

## Appendix 4.08 Calculation of Maximum Allowable Sound Power Levels for Fixed Plant Noise

### Locations of Representative NSRs

NSR	Description	X	Y
NR-C01	Chevalier Garden	841095	829392
NR-C02	Wellborn Kindergarten	841278	829305
NR-C03	Hay Nien Primary School	840954	829542
NR-C04	Ma On Shan Tsung Tsin Secondary School	840915	829562
NR-C05	Low rise residential buildings on Tai Shui Hang South Street	841040	829593
NR-C06	Kam Tai Court	840738	829691
NR-C07	S.K.H. Ma On Shan Holy Spirit Primary School	840725	829712
NR-C08	Ah Kung Kok Fishermen Village	840556	829327
NR-C10	The Neighbourhood Advice-Action Council Harmony Manor	840598	828460

### Locations of Fixed Plant Noise Sources

Source	Noise Source	X	Y
VB-M	Ventilation Building at Main Portal	840777	829361
VB-E	Ventilation Building at Emergency Portal	841290	829149
VS	Ventilation Shaft	840632	828183
ADB-C	Ventilation Fan for Chiller Plant Room at Administration Building	840666	829388
ADB-CT	Cooling Tower at Administration Building	840701	829404

Appendix 4.08 Calculation of Maximum Allowable Sound Power Levels for Fixed Plant Noise

Fixed Plant Noise Calculation

NSR	Description	Criterion, dB(A)	Noise Source	Dist., m	SWL, dB(A)	Correction, dB(A)		SPL @ NSR, dB(A)	Total SPL @ NSR, dB(A)
						Dist.	Tonal		
NR-C01	Chevalier Garden	42	VB-M	320	90	-58	3	38	42
			VB-E	312	90	-58	3	38	
			VS	1295	95	-70	3	31	
			ADB-C	429	85	-61	3	30	
			ADB-CT	395	88	-60	3	34	
NR-C02	Wellborn Kindergarten	46	VB-M	504	90	-62	3	34	45
			VB-E	157	90	-52	3	44	
			VS	1295	95	-70	3	31	
			ADB-C	617	85	-64	3	27	
			ADB-CT	586	88	-63	3	31	
NR-C03	Hay Nien Primary School	61	VB-M	253	90	-56	3	40	43
			VB-E	517	90	-62	3	34	
			VS	1397	95	-71	3	30	
			ADB-C	326	85	-58	3	33	
			ADB-CT	289	88	-57	3	37	
NR-C04	Ma On Shan Tsung Tsin Secondary School	60	VB-M	244	90	-56	3	40	43
			VB-E	558	90	-63	3	33	
			VS	1407	95	-71	3	30	
			ADB-C	304	85	-58	3	33	
			ADB-CT	266	88	-57	3	37	
NR-C05	Low rise residential buildings on Tai Shui Hang South Street	50	VB-M	351	90	-59	3	37	41
			VB-E	509	90	-62	3	34	
			VS	1468	95	-71	3	30	
			ADB-C	426	85	-61	3	30	
			ADB-CT	389	88	-60	3	34	
NR-C06	Kam Tai Court	52	VB-M	333	90	-58	3	38	42
			VB-E	774	90	-66	3	30	
			VS	1511	95	-72	3	29	
			ADB-C	311	85	-58	3	33	
			ADB-CT	289	88	-57	3	37	
NR-C07	S.K.H. Ma On Shan Holy Spirit Primary School	52	VB-M	355	90	-59	3	37	41
			VB-E	798	90	-66	3	30	
			VS	1532	95	-72	3	29	
			ADB-C	330	85	-58	3	33	
			ADB-CT	309	88	-58	3	36	
NR-C08	Ah Kung Kok Fishermen Village	49	VB-M	224	90	-55	3	41	46
			VB-E	755	90	-66	3	30	
			VS	1147	95	-69	3	32	
			ADB-C	126	85	-50	3	41	
			ADB-CT	164	88	-52	3	42	
NR-C10	The Neighbourhood Advice-Action Council Harmony Manor	44	VB-M	918	90	-67	3	29	44
			VB-E	976	90	-68	3	28	
			VS	279	95	-57	3	44	
			ADB-C	930	85	-67	3	24	
			ADB-CT	950	88	-68	3	26	

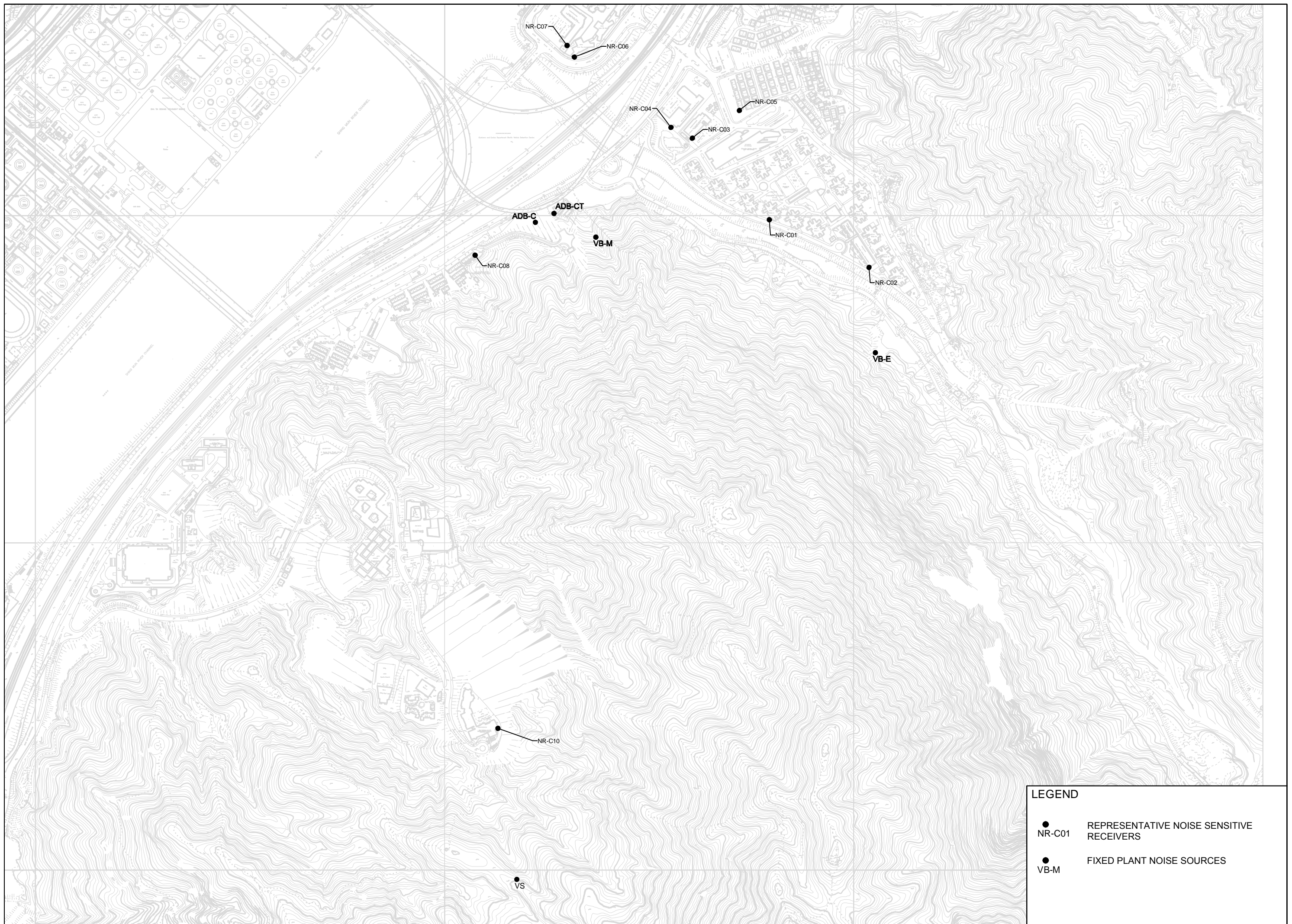
## Appendix 4.08 Calculation of Maximum Allowable Sound Power Levels for Fixed Plant Noise

### Locations of Representative NSRs

Noise Source	Description	Maximum Allowable Sound Power Level, dB(A)
VB-M	Ventilation Building at Main Portal	90
VB-E	Ventilation Building at Emergency Portal	90
VS	Ventilation Shaft	95
ADB-C	Ventilation Fan for Chiller Plant Room at Administration Building	85
ADB-CT	Cooling Tower at Administration Building	88

### Predicted Fixed Plant Noise Sources at Representative NSRs

NSR	Description	Criteria, dB(A)	Predicted Noise Level, dB(A)
NR-C01	Chevalier Garden	42	42
NR-C02	Wellborn Kindergarten	46	45
NR-C03	Hay Nien Primary School	61	43
NR-C04	Ma On Shan Tsung Tsin Secondary School	60	43
NR-C05	Low rise residential buildings on Tai Shui Hang South Street	50	41
NR-C06	Kam Tai Court	52	42
NR-C07	S.K.H. Ma On Shan Holy Spirit Primary School	52	41
NR-C08	Ah Kung Kok Fishermen Village	49	46
NR-C10	The Neighbourhood Advice-Action Council Harmony Manor	44	44



**LEGEND**

- NR-C01 REPRESENTATIVE NOISE SENSITIVE RECEIVERS
- VB-M FIXED PLANT NOISE SOURCES