

APPENDIX C: PREDICTED CONSTRUCTION NOISE LEVELS

Site Location	Most Affected Dwellings	Predicted Sound Level Without Mitigation (dB LAeq)	Main Sound-generating Activities	Duration of works (months)	Potential Mitigation Options	Predicted Sound Level With Mitigation (dB LAeq)	Effects After Mitigation	Management mitigation required?
Western Springs								
Daytime (Stage 1 Excavation)	42 Sefton Ave	64	Excavators, piling rigs, trucks, Rock breaking	0.5-1	Not required	64	Complies with PNC	-
	6 Old Mill Road	52	Excavators, piling rigs, trucks, Rock breaking					
	744 Great North Road	59	Excavators, piling rigs, trucks, Rock breaking					
Daytime (Stage 2 Tunnelling)	42 Sefton Ave	58	Loaders, trucks, generators, gantry crane ventilation, treatment plant etc	5 years	Not required	58	Complies with PNC	-
	6 Old Mill Road	50	Loaders, trucks, generators, gantry crane ventilation, treatment plant etc					
	744 Great North Road	52	Loaders, trucks, generators, gantry crane ventilation, treatment plant etc					
Night-time (Stage 1 Excavation)	No significant excavation works will occur during night-time	-	-	-	-	-	-	-
Night-time (Stage 2 Tunnelling)	42 Sefton Ave	58	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc	5 years	Insulation of shaft enclosure. Doors closed at night. No trucks in night-time period. Silencing of Central Interceptor tunnel vent outlets. Noise barrier.	45	Complies with PNC	-
	6 Old Mill Road	50	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc					
	744 Great North Road	52	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc					
May Road								
Daytime (Stage 1 Excavation)	41A Marion Ave	67	Rock breaking	2	Site noise barrier	64	Complies with PNC	-
	53A Marion Ave	80	Rock breaking					

Site Location	Most Affected Dwellings	Predicted Sound Level Without Mitigation (dB L _{Aeq})	Main Sound-generating Activities	Duration of works (months)	Potential Mitigation Options	Predicted Sound Level With Mitigation (dB L _{Aeq})	Effects After Mitigation	Management mitigation required?
	48 Marion Ave (first floor)	66	Rock breaking		Site noise barrier	65	Complies with PNC	-
	Commercial receiver – Roma Rd	68	Rock breaking		Not required	68	Complies with PNC	-
Daytime (Stage 2 Tunnelling)	41A Marion Ave	63	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc	5 years	Site noise barrier	58	Complies with PNC	-
	53A Marion Ave	65	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc		Site noise barrier	51	Complies with PNC	-
	48 Marion Ave (first floor)	59	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc		Site noise barrier	49	Complies with PNC	-
	Commercial receiver – Roma Rd	63	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc		NA	63	Complies with PNC	-
Night-time (Stage 1 Excavation)	No significant excavation works will occur during night-time							-
Night-time (Stage 2 Tunnelling)	41A Marion Ave	63	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc	5 years	Insulation of shed. Doors closed at night. No trucks in night-time period. Silencing of Central Interceptor tunnel vent outlets. Noise barrier.	43	Complies with PNC	-
	53A Marion Ave	65	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc		Insulation of shed. Doors closed at night. No trucks in night-time period. Silencing of Central Interceptor tunnel vent outlets. Noise barrier.	43	Complies with PNC	-
	48 Marion Ave (first floor)	59	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc		Insulation of shed. Doors closed at night. No trucks in night-time period. Silencing of Central Interceptor tunnel vent outlets. Noise barrier.	39	Complies with PNC	-
	Commercial receiver – Roma Rd	63	Loaders, trucks, generators, gantry crane, ventilation, treatment plant etc		Not required	63	Complies with PNC	-
Mt. Albert War Memorial – Reserve site	13A Wairere Ave	79	Rock breaking	1	Site noise barrier.	73	Potential short-term disturbance. No health risk.	Yes
	65B & C Asquith Ave (First floor)	77	Piling and excavation rig, Rock breaking		None due to receiver height above ground	77	Significant short-term disturbance. No health risk.	Yes
	9 Wairere Ave	73	Rock breaking		Site noise barrier	68	Complies with PNC	-

Site Location	Most Affected Dwellings	Predicted Sound Level Without Mitigation (dB L _{Aeq})	Main Sound-generating Activities	Duration of works (months)	Potential Mitigation Options	Predicted Sound Level With Mitigation (dB L _{Aeq})	Effects After Mitigation	Management mitigation required?
	22 Selcourt Road	63	Rock breaking		Not required	63	Complies with PNC	-
Mount. Albert War Memorial Reserve – Car Park site	13A Wairere Ave	77	Rock breaking	1	Site noise barrier	68	Complies with PNC	-
	65B & C Asquith Ave (First floor)	72	Rock breaking		Site noise barrier	67	Complies with PNC	-
	9 Wairere Ave	80	Rock breaking		Site noise barrier	68	Complies with PNC	-
	22 Selcourt Road	68	Rock breaking		Site noise barrier	60	Complies with PNC	-
Lyon Ave	11-27 Morningstar Place	74	Piling and excavation rig, Rock breaking	2-2.5	None due to high-rise receivers	74	Possible short-term disturbance. No health risk.	Yes
	12-28 Morningstar Place	80	Piling and excavation rig, Rock breaking		None due to high-rise receivers	80	Significant short-term disturbance. No health risk.	Yes
	Mount Albert Grammar School (classrooms)	55	Piling and excavation rig, Rock breaking		Not required	55	Complies with PNC	-
Haverstock Rd	7 Camden Rd	69	Piling and excavation rig, Rock breaking	1-1.5	Not required	69	Complies with PNC	-
	96 Haverstock Rd	74	Rock breaking		Site acoustic barrier	70	Complies with PNC	-
	98 – 102 Haverstock Rd (First floor)	76	Rock breaking		NA	76	Significant short-term disturbance. No health risk	Yes
Walmsley Park	734 Sandringham Rd Ext (First floor)	69	Sheet piling, Rock breaking	1-1.5	Not required	69	Complies with PNC	-
	725 Sandringham Rd Ext	71	Sheet piling, rock breaking		NA	71	Possible short-term disturbance. No health risk	Yes
	7 O'Donnell Ave	77	Sheet piling, Rock breaking		Site acoustic barrier	73	Possible short-term disturbance. No health risk	Yes
	3 O'Donnell Ave	82	Sheet piling, Rock breaking		Site acoustic barrier	77	Significant short-term disturbance. No health risk.	Yes
Keith Hay Park	18 Gregory Place (first floor)	79	Piling, excavators	1-1.5	Management through CNMP.	79	Significant short-term disturbance. No health risk.	Yes
	19 Gregory Place (first floor)	85	Piling, excavators		Management through CNMP.	85	Significant short-term disturbance. No health risk.	Yes
	47 Arundel Street (first floor)	83	Piling, excavators		Site acoustic barrier	80	Significant short-term disturbance. No health risk.	Yes
Pump Station 23	33A Frederick Street (first floor)	76	Site establishment incl demolition. Piling and excavation	1-1.5	Management through CNMP.	76	Significant short-term disturbance. No health risk.	Yes
	6/41 Frederick Street (first floor)	78	Site establishment incl demolition. Piling and excavation		Management through CNMP.	78	Significant short-term disturbance. No health risk.	Yes
	25 Frederick Street (first	71	Site establishment incl		Management through	71	Possible short-term	Yes

Site Location	Most Affected Dwellings	Predicted Sound Level Without Mitigation (dB L _{Aeq})	Main Sound-generating Activities	Duration of works (months)	Potential Mitigation Options	Predicted Sound Level With Mitigation (dB L _{Aeq})	Effects After Mitigation	Management mitigation required?
	floor)		demolition		CNMP.		disturbance. No health risk.	
Kiwi Esplanade	87 Kiwi Esplanade	65	Sheet piling/Rock breaking	2-3.5	Not required	65	Complies with PNC	-
	85 Kiwi Esplanade (first floor)	66	Sheet piling/Rock breaking		Not required	66	Complies with PNC	-
	Yorkton Rise dwellings	67	Trenching	Non static <1 day	Not required	67	Complies with PNC	-
Motions Rd	47A Premier Avenue	54	Rock breaking	< 2	Not required	54	Complies with PNC	-
	Auckland Zoo	70	Rock breaking		Not required	70	Complies with PNC	-
	99 Motions Road	67	Rock breaking		Not required	67	Complies with PNC	-
	Western Springs College	64	Rock breaking		Not required	64	Complies with PNC	-
Western Springs Depot	Old Mill Road East	51	Rock breaking	< 2	Not required	51	Complies with PNC	-
	Old Mill Road North	41	Rock breaking		Not required	41	Complies with PNC	-
	Westview Road	49	Rock breaking		Not required	49	Complies with PNC	-
Rawalpindi Ave	29 Rawalpindi Street	63	Piling and excavation	< 2	Not required	58	Complies with PNC	-
	11 Rawalpindi Street (first floor)	67	Trucks on access road, Piling and excavation		Not required	67	Complies with PNC	-
	46 Parkdale Rd	67	Piling and excavation		Not required	67	Complies with PNC	-
	19 Rawalpindi Street	76	Piling and excavation		Site acoustic barrier	69	Complies with PNC	-
Norgrove Ave	16 Norgrove Ave	79	Piling and excavation	0.5-1.5	Site acoustic barrier	73	Potential short-term disturbance. No health risk.	Yes
	27 Verona Ave (first floor)	79	Piling and excavation, trucks	0.5-1.5 (ongoing for trucks)	NA	79	Significant short-term disturbance. No health risk.	Yes
	23 Verona Ave	73	Piling and excavation	0.5-1.5	Site acoustic barrier	65	Complies with PNC	-
	20 Burnside Ave	69	Piling and excavation	0.5-1.5	Not required	69	Complies with PNC	-
Pump Station 25	16 Pitfire Place	67	Site establishment incl. demolition	< 2	Not required	67	Complies with PNC	-
	29 Temuka Gardens	69	Site establishment incl. demolition		Not required	69	Complies with PNC	-
	11/20 & 3/28 Taylor Close	71	Site establishment incl. demolition		NA	71	Possible short-term disturbance. No health risk.	Yes
	32A Miranda St.	79	Trenching and demolition		Non static for trenching. <1 day	Mobile screening for trenching. Management through CNMP.	74	Possible short-term disturbance. No health risk.
Miranda Reserve	337 Blockhouse Bay Road	74	Piling and excavation	< 2	Site acoustic barrier.	67	Complies with PNC	-
	356 Blockhouse Bay Road	68	Piling and excavation		Not required	68	Complies with PNC	-
	3 Fran Andrews Drive	66	Piling and excavation		Not required	66	Complies with PNC	-
Whitney Street	115 Whitney St.	71	Piling and excavation	0.5-1.5	NA	71	Possible short-term disturbance. No health	Yes

Site Location	Most Affected Dwellings	Predicted Sound Level Without Mitigation (dB L _{Aeq})	Main Sound-generating Activities	Duration of works (months)	Potential Mitigation Options	Predicted Sound Level With Mitigation (dB L _{Aeq})	Effects After Mitigation	Management mitigation required?
	124 & 130 Whitney St.	73	Piling and excavation	0.5-1.5	NA	73	risk. Possible short-term disturbance. No health risk.	Yes
	56 Margate Rd	72	Piling and excavation, trenching	0.5-1.5 (trenching non static <1 day)	NA	72	Possible short-term disturbance. No health risk.	Yes
Dundale Ave	66C & D Dundale Ave	73	Piling and excavation		Site acoustic barrier	68	Complies with PNC	-
	73 Dundale Ave	65	Piling and excavation	< 2	Not required	65	Complies with PNC	-
Haycock Ave	1 & 3 Haycock Ave	73	Site establishment incl demolition	<2	Management through CNMP.	73	Significant short-term disturbance. No health risk.	Yes
	2 Haycock Ave	85	Demolition, crawler crane, piling		Site acoustic barrier. Management through CNMP.	75	Significant short-term disturbance. No health risk.	Yes
	6 Haycock Ave	84	Demolition, crawler crane, piling		Site acoustic barrier. Management through CNMP.	75	Significant short-term disturbance. No health risk.	Yes
	83B White Swan Road	73	Demolition, trenching		Management through CNMP.	73	Significant short-term disturbance. No health risk.	Yes

Note: PNC refers to Project Noise Controls of 70 dB L_{Aeq} Daytime, 65 dB L_{Aeq} Evening and 45 dB L_{Aeq} Night-time