					
				dB(A)	dB(A)			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day			Night	≥ 65dB LAeq,15h	
16	16_0190		Residential	G	SW	47	44	46	42	48	45	47	43	-1.4	-1.7	-1.2	-1.7	60	55	NO	NO	NO	NO	NO
16	16_0190		Residential	1	NE	48	44	47	43	49	45	48	44	-0.4	-0.3	-0.3	-0.4	60	55	NO	NO	NO	NO	NO
16	16_0191		Residential	G	SW	51	48	50	47	52	49	51	48	-1	-1.2	-0.9	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0191		Residential	1	SW	52	48	51	47	53	49	52	48	-0.9	-1.1	-0.8	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0192		Residential	G	SW	47	43	45	41	48	44	46	42	-1.6	-1.9	-1.5	-1.8	60	55	NO	NO	NO	NO	NO
16	16_0192		Residential	1	NE	50	46	50	46	51	47	51	47	-0.3	-0.3	-0.2	-0.2	60	55	NO	NO	NO	NO	NO
16	16_0193		Residential	G	NW	55	51	54	50	55	52	55	51	-0.6	-0.7	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
16	16_0193		Residential	1	NW	55	51	54	51	56	52	55	52	-0.6	-0.6	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
16	16_0194		Residential	G	SW	51	47	50	46	52	48	51	47	-1	-1.1	-0.9	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0194		Residential	1	SW	53	49	52	48	54	50	53	49	-0.8	-1	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0195		Residential	G	SW	52	48	51	48	53	49	52	49	-0.8	-0.9	-0.8	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0195		Residential	1	NW	54	50	53	49	55	51	54	50	-0.7	-0.9	-0.6	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0196		Residential	G	W	53	49	52	48	53	50	53	49	-0.8	-1	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0196		Residential	1	W	54	50	53	49	55	51	54	50	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0197		Residential	G	SW	53	49	52	48	54	50	53	49	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0197		Residential	1	SW	54	50	53	49	55	51	54	50	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0198		Residential	G	NW	52	48	51	47	53	49	52	48	-0.8	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0199		Residential	G	SW	52	49	51	47	53	50	52	48	-1.1	-1.3	-1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0200		Residential	G	SW	51	47	50	46	52	48	51	47	-1.3	-1.5	-1.1	-1.5	60	55	NO	NO	NO	NO	NO
16	16_0200		Residential	1	SW	53	49	52	48	54	50	53	49	-0.9	-1.1	-0.8	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0201		Residential	G	SW	52	48	51	47	53	49	52	48	-0.9	-1.1	-0.8	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0201		Residential	1	SW	54	50	53	49	55	51	54	50	-0.8	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0202		Residential	G	SW	55	51	54	50	55	52	55	51	-0.7	-0.9	-0.6	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0203		Residential	G	SW	55	51	54	50	56	52	55	51	-0.8	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0203		Residential	1	NW	56	52	55	52	57	53	56	53	-0.6	-0.7	-0.5	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0204		Residential	G	NW	54	50	53	49	55	51	54	50	-0.7	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0205		Residential	G	SW	55	52	55	51	56	53	56	52	-0.7	-0.9	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0206		Residential	G	N	55	52	55	51	56	53	56	52	-0.6	-0.7	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
16	16_0206		Residential	1	W	57	53	56	52	58	54	57	53	-0.6	-0.7	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
16	16_0207		Residential	G	W	55	51	54	50	56	52	55	51	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0207		Residential	1	W	56	53	56	52	57	54	57	53	-0.7	-0.7	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0208		Residential	G	NW	54	51	53	49	55	52	54	50	-1	-1.1	-0.9	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0208		Residential	1	SW	56	52	55	51	57	53	56	52	-0.8	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0209		Residential	G	NW	56	52	55	51	57	53	56	52	-0.8	-0.9	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0210		Residential	G	NW	55	51	54	50	56	52	55	51	-0.9	-1.1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0210		Residential	1	NW	56	53	56	52	57	54	57	53	-0.7	-0.7	-0.5	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0211		Residential	G	SW	52	49	51	47	53	50	52	48	-1.5	-1.7	-1.4	-1.7	60	55	NO	NO	NO	NO	NO
16	16_0211		Residential	1	SW	53	50	52	48	54	51	53	49	-1.1	-1.3	-1.1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0212		Residential	G	SW	54	50	53	49	55	51	54	50	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0213		Residential	G	SW	54	50	53	50	55	51	54	51	-0.8	-0.9	-0.8	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0214		Residential	G	SW	54	50	53	50	55	51	54	51	-0.8	-0.9	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0215		Residential	G	SW	54	50	53	50	55	51	54	51	-0.6	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0216		Residential	G	SW	54	50	53	49	55	51	54	50	-0.7</										

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
16	16_0235		Residential	G	W	56	52	56	52	57	54	57	53	-0.6	-0.6	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0235		Residential	1	W	57	53	56	52	58	54	57	54	-0.8	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0236		Residential	G	N	55	51	54	50	56	52	55	51	-0.7	-0.7	-0.7	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0236		Residential	1	N	57	53	56	52	58	54	57	54	-0.7	-0.8	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0237		Residential	G	N	57	53	56	53	58	54	57	54	-0.8	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0238		Residential	G	N	57	54	57	53	58	55	58	54	-0.8	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0238		Residential	1	N	58	55	58	54	59	56	59	55	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0239		Residential	G	N	58	54	57	53	59	55	58	54	-1	-1.1	-0.9	-1	60	55	NO	NO	NO	NO	NO
16	16_0239		Residential	1	N	59	56	58	55	60	57	59	56	-1	-1.2	-1	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0240		Residential	G	W	59	56	58	54	60	57	59	55	-1	-1.2	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0240		Residential	1	W	60	56	59	55	61	57	60	56	-1	-1.2	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0241		Residential	G	N	59	55	58	54	60	56	59	55	-1	-1.1	-1	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0241		Residential	1	N	60	57	59	56	61	58	60	57	-1.2	-1.2	-1.1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0242		Residential	G	N	58	55	57	53	59	56	58	54	-1.2	-1.3	-1.1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0242		Residential	1	N	61	57	59	56	61	58	60	57	-1.2	-1.2	-1	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0243		Residential	G	W	60	56	59	55	61	57	60	56	-1.1	-1.2	-1	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0243		Residential	1	W	62	58	60	57	63	59	61	58	-1.2	-1.3	-1.1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0244		Residential	G	W	60	56	59	55	61	57	60	56	-1.1	-1.2	-1	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0244		Residential	1	W	61	58	60	56	62	59	61	57	-1.2	-1.4	-1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0245		Residential	G	W	61	57	60	56	62	58	61	57	-1.2	-1.3	-1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0246		Residential	G	NW	61	57	60	56	62	58	61	57	-1.1	-1.3	-1	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0247		Residential	G	NE	60	57	59	55	61	58	60	56	-1	-1.2	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0248		Residential	G	N	58	55	58	54	59	56	59	55	-0.7	-0.9	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0248		Residential	1	N	60	56	59	55	61	57	60	56	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0249		Residential	G	NW	58	55	57	54	59	56	58	55	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0249		Residential	1	NW	59	56	58	55	60	57	59	56	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0250		Residential	G	W	59	55	58	54	60	56	59	55	-1	-1.1	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0251		Residential	G	W	59	55	58	54	60	56	59	55	-1	-1.1	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0252		Residential	G	N	58	54	57	53	58	55	58	54	-0.7	-0.8	-0.6	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0253		Residential	G	N	59	56	59	55	60	57	60	56	-0.9	-1	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0254		Residential	G	W	58	55	58	54	59	56	59	55	-0.8	-0.9	-0.8	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0254		Residential	1	W	60	56	59	55	61	57	60	56	-0.8	-1	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0255		Residential	G	W	58	54	57	54	59	55	58	55	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0256		Residential	G	W	57	54	57	53	58	55	58	54	-0.8	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0256		Residential	1	W	59	55	58	54	60	56	59	55	-0.9	-1	-0.9	-1	60	55	NO	NO	NO	NO	NO
16	16_0257		Residential	G	W	57	53	56	53	58	54	57	53	-0.8	-0.8	-0.6	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0257		Residential	1	W	59	55	58	54	60	56	59	55	-0.9	-1	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0258		Residential	G	N	56	52	55	51	57	53	56	52	-0.6	-0.6	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
16	16_0258		Residential	1	W	58	54	57	53	59	55	58	54	-0.8	-0.9	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0259		Residential	G	SW	56	52	55	52	57	53	56	52	-0.8	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0259		Residential	1	SW	58	54	57	53	59	55	58	54	-0.9	-1.1	-1	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0260		Residential	G	N	55	51	54	50	56	52	55	51	-0.6	-0.7	-0.5	-0.6	60	55	NO	NO	NO	NO	NO
16	16_0260		Residential	1	W																			

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h		
16	16_0281		Residential	G	NW	63	59	61	58	64	60	62	59	-1.6	-1.7	-1.5	-1.7	60	55	NO	NO	NO	NO	YES
16	16_0282		Residential	G	NW	61	57	60	56	62	58	61	57	-1.4	-1.5	-1.3	-1.5	60	55	NO	NO	NO	NO	NO
16	16_0282		Residential	1	NW	63	60	62	58	64	61	63	59	-1.5	-1.5	-1.4	-1.6	60	55	NO	NO	NO	NO	YES
16	16_0283		Residential	G	NW	60	56	59	55	61	57	60	56	-1	-1.1	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0284		Residential	G	NW	61	57	60	56	62	58	61	57	-1.2	-1.3	-1.1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0285		Residential	G	NW	60	56	59	55	61	57	60	56	-1.3	-1.4	-1.2	-1.4	60	55	NO	NO	NO	NO	NO
16	16_0286		Residential	G	NW	58	54	56	52	59	55	57	53	-1.4	-1.6	-1.3	-1.5	60	55	NO	NO	NO	NO	NO
16	16_0286		Residential	1	NW	60	57	59	55	61	58	60	57	-1.1	-1.2	-1	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0287		Residential	G	NW	58	55	57	54	59	56	58	55	-1	-1	-0.9	-1	60	55	NO	NO	NO	NO	NO
16	16_0288		Residential	G	N	57	53	56	52	58	54	57	53	-1	-1.1	-1	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0288		Residential	1	W	61	57	60	56	62	58	61	57	-1.2	-1.4	-1.1	-1.3	60	55	NO	NO	NO	NO	NO
16	16_0289		Residential	G	N	59	55	58	54	60	56	59	55	-1.1	-1.2	-1	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0290		Residential	G	W	60	56	59	55	61	57	60	56	-1.6	-1.6	-1.4	-1.6	60	55	NO	NO	NO	NO	NO
16	16_0290		Residential	1	W	63	59	61	57	64	60	62	59	-1.4	-1.5	-1.2	-1.4	60	55	NO	NO	NO	NO	YES
16	16_0291		Residential	G	W	60	57	59	55	61	58	60	56	-1.5	-1.6	-1.4	-1.6	60	55	NO	NO	NO	NO	NO
16	16_0292		Residential	G	W	59	56	58	54	60	57	59	55	-1.4	-1.6	-1.3	-1.5	60	55	NO	NO	NO	NO	NO
16	16_0292		Residential	1	W	62	58	60	57	63	59	62	58	-1.4	-1.5	-1.3	-1.5	60	55	NO	NO	NO	NO	NO
16	16_0293		Residential	G	W	60	56	58	55	61	57	59	56	-1.4	-1.5	-1.3	-1.5	60	55	NO	NO	NO	NO	NO
16	16_0293		Residential	1	W	62	58	61	57	63	59	62	58	-1.4	-1.5	-1.3	-1.5	60	55	NO	NO	NO	NO	NO
16	16_0294		Residential	G	NW	67	63	64	61	68	64	65	62	-2.1	-2.2	-2.1	-2.2	60	55	YES	YES	YES	YES	YES
16	16_0295		Residential	G	SW	66	62	64	60	67	63	65	61	-2.3	-2.4	-2.2	-2.3	60	55	YES	YES	YES	YES	YES
16	16_0296		Residential	G	W	67	63	65	61	68	64	66	62	-2.1	-2.1	-2	-2.2	60	55	YES	YES	YES	YES	YES
16	16_0297		Residential	G	W	66	62	64	60	67	63	65	61	-2.2	-2.2	-2.1	-2.2	60	55	YES	YES	YES	YES	YES
16	16_0297		Residential	1	W	68	65	66	63	69	66	67	64	-1.9	-2	-1.9	-2	60	55	YES	YES	YES	YES	YES
16	16_0298		Residential	G	W	65	61	63	59	66	62	64	60	-2.1	-2.3	-2.1	-2.3	60	55	NO	YES	NO	NO	YES
16	16_0299		Residential	G	W	64	61	62	58	65	62	63	59	-2.1	-2.2	-2	-2.2	60	55	NO	NO	NO	NO	YES
16	16_0300		Residential	G	W	62	59	60	56	63	60	61	57	-2	-2.1	-1.9	-2.1	60	55	NO	NO	NO	NO	NO
16	16_0301		Residential	G	W	64	60	62	58	65	61	63	59	-1.8	-1.9	-1.7	-1.8	60	55	NO	NO	NO	NO	YES
16	16_0302		Residential	G	W	63	60	62	58	64	61	63	59	-1.6	-1.7	-1.6	-1.7	60	55	NO	NO	NO	NO	YES
16	16_0303		Residential	G	W	63	59	61	57	64	60	62	58	-1.5	-1.5	-1.4	-1.5	60	55	NO	NO	NO	NO	YES
16	16_0304		Residential	G	W	64	60	63	59	65	61	64	60	-1.4	-1.4	-1.4	-1.5	60	55	NO	YES	NO	NO	YES
16	16_0305		Residential	G	W	62	58	61	57	63	59	62	58	-1.1	-1.2	-1.1	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0306		Residential	G	W	61	57	60	56	62	58	61	57	-1.2	-1.3	-1.1	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0307		Residential	G	N	59	56	58	54	60	57	59	55	-1.2	-1.3	-1.1	-1.2	60	55	NO	NO	NO	NO	NO
16	16_0308		Residential	G	N	59	56	58	54	60	57	59	55	-1	-1.2	-1	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0309		Residential	G	N	59	55	58	54	60	56	59	55	-1.1	-1.1	-0.9	-1	60	55	NO	NO	NO	NO	NO
16	16_0310		Residential	G	W	59	55	58	54	60	57	59	55	-1.1	-1.1	-0.9	-1.1	60	55	NO	NO	NO	NO	NO
16	16_0311		Residential	G	N	57	53	56	53	58	54	57	54	-0.7	-0.8	-0.7	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0312		Residential	G	NE	56	52	55	52	57	53	56	53	-0.7	-0.6	-0.6	-0.6	60	55	NO	NO	NO	NO	NO
16	16_0313		Residential	G	W	57	53	56	52	58	54	57	53	-0.9	-0.9	-0.9	-1	60	55	NO	NO	NO	NO	NO
16	16_0314		Residential	G	W	57	54	57	53	58	55	58	54	-0.9	-0.9	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0315		Residential	G	W	58	54	57	53	58	55	58	54	-0.9	-1	-0.7	-0.9	60	55	NO	NO	NO	NO	NO
16	16_0316</																							

NCA	NCA ID	Receiver description	Receiver type	Facade		Opening year 2020				Design Year 2030				Increase (Build - No Build)				NCG project road noise criteria		Do noise levels exceed the cumulative limit with project roads controlling noise levels?		Is the contribution from the road project Acute?		Consider further treatment?
						No Build		Build		No Build		Build		Opening year 2020		Design year 2030								
				Floor	Orientation	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night			Day	Night	
						dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	Day	Night	≥ 65dB LAeq,15h	≥ 60dB LAeq,9h	
16	16_0336		Residential	G	W	55	52	55	51	56	53	56	52	-0.7	-0.9	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0336		Residential	1	W	56	53	56	52	57	54	57	53	-0.7	-0.8	-0.7	-0.8	60	55	NO	NO	NO	NO	NO
16	16_0337		Residential	G	N	56	52	55	52	57	53	56	53	-0.7	-0.8	-0.6	-0.7	60	55	NO	NO	NO	NO	NO
16	16_0337		Residential	1	W	58	54	57	53	59	55	58	54	-0.8	-0.9	-0.8	-1	60	55	NO	NO	NO	NO	NO
16	16_0338		Residential	G	W	57	53	56	52	58	54	57	53	-0.8	-0.9	-0.8	-0.8	60	55	NO	NO	NO	NO	NO