

Agreement No. CE45/2008 (CE)  
Liantang/ Heung Yuen Wai Boundary Crossing Point  
and Associated Works - Investigation

Fixed Plant Noise Assessment

Appendix 4.10a

Boundary Control Point (BCP) (Daytime)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Daytime Noise Criteria, dB(A)
TYH	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	90	323	-58	0	-10	3	25		
			BCP-PTB-GF-B	90	327	-58	0	-10	3	25		
			BCP-PTB-GF-C	90	263	-56	0	0	3	37		
			BCP-PTB-GF-D	90	262	-56	0	0	3	37		
			BCP-PTB-1F-A	90	310	-58	0	-10	3	25		
			BCP-PTB-1F-B	90	337	-59	0	-10	3	24		
			BCP-PTB-1F-C	90	255	-56	0	0	3	37		
			BCP-PTB-1F-D	90	238	-56	0	0	3	37		
			BCP-PTB-2F-A	90	310	-58	0	-10	3	25		
			BCP-PTB-2F-B	90	337	-59	0	-10	3	24		
			BCP-PTB-2F-C	90	256	-56	0	0	3	37		
			BCP-PTB-2F-D	90	238	-56	0	0	3	37		
			BCP-PTB-3F-A	90	323	-58	0	-10	3	25		
			BCP-PTB-3F-B	90	338	-59	0	-10	3	24		
			BCP-PTB-3F-C	90	270	-57	0	0	3	36		
			BCP-PTB-3F-D	90	259	-56	0	0	3	37		
			BCP-PTB-4F-A	90	323	-58	0	-10	3	25		
			BCP-PTB-4F-B	90	338	-59	0	-10	3	24		
			BCP-PTB-4F-C	90	271	-57	0	0	3	36		
			BCP-PTB-4F-D	90	259	-56	0	0	3	37		
			BCP-HKP-GF-A	88	114	-49	0	-10	3	32		
			BCP-HKP-GF-B	88	91	-47	0	0	3	44		
			BCP-HKP-GF-C	88	101	-48	0	0	3	43		
			BCP-HKP-GF-D	88	122	-50	0	-10	3	31		
			BCP-FS-GF-A	88	137	-51	0	-10	3	30		
			BCP-FS-GF-B	88	131	-50	0	-10	3	31		
			BCP-FS-GF-C	88	111	-49	0	0	3	42		
			BCP-FS-GF-D	88	116	-49	0	0	3	42		
			BCP-FXI-GF-A	88	163	-52	0	0	3	39		
			BCP-FXI-GF-B	88	240	-56	0	0	3	35		
			BCP-FXI-GF-C	88	318	-58	0	-10	3	23		
			BCP-FXI-GF-D	88	242	-56	0	-10	3	25		
			BCP-STP-GF-A	94	615	-64	0	-10	3	23		
			BCP-STP-GF-B	94	652	-64	0	-10	3	23		
			BCP-STP-GF-C	94	622	-64	0	-10	3	23		
			BCP-STP-GF-D	94	569	-63	0	0	3	34		
			BCP-STP-GF-E	94	577	-63	0	0	3	34		
			BCP-STP-GF-F	94	592	-63	0	0	3	34		
			BCP-STP-GF-G	94	593	-63	0	0	3	34		
			BCP-FXO-GF-A	94	357	-59	0	-10	3	28		
			BCP-FXO-GF-B	94	310	-58	0	0	3	39		
			BCP-FXO-GF-C	94	311	-58	0	0	3	39		
			BCP-FXO-GF-D	94	342	-59	0	-10	3	28		

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Boundary Control Point (BCP) (Daytime)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Daytime Noise Criteria, dB(A)
V1	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	90	864	-67	0	0	3	26		
			BCP-PTB-GF-B	90	919	-67	0	-10	3	16		
			BCP-PTB-GF-C	90	883	-67	0	-10	3	16		
			BCP-PTB-GF-D	90	826	-66	0	0	3	27		
			BCP-PTB-1F-A	90	854	-67	0	0	3	26		
			BCP-PTB-1F-B	90	936	-67	0	-10	3	16		
			BCP-PTB-1F-C	90	872	-67	0	-10	3	16		
			BCP-PTB-1F-D	90	789	-66	0	0	3	27		
			BCP-PTB-2F-A	90	854	-67	0	0	3	26		
			BCP-PTB-2F-B	90	937	-67	0	-10	3	16		
			BCP-PTB-2F-C	90	872	-67	0	-10	3	16		
			BCP-PTB-2F-D	90	789	-66	0	0	3	27		
			BCP-PTB-3F-A	90	873	-67	0	0	3	26		
			BCP-PTB-3F-B	90	937	-67	0	-10	3	16		
			BCP-PTB-3F-C	90	890	-67	0	-10	3	16		
			BCP-PTB-3F-D	90	825	-66	0	0	3	27		
			BCP-PTB-4F-A	90	874	-67	0	0	3	26		
			BCP-PTB-4F-B	90	937	-67	0	-10	3	16		
			BCP-PTB-4F-C	90	891	-67	0	-10	3	16		
			BCP-PTB-4F-D	90	826	-66	0	0	3	27		
			BCP-HKP-GF-A	88	775	-66	0	-10	3	15		
			BCP-HKP-GF-B	88	767	-66	0	-10	3	15		
			BCP-HKP-GF-C	88	745	-65	0	0	3	26		
			BCP-HKP-GF-D	88	753	-66	0	0	3	25		
			BCP-FS-GF-A	88	784	-66	0	0	3	25		
			BCP-FS-GF-B	88	802	-66	0	-10	3	15		
			BCP-FS-GF-C	88	798	-66	0	-10	3	15		
			BCP-FS-GF-D	88	779	-66	0	0	3	25		
			BCP-FXI-GF-A	88	616	-64	0	-10	3	17		
			BCP-FXI-GF-B	88	537	-63	0	0	3	28		
			BCP-FXI-GF-C	88	470	-61	0	0	3	30		
			BCP-FXI-GF-D	88	548	-63	0	-10	3	18		
			BCP-STP-GF-A	94	312	-58	0	0	3	39		
			BCP-STP-GF-B	94	360	-59	0	0	3	38		
			BCP-STP-GF-C	94	450	-61	0	-10	3	26		
			BCP-STP-GF-D	94	499	-62	0	-10	3	25		
			BCP-STP-GF-E	94	431	-61	0	-10	3	26		
			BCP-STP-GF-F	94	351	-59	0	-10	3	28		
			BCP-STP-GF-G	94	325	-58	0	0	3	39		
			BCP-FXO-GF-A	94	835	-66	0	-10	3	21		
			BCP-FXO-GF-B	94	761	-66	0	-10	3	21		
			BCP-FXO-GF-C	94	681	-65	0	0	3	32		
			BCP-FXO-GF-D	94	756	-66	0	0	3	31		

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Appendix 4.10a

Boundary Control Point (BCP) (Daytime)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Daytime Noise Criteria, dB(A)
V2	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	90	907	-67	0	0	3	26		
			BCP-PTB-GF-B	90	959	-68	0	-10	3	15		
			BCP-PTB-GF-C	90	916	-67	0	-10	3	16		
			BCP-PTB-GF-D	90	863	-67	0	0	3	26		
			BCP-PTB-1F-A	90	897	-67	0	0	3	26		
			BCP-PTB-1F-B	90	975	-68	0	-10	3	15		
			BCP-PTB-1F-C	90	904	-67	0	-10	3	16		
			BCP-PTB-1F-D	90	824	-66	0	0	3	27		
			BCP-PTB-2F-A	90	897	-67	0	0	3	26		
			BCP-PTB-2F-B	90	976	-68	0	-10	3	15		
			BCP-PTB-2F-C	90	905	-67	0	-10	3	16		
			BCP-PTB-2F-D	90	824	-66	0	0	3	27		
			BCP-PTB-3F-A	90	916	-67	0	0	3	26		
			BCP-PTB-3F-B	90	976	-68	0	-10	3	15		
			BCP-PTB-3F-C	90	924	-67	0	-10	3	16		
			BCP-PTB-3F-D	90	862	-67	0	0	3	26		
			BCP-PTB-4F-A	90	916	-67	0	0	3	26		
			BCP-PTB-4F-B	90	976	-68	0	-10	3	15		
			BCP-PTB-4F-C	90	924	-67	0	-10	3	16		
			BCP-PTB-4F-D	90	862	-67	0	0	3	26		
			BCP-HKP-GF-A	88	792	-66	0	-10	3	15		
			BCP-HKP-GF-B	88	781	-66	0	-10	3	15		
			BCP-HKP-GF-C	88	760	-66	0	0	3	25		
			BCP-HKP-GF-D	88	772	-66	0	0	3	25		
			BCP-FS-GF-A	88	805	-66	0	0	3	25		
			BCP-FS-GF-B	88	821	-66	0	-10	3	15		
			BCP-FS-GF-C	88	813	-66	0	-10	3	15		
			BCP-FS-GF-D	88	797	-66	0	0	3	25		
			BCP-FXI-GF-A	88	627	-64	0	-10	3	17		
			BCP-FXI-GF-B	88	551	-63	0	0	3	28		
			BCP-FXI-GF-C	88	495	-62	0	0	3	29		
			BCP-FXI-GF-D	88	568	-63	0	-10	3	18		
			BCP-STP-GF-A	94	407	-60	0	0	3	37		
			BCP-STP-GF-B	94	463	-61	0	0	3	36		
			BCP-STP-GF-C	94	548	-63	0	-10	3	24		
			BCP-STP-GF-D	94	589	-63	0	-10	3	24		
			BCP-STP-GF-E	94	522	-62	0	-10	3	25		
			BCP-STP-GF-F	94	443	-61	0	-10	3	26		
			BCP-STP-GF-G	94	416	-60	0	0	3	37		
			BCP-FXO-GF-A	94	885	-67	0	-10	3	20		
			BCP-FXO-GF-B	94	808	-66	0	0	3	31		
			BCP-FXO-GF-C	94	730	-65	0	0	3	32		
			BCP-FXO-GF-D	94	808	-66	0	0	3	31		

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Boundary Control Point (BCP) (Daytime)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Daytime Noise Criteria, dB(A)
CY3	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	90	925	-67	0	-10	3	16		
			BCP-PTB-GF-B	90	968	-68	0	-10	3	15		
			BCP-PTB-GF-C	90	916	-67	0	0	3	26		
			BCP-PTB-GF-D	90	872	-67	0	0	3	26		
			BCP-PTB-1F-A	90	913	-67	0	-10	3	16		
			BCP-PTB-1F-B	90	984	-68	0	-10	3	15		
			BCP-PTB-1F-C	90	905	-67	0	0	3	26		
			BCP-PTB-1F-D	90	832	-66	0	0	3	27		
			BCP-PTB-2F-A	90	913	-67	0	-10	3	16		
			BCP-PTB-2F-B	90	984	-68	0	-10	3	15		
			BCP-PTB-2F-C	90	905	-67	0	0	3	26		
			BCP-PTB-2F-D	90	832	-66	0	0	3	27		
			BCP-PTB-3F-A	90	932	-67	0	-10	3	16		
			BCP-PTB-3F-B	90	984	-68	0	-10	3	15		
			BCP-PTB-3F-C	90	924	-67	0	0	3	26		
			BCP-PTB-3F-D	90	870	-67	0	0	3	26		
			BCP-PTB-4F-A	90	932	-67	0	-10	3	16		
			BCP-PTB-4F-B	90	984	-68	0	-10	3	15		
			BCP-PTB-4F-C	90	924	-67	0	0	3	26		
			BCP-PTB-4F-D	90	870	-67	0	0	3	26		
			BCP-HKP-GF-A	88	772	-66	0	-10	3	15		
			BCP-HKP-GF-B	88	756	-66	0	0	3	25		
			BCP-HKP-GF-C	88	739	-65	0	0	3	26		
			BCP-HKP-GF-D	88	756	-66	0	0	3	25		
			BCP-FS-GF-A	88	790	-66	0	0	3	25		
			BCP-FS-GF-B	88	802	-66	0	-10	3	15		
			BCP-FS-GF-C	88	790	-66	0	0	3	25		
			BCP-FS-GF-D	88	777	-66	0	0	3	25		
			BCP-FXI-GF-A	88	607	-64	0	-10	3	17		
			BCP-FXI-GF-B	88	543	-63	0	0	3	28		
			BCP-FXI-GF-C	88	511	-62	0	0	3	29		
			BCP-FXI-GF-D	88	569	-63	0	-10	3	18		
			BCP-STP-GF-A	94	537	-63	0	0	3	34		
			BCP-STP-GF-B	94	601	-64	0	-10	3	23		
			BCP-STP-GF-C	94	673	-65	0	-10	3	22		
			BCP-STP-GF-D	94	698	-65	0	-10	3	22		
			BCP-STP-GF-E	94	636	-64	0	0	3	33		
			BCP-STP-GF-F	94	565	-63	0	0	3	34		
			BCP-STP-GF-G	94	538	-63	0	0	3	34		
			BCP-FXO-GF-A	94	915	-67	0	-10	3	20		
			BCP-FXO-GF-B	94	836	-66	0	0	3	31		
			BCP-FXO-GF-C	94	765	-66	0	0	3	31		
			BCP-FXO-GF-D	94	844	-67	0	-10	3	20		

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Appendix 4.10a

Boundary Control Point (BCP) (Evening Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Evening Noise Criteria, dB(A)
TYH	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	87	323	-58	0	-10	3	22		
			BCP-PTB-GF-B	87	327	-58	0	-10	3	22		
			BCP-PTB-GF-C	87	263	-56	0	0	3	34		
			BCP-PTB-GF-D	87	262	-56	0	0	3	34		
			BCP-PTB-1F-A	87	310	-58	0	-10	3	22		
			BCP-PTB-1F-B	87	337	-59	0	-10	3	21		
			BCP-PTB-1F-C	87	255	-56	0	0	3	34		
			BCP-PTB-1F-D	87	238	-56	0	0	3	34		
			BCP-PTB-2F-A	87	310	-58	0	-10	3	22		
			BCP-PTB-2F-B	87	337	-59	0	-10	3	21		
			BCP-PTB-2F-C	87	256	-56	0	0	3	34		
			BCP-PTB-2F-D	87	238	-56	0	0	3	34		
			BCP-PTB-3F-A	87	323	-58	0	-10	3	22		
			BCP-PTB-3F-B	87	338	-59	0	-10	3	21		
			BCP-PTB-3F-C	87	270	-57	0	0	3	33		
			BCP-PTB-3F-D	87	259	-56	0	0	3	34		
			BCP-PTB-4F-A	87	323	-58	0	-10	3	22		
			BCP-PTB-4F-B	87	338	-59	0	-10	3	21		
			BCP-PTB-4F-C	87	271	-57	0	0	3	33		
			BCP-PTB-4F-D	87	259	-56	0	0	3	34		
			BCP-HKP-GF-A	85	114	-49	0	-10	3	29		
			BCP-HKP-GF-B	85	91	-47	0	0	3	41		
			BCP-HKP-GF-C	85	101	-48	0	0	3	40		
			BCP-HKP-GF-D	85	122	-50	0	-10	3	28		
			BCP-FS-GF-A	85	137	-51	0	-10	3	27		
			BCP-FS-GF-B	85	131	-50	0	-10	3	28		
			BCP-FS-GF-C	85	111	-49	0	0	3	39		
			BCP-FS-GF-D	85	116	-49	0	0	3	39		
			BCP-FXI-GF-A	85	163	-52	0	0	3	36		
			BCP-FXI-GF-B	85	240	-56	0	0	3	32		
			BCP-FXI-GF-C	85	318	-58	0	-10	3	20		
			BCP-FXI-GF-D	85	242	-56	0	-10	3	22		
			BCP-STP-GF-A	91	615	-64	0	-10	3	20		
			BCP-STP-GF-B	91	652	-64	0	-10	3	20		
			BCP-STP-GF-C	91	622	-64	0	-10	3	20		
			BCP-STP-GF-D	91	569	-63	0	0	3	31		
			BCP-STP-GF-E	91	577	-63	0	0	3	31		
			BCP-STP-GF-F	91	592	-63	0	0	3	31		
			BCP-STP-GF-G	91	593	-63	0	0	3	31		
			BCP-FXO-GF-A	91	357	-59	0	-10	3	25		
			BCP-FXO-GF-B	91	310	-58	0	0	3	36		
			BCP-FXO-GF-C	91	311	-58	0	0	3	36		
			BCP-FXO-GF-D	91	342	-59	0	-10	3	25		

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Boundary Control Point (BCP) (Evening Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Evening Noise Criteria, dB(A)
V1	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	87	864	-67	0	0	3	23		
			BCP-PTB-GF-B	87	919	-67	0	-10	3	13		
			BCP-PTB-GF-C	87	883	-67	0	-10	3	13		
			BCP-PTB-GF-D	87	826	-66	0	0	3	24		
			BCP-PTB-1F-A	87	854	-67	0	0	3	23		
			BCP-PTB-1F-B	87	936	-67	0	-10	3	13		
			BCP-PTB-1F-C	87	872	-67	0	-10	3	13		
			BCP-PTB-1F-D	87	789	-66	0	0	3	24		
			BCP-PTB-2F-A	87	854	-67	0	0	3	23		
			BCP-PTB-2F-B	87	937	-67	0	-10	3	13		
			BCP-PTB-2F-C	87	872	-67	0	-10	3	13		
			BCP-PTB-2F-D	87	789	-66	0	0	3	24		
			BCP-PTB-3F-A	87	873	-67	0	0	3	23		
			BCP-PTB-3F-B	87	937	-67	0	-10	3	13		
			BCP-PTB-3F-C	87	890	-67	0	-10	3	13		
			BCP-PTB-3F-D	87	825	-66	0	0	3	24		
			BCP-PTB-4F-A	87	874	-67	0	0	3	23		
			BCP-PTB-4F-B	87	937	-67	0	-10	3	13		
			BCP-PTB-4F-C	87	891	-67	0	-10	3	13		
			BCP-PTB-4F-D	87	826	-66	0	0	3	24		
			BCP-HKP-GF-A	85	775	-66	0	-10	3	12		
			BCP-HKP-GF-B	85	767	-66	0	-10	3	12		
			BCP-HKP-GF-C	85	745	-65	0	0	3	23		
			BCP-HKP-GF-D	85	753	-66	0	0	3	22		
			BCP-FS-GF-A	85	784	-66	0	0	3	22		
			BCP-FS-GF-B	85	802	-66	0	-10	3	12		
			BCP-FS-GF-C	85	798	-66	0	-10	3	12		
			BCP-FS-GF-D	85	779	-66	0	0	3	22		
			BCP-FXI-GF-A	85	616	-64	0	-10	3	14		
			BCP-FXI-GF-B	85	537	-63	0	0	3	25		
			BCP-FXI-GF-C	85	470	-61	0	0	3	27		
			BCP-FXI-GF-D	85	548	-63	0	-10	3	15		
			BCP-STP-GF-A	91	312	-58	0	0	3	36		
			BCP-STP-GF-B	91	360	-59	0	0	3	35		
			BCP-STP-GF-C	91	450	-61	0	-10	3	23		
			BCP-STP-GF-D	91	499	-62	0	-10	3	22		
			BCP-STP-GF-E	91	431	-61	0	-10	3	23		
			BCP-STP-GF-F	91	351	-59	0	-10	3	25		
			BCP-STP-GF-G	91	325	-58	0	0	3	36		
			BCP-FXO-GF-A	91	835	-66	0	-10	3	18		
BCP-FXO-GF-B	91	761	-66	0	-10	3	18					
BCP-FXO-GF-C	91	681	-65	0	0	3	29					
BCP-FXO-GF-D	91	756	-66	0	0	3	28					
											42	49

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Fixed Plant Noise Assessment

Appendix 4.10a

Boundary Control Point (BCP) (Evening Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Evening Noise Criteria, dB(A)					
V2	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	87	907	-67	0	0	3	23							
			BCP-PTB-GF-B	87	959	-68	0	-10	3	12							
			BCP-PTB-GF-C	87	916	-67	0	-10	3	13							
			BCP-PTB-GF-D	87	863	-67	0	0	3	23							
			BCP-PTB-1F-A	87	897	-67	0	0	3	23							
			BCP-PTB-1F-B	87	975	-68	0	-10	3	12							
			BCP-PTB-1F-C	87	904	-67	0	-10	3	13							
			BCP-PTB-1F-D	87	824	-66	0	0	3	24							
			BCP-PTB-2F-A	87	897	-67	0	0	3	23							
			BCP-PTB-2F-B	87	976	-68	0	-10	3	12							
			BCP-PTB-2F-C	87	905	-67	0	-10	3	13							
			BCP-PTB-2F-D	87	824	-66	0	0	3	24							
			BCP-PTB-3F-A	87	916	-67	0	0	3	23							
			BCP-PTB-3F-B	87	976	-68	0	-10	3	12							
			BCP-PTB-3F-C	87	924	-67	0	-10	3	13							
			BCP-PTB-3F-D	87	862	-67	0	0	3	23							
			BCP-PTB-4F-A	87	916	-67	0	0	3	23							
			BCP-PTB-4F-B	87	976	-68	0	-10	3	12							
			BCP-PTB-4F-C	87	924	-67	0	-10	3	13							
			BCP-PTB-4F-D	87	862	-67	0	0	3	23							
			BCP-HKP-GF-A	85	792	-66	0	-10	3	12							
			BCP-HKP-GF-B	85	781	-66	0	-10	3	12							
			BCP-HKP-GF-C	85	760	-66	0	0	3	22							
			BCP-HKP-GF-D	85	772	-66	0	0	3	22							
			BCP-FS-GF-A	85	805	-66	0	0	3	22							
			BCP-FS-GF-B	85	821	-66	0	-10	3	12							
			BCP-FS-GF-C	85	813	-66	0	-10	3	12							
			BCP-FS-GF-D	85	797	-66	0	0	3	22							
			BCP-FXI-GF-A	85	627	-64	0	-10	3	14							
			BCP-FXI-GF-B	85	551	-63	0	0	3	25							
			BCP-FXI-GF-C	85	495	-62	0	0	3	26							
			BCP-FXI-GF-D	85	568	-63	0	-10	3	15							
			BCP-STP-GF-A	91	407	-60	0	0	3	34							
			BCP-STP-GF-B	91	463	-61	0	0	3	33							
			BCP-STP-GF-C	91	548	-63	0	-10	3	21							
			BCP-STP-GF-D	91	589	-63	0	-10	3	21							
			BCP-STP-GF-E	91	522	-62	0	-10	3	22							
			BCP-STP-GF-F	91	443	-61	0	-10	3	23							
			BCP-STP-GF-G	91	416	-60	0	0	3	34							
			BCP-FXO-GF-A	91	885	-67	0	-10	3	17							
			BCP-FXO-GF-B	91	808	-66	0	0	3	28							
			BCP-FXO-GF-C	91	730	-65	0	0	3	29							
			BCP-FXO-GF-D	91	808	-66	0	0	3	28							
														41	49		

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Fixed Plant Noise Assessment

Appendix 4.10a

Boundary Control Point (BCP) (Evening Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Evening Noise Criteria, dB(A)
CY3	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	87	925	-67	0	-10	3	13		
			BCP-PTB-GF-B	87	968	-68	0	-10	3	12		
			BCP-PTB-GF-C	87	916	-67	0	0	3	23		
			BCP-PTB-GF-D	87	872	-67	0	0	3	23		
			BCP-PTB-1F-A	87	913	-67	0	-10	3	13		
			BCP-PTB-1F-B	87	984	-68	0	-10	3	12		
			BCP-PTB-1F-C	87	905	-67	0	0	3	23		
			BCP-PTB-1F-D	87	832	-66	0	0	3	24		
			BCP-PTB-2F-A	87	913	-67	0	-10	3	13		
			BCP-PTB-2F-B	87	984	-68	0	-10	3	12		
			BCP-PTB-2F-C	87	905	-67	0	0	3	23		
			BCP-PTB-2F-D	87	832	-66	0	0	3	24		
			BCP-PTB-3F-A	87	932	-67	0	-10	3	13		
			BCP-PTB-3F-B	87	984	-68	0	-10	3	12		
			BCP-PTB-3F-C	87	924	-67	0	0	3	23		
			BCP-PTB-3F-D	87	870	-67	0	0	3	23		
			BCP-PTB-4F-A	87	932	-67	0	-10	3	13		
			BCP-PTB-4F-B	87	984	-68	0	-10	3	12		
			BCP-PTB-4F-C	87	924	-67	0	0	3	23		
			BCP-PTB-4F-D	87	870	-67	0	0	3	23		
			BCP-HKP-GF-A	85	772	-66	0	-10	3	12		
			BCP-HKP-GF-B	85	756	-66	0	0	3	22		
			BCP-HKP-GF-C	85	739	-65	0	0	3	23		
			BCP-HKP-GF-D	85	756	-66	0	0	3	22		
			BCP-FS-GF-A	85	790	-66	0	0	3	22		
			BCP-FS-GF-B	85	802	-66	0	-10	3	12		
			BCP-FS-GF-C	85	790	-66	0	0	3	22		
			BCP-FS-GF-D	85	777	-66	0	0	3	22		
			BCP-FXI-GF-A	85	607	-64	0	-10	3	14		
			BCP-FXI-GF-B	85	543	-63	0	0	3	25		
			BCP-FXI-GF-C	85	511	-62	0	0	3	26		
			BCP-FXI-GF-D	85	569	-63	0	-10	3	15		
			BCP-STP-GF-A	91	537	-63	0	0	3	31		
			BCP-STP-GF-B	91	601	-64	0	-10	3	20		
			BCP-STP-GF-C	91	673	-65	0	-10	3	19		
			BCP-STP-GF-D	91	698	-65	0	-10	3	19		
			BCP-STP-GF-E	91	636	-64	0	0	3	30		
			BCP-STP-GF-F	91	565	-63	0	0	3	31		
			BCP-STP-GF-G	91	538	-63	0	0	3	31		
			BCP-FXO-GF-A	91	915	-67	0	-10	3	17		
			BCP-FXO-GF-B	91	836	-66	0	0	3	28		
			BCP-FXO-GF-C	91	765	-66	0	0	3	28		
			BCP-FXO-GF-D	91	844	-67	0	-10	3	17		



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Fixed Plant Noise Assessment

Appendix 4.10a

Boundary Control Point (BCP) (Night Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Nighttime Noise Criteria, dB(A)
THY	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	83	323	-58	0	-10	3	18		
			BCP-PTB-GF-B	83	327	-58	0	-10	3	18		
			BCP-PTB-GF-C	83	263	-56	0	0	3	30		
			BCP-PTB-GF-D	83	262	-56	0	0	3	30		
			BCP-PTB-1F-A	83	310	-58	0	-10	3	18		
			BCP-PTB-1F-B	83	337	-59	0	-10	3	17		
			BCP-PTB-1F-C	83	255	-56	0	0	3	30		
			BCP-PTB-1F-D	83	238	-56	0	0	3	30		
			BCP-PTB-2F-A	83	310	-58	0	-10	3	18		
			BCP-PTB-2F-B	83	337	-59	0	-10	3	17		
			BCP-PTB-2F-C	83	256	-56	0	0	3	30		
			BCP-PTB-2F-D	83	238	-56	0	0	3	30		
			BCP-PTB-3F-A	83	323	-58	0	-10	3	18		
			BCP-PTB-3F-B	83	338	-59	0	-10	3	17		
			BCP-PTB-3F-C	83	270	-57	0	0	3	29		
			BCP-PTB-3F-D	83	259	-56	0	0	3	30		
			BCP-PTB-4F-A	83	323	-58	0	-10	3	18		
			BCP-PTB-4F-B	83	338	-59	0	-10	3	17		
			BCP-PTB-4F-C	83	271	-57	0	0	3	29		
			BCP-PTB-4F-D	83	259	-56	0	0	3	30		
			BCP-HKP-GF-A	81	114	-49	0	-10	3	25		
			BCP-HKP-GF-B	81	91	-47	0	0	3	37		
			BCP-HKP-GF-C	81	101	-48	0	0	3	36		
			BCP-HKP-GF-D	81	122	-50	0	-10	3	24		
			BCP-FS-GF-A	81	137	-51	0	-10	3	23		
			BCP-FS-GF-B	81	131	-50	0	-10	3	24		
			BCP-FS-GF-C	81	111	-49	0	0	3	35		
			BCP-FS-GF-D	81	116	-49	0	0	3	35		
			BCP-FXI-GF-A	81	163	-52	0	0	3	32		
			BCP-FXI-GF-B	81	240	-56	0	0	3	28		
			BCP-FXI-GF-C	81	318	-58	0	-10	3	16		
			BCP-FXI-GF-D	81	242	-56	0	-10	3	18		
			BCP-STP-GF-A	87	615	-64	0	-10	3	16		
			BCP-STP-GF-B	87	652	-64	0	-10	3	16		
			BCP-STP-GF-C	87	622	-64	0	-10	3	16		
			BCP-STP-GF-D	87	569	-63	0	0	3	27		
			BCP-STP-GF-E	87	577	-63	0	0	3	27		
			BCP-STP-GF-F	87	592	-63	0	0	3	27		
			BCP-STP-GF-G	87	593	-63	0	0	3	27		
			BCP-FXO-GF-A	87	357	-59	0	-10	3	21		
BCP-FXO-GF-B	87	310	-58	0	0	3	32					
BCP-FXO-GF-C	87	311	-58	0	0	3	32					
BCP-FXO-GF-D	87	342	-59	0	-10	3	21					
											45	45

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Fixed Plant Noise Assessment

Appendix 4.10a

Boundary Control Point (BCP) (Night Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Nighttime Noise Criteria, dB(A)
V1	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	83	864	-67	0	0	3	19		
			BCP-PTB-GF-B	83	919	-67	0	-10	3	9		
			BCP-PTB-GF-C	83	883	-67	0	-10	3	9		
			BCP-PTB-GF-D	83	826	-66	0	0	3	20		
			BCP-PTB-1F-A	83	854	-67	0	0	3	19		
			BCP-PTB-1F-B	83	936	-67	0	-10	3	9		
			BCP-PTB-1F-C	83	872	-67	0	-10	3	9		
			BCP-PTB-1F-D	83	789	-66	0	0	3	20		
			BCP-PTB-2F-A	83	854	-67	0	0	3	19		
			BCP-PTB-2F-B	83	937	-67	0	-10	3	9		
			BCP-PTB-2F-C	83	872	-67	0	-10	3	9		
			BCP-PTB-2F-D	83	789	-66	0	0	3	20		
			BCP-PTB-3F-A	83	873	-67	0	0	3	19		
			BCP-PTB-3F-B	83	937	-67	0	-10	3	9		
			BCP-PTB-3F-C	83	890	-67	0	-10	3	9		
			BCP-PTB-3F-D	83	825	-66	0	0	3	20		
			BCP-PTB-4F-A	83	874	-67	0	0	3	19		
			BCP-PTB-4F-B	83	937	-67	0	-10	3	9		
			BCP-PTB-4F-C	83	891	-67	0	-10	3	9		
			BCP-PTB-4F-D	83	826	-66	0	0	3	20		
			BCP-HKP-GF-A	81	775	-66	0	-10	3	8		
			BCP-HKP-GF-B	81	767	-66	0	-10	3	8		
			BCP-HKP-GF-C	81	745	-65	0	0	3	19		
			BCP-HKP-GF-D	81	753	-66	0	0	3	18		
			BCP-FS-GF-A	81	784	-66	0	0	3	18		
			BCP-FS-GF-B	81	802	-66	0	-10	3	8		
			BCP-FS-GF-C	81	798	-66	0	-10	3	8		
			BCP-FS-GF-D	81	779	-66	0	0	3	18		
			BCP-FXI-GF-A	81	616	-64	0	-10	3	10		
			BCP-FXI-GF-B	81	537	-63	0	0	3	21		
			BCP-FXI-GF-C	81	470	-61	0	0	3	23		
			BCP-FXI-GF-D	81	548	-63	0	-10	3	11		
			BCP-STP-GF-A	87	312	-58	0	0	3	32		
			BCP-STP-GF-B	87	360	-59	0	0	3	31		
			BCP-STP-GF-C	87	450	-61	0	-10	3	19		
			BCP-STP-GF-D	87	499	-62	0	-10	3	18		
			BCP-STP-GF-E	87	431	-61	0	-10	3	19		
			BCP-STP-GF-F	87	351	-59	0	-10	3	21		
			BCP-STP-GF-G	87	325	-58	0	0	3	32		
			BCP-FXO-GF-A	87	835	-66	0	-10	3	14		
BCP-FXO-GF-B	87	761	-66	0	-10	3	14					
BCP-FXO-GF-C	87	681	-65	0	0	3	25					
BCP-FXO-GF-D	87	756	-66	0	0	3	24					
											38	45

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Fixed Plant Noise Assessment

Appendix 4.10a

Boundary Control Point (BCP) (Night Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Nighttime Noise Criteria, dB(A)
V2	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	83	907	-67	0	0	3	19		
			BCP-PTB-GF-B	83	959	-68	0	-10	3	8		
			BCP-PTB-GF-C	83	916	-67	0	-10	3	9		
			BCP-PTB-GF-D	83	863	-67	0	0	3	19		
			BCP-PTB-1F-A	83	897	-67	0	0	3	19		
			BCP-PTB-1F-B	83	975	-68	0	-10	3	8		
			BCP-PTB-1F-C	83	904	-67	0	-10	3	9		
			BCP-PTB-1F-D	83	824	-66	0	0	3	20		
			BCP-PTB-2F-A	83	897	-67	0	0	3	19		
			BCP-PTB-2F-B	83	976	-68	0	-10	3	8		
			BCP-PTB-2F-C	83	905	-67	0	-10	3	9		
			BCP-PTB-2F-D	83	824	-66	0	0	3	20		
			BCP-PTB-3F-A	83	916	-67	0	0	3	19		
			BCP-PTB-3F-B	83	976	-68	0	-10	3	8		
			BCP-PTB-3F-C	83	924	-67	0	-10	3	9		
			BCP-PTB-3F-D	83	862	-67	0	0	3	19		
			BCP-PTB-4F-A	83	916	-67	0	0	3	19		
			BCP-PTB-4F-B	83	976	-68	0	-10	3	8		
			BCP-PTB-4F-C	83	924	-67	0	-10	3	9		
			BCP-PTB-4F-D	83	862	-67	0	0	3	19		
			BCP-HKP-GF-A	81	792	-66	0	-10	3	8		
			BCP-HKP-GF-B	81	781	-66	0	-10	3	8		
			BCP-HKP-GF-C	81	760	-66	0	0	3	18		
			BCP-HKP-GF-D	81	772	-66	0	0	3	18		
			BCP-FS-GF-A	81	805	-66	0	0	3	18		
			BCP-FS-GF-B	81	821	-66	0	-10	3	8		
			BCP-FS-GF-C	81	813	-66	0	-10	3	8		
			BCP-FS-GF-D	81	797	-66	0	0	3	18		
			BCP-FXI-GF-A	81	627	-64	0	-10	3	10		
			BCP-FXI-GF-B	81	551	-63	0	0	3	21		
			BCP-FXI-GF-C	81	495	-62	0	0	3	22		
			BCP-FXI-GF-D	81	568	-63	0	-10	3	11		
			BCP-STP-GF-A	87	407	-60	0	0	3	30		
			BCP-STP-GF-B	87	463	-61	0	0	3	29		
			BCP-STP-GF-C	87	548	-63	0	-10	3	17		
			BCP-STP-GF-D	87	589	-63	0	-10	3	17		
			BCP-STP-GF-E	87	522	-62	0	-10	3	18		
			BCP-STP-GF-F	87	443	-61	0	-10	3	19		
			BCP-STP-GF-G	87	416	-60	0	0	3	30		
			BCP-FXO-GF-A	87	885	-67	0	-10	3	13		
BCP-FXO-GF-B	87	808	-66	0	0	3	24					
BCP-FXO-GF-C	87	730	-65	0	0	3	25					
BCP-FXO-GF-D	87	808	-66	0	0	3	24					
											37	45

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Appendix 4.10a

Boundary Control Point (BCP) (Night Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Nighttime Noise Criteria, dB(A)
CY3	Village House	Boundary Crossing Point Facilities	BCP-PTB-GF-A	83	925	-67	0	-10	3	9		
			BCP-PTB-GF-B	83	968	-68	0	-10	3	8		
			BCP-PTB-GF-C	83	916	-67	0	0	3	19		
			BCP-PTB-GF-D	83	872	-67	0	0	3	19		
			BCP-PTB-1F-A	83	913	-67	0	-10	3	9		
			BCP-PTB-1F-B	83	984	-68	0	-10	3	8		
			BCP-PTB-1F-C	83	905	-67	0	0	3	19		
			BCP-PTB-1F-D	83	832	-66	0	0	3	20		
			BCP-PTB-2F-A	83	913	-67	0	-10	3	9		
			BCP-PTB-2F-B	83	984	-68	0	-10	3	8		
			BCP-PTB-2F-C	83	905	-67	0	0	3	19		
			BCP-PTB-2F-D	83	832	-66	0	0	3	20		
			BCP-PTB-3F-A	83	932	-67	0	-10	3	9		
			BCP-PTB-3F-B	83	984	-68	0	-10	3	8		
			BCP-PTB-3F-C	83	924	-67	0	0	3	19		
			BCP-PTB-3F-D	83	870	-67	0	0	3	19		
			BCP-PTB-4F-A	83	932	-67	0	-10	3	9		
			BCP-PTB-4F-B	83	984	-68	0	-10	3	8		
			BCP-PTB-4F-C	83	924	-67	0	0	3	19		
			BCP-PTB-4F-D	83	870	-67	0	0	3	19		
			BCP-HKP-GF-A	81	772	-66	0	-10	3	8		
			BCP-HKP-GF-B	81	756	-66	0	0	3	18		
			BCP-HKP-GF-C	81	739	-65	0	0	3	19		
			BCP-HKP-GF-D	81	756	-66	0	0	3	18		
			BCP-FS-GF-A	81	790	-66	0	0	3	18		
			BCP-FS-GF-B	81	802	-66	0	-10	3	8		
			BCP-FS-GF-C	81	790	-66	0	0	3	18		
			BCP-FS-GF-D	81	777	-66	0	0	3	18		
			BCP-FXI-GF-A	81	607	-64	0	-10	3	10		
			BCP-FXI-GF-B	81	543	-63	0	0	3	21		
			BCP-FXI-GF-C	81	511	-62	0	0	3	22		
			BCP-FXI-GF-D	81	569	-63	0	-10	3	11		
			BCP-STP-GF-A	87	537	-63	0	0	3	27		
			BCP-STP-GF-B	87	601	-64	0	-10	3	16		
			BCP-STP-GF-C	87	673	-65	0	-10	3	15		
			BCP-STP-GF-D	87	698	-65	0	-10	3	15		
			BCP-STP-GF-E	87	636	-64	0	0	3	26		
			BCP-STP-GF-F	87	565	-63	0	0	3	27		
			BCP-STP-GF-G	87	538	-63	0	0	3	27		
			BCP-FXO-GF-A	87	915	-67	0	-10	3	13		
BCP-FXO-GF-B	87	836	-66	0	0	3	24					
BCP-FXO-GF-C	87	765	-66	0	0	3	24					
BCP-FXO-GF-D	87	844	-67	0	-10	3	13					
											36	45

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**Appendix 4.10b**

**North Tunnel North Portal (Daytime)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Daytime Noise Criteria, dB(A)
WKS6	Village House	Ventilation Building 1	VB1-A	102	140	-51	0	0	3	54	55	55
			VB1-B	107	167	-52	0	-10	3	48		
WKS7	Village House	Ventilation Building 1	VB1-A	102	143	-51	0	-10	3	44	50	55
			VB1-B	107	137	-51	0	-10	3	49		

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**Appendix 4.10b**

**North Tunnel North Portal (Evening Time)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Evening Noise Criteria, dB(A)
WKS6	Village House	Ventilation Building 1	VB1-A	99	140	-51	0	0	3	51	52	52
			VB1-B	104	167	-52	0	-10	3	45		
WKS7	Village House	Ventilation Building 1	VB1-A	99	143	-51	0	-10	3	41	47	52
			VB1-B	104	137	-51	0	-10	3	46		

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**Appendix 4.10b**

**North Tunnel North Portal (Night Time)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Nighttime Noise Criteria, dB(A)
WKS6	Village House	Ventilation Building 1	VB1-A	92	140	-51	0	0	3	44	45	45
			VB1-B	97	167	-52	0	-10	3	38		
WKS7	Village House	Ventilation Building 1	VB1-A	92	143	-51	0	-10	3	34	40	45
			VB1-B	97	137	-51	0	-10	3	39		

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**Appendix 4.10c**

**North Tunnel South Portal and Administration Building (Daytime)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Daytime Noise Criteria, dB(A)
ST1	Village House	Ventilation Building 2	VB2-A	107	159	-52	0	-10	3	48	52	54
			VB2-B	107	175	-53	0	-10	3	47		
		Administration Building	AB-A	95	146	-51	0	0	3	47		
			AB-B	95	171	-53	0	-10	3	35		
			AB-C	94	190	-54	0	-10	3	33		
ST2	Village House	Ventilation Building 2	VB2-A	107	189	-54	0	-10	3	46	53	54
			VB2-B	107	188	-53	0	-10	3	47		
		Administration Building	AB-A	95	133	-50	0	0	3	48		
			AB-B	95	153	-52	0	0	3	46		
			AB-C	94	177	-53	0	-10	3	34		
ST3	Village House	Ventilation Building 2	VB2-A	107	392	-60	0	-10	3	40	54	54
			VB2-B	107	393	-60	0	-10	3	40		
		Administration Building	AB-A	95	109	-49	0	-10	3	39		
			AB-B	95	87	-47	0	0	3	51		
			AB-C	94	85	-47	0	0	3	50		
TTW2	Village House	Ventilation Building 2	VB2-A	107	308	-58	0	-10	3	42	54	54
			VB2-B	107	281	-57	0	0	3	53		
		Administration Building	AB-A	95	280	-57	0	0	3	41		
			AB-B	95	285	-57	0	0	3	41		
			AB-C	94	308	-58	0	-10	3	29		



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**Appendix 4.10c**

**North Tunnel South Portal and Administration Building (Evening Time)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Evening Noise Criteria, dB(A)
ST1	Village House	Ventilation Building 2	VB2-A	100	159	-52	0	-10	3	41	45	47
			VB2-B	100	175	-53	0	-10	3	40		
		Administration Building	AB-A	88	146	-51	0	0	3	40		
			AB-B	88	171	-53	0	-10	3	28		
			AB-C	87	190	-54	0	-10	3	26		
ST2	Village House	Ventilation Building 2	VB2-A	100	189	-54	0	-10	3	39	46	47
			VB2-B	100	188	-53	0	-10	3	40		
		Administration Building	AB-A	88	133	-50	0	0	3	41		
			AB-B	88	153	-52	0	0	3	39		
			AB-C	87	177	-53	0	-10	3	27		
ST3	Village House	Ventilation Building 2	VB2-A	100	392	-60	0	-10	3	33	47	47
			VB2-B	100	393	-60	0	-10	3	33		
		Administration Building	AB-A	88	109	-49	0	-10	3	32		
			AB-B	88	87	-47	0	0	3	44		
			AB-C	87	85	-47	0	0	3	43		
TTW2	Village House	Ventilation Building 2	VB2-A	100	308	-58	0	-10	3	35	47	47
			VB2-B	100	281	-57	0	0	3	46		
		Administration Building	AB-A	88	280	-57	0	0	3	34		
			AB-B	88	285	-57	0	0	3	34		
			AB-C	87	308	-58	0	-10	3	22		

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**Appendix 4.10c**

**North Tunnel South Portal and Administration Building (Night Time)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Nighttime Noise Criteria, dB(A)
ST1	Village House	Ventilation Building 2	VB2-A	98	159	-52	0	-10	3	39	43	45
			VB2-B	98	175	-53	0	-10	3	38		
		Administration Building	AB-A	86	146	-51	0	0	3	38		
			AB-B	86	171	-53	0	-10	3	26		
AB-C	85	190	-54	0	-10	3	24					
ST2	Village House	Ventilation Building 2	VB2-A	98	189	-54	0	-10	3	37	44	45
			VB2-B	98	188	-53	0	-10	3	38		
		Administration Building	AB-A	86	133	-50	0	0	3	39		
			AB-B	86	153	-52	0	0	3	37		
AB-C	85	177	-53	0	-10	3	25					
ST3	Village House	Ventilation Building 2	VB2-A	98	392	-60	0	-10	3	31	45	45
			VB2-B	98	393	-60	0	-10	3	31		
		Administration Building	AB-A	86	109	-49	0	-10	3	30		
			AB-B	86	87	-47	0	0	3	42		
AB-C	85	85	-47	0	0	3	41					
TTW2	Village House	Ventilation Building 2	VB2-A	98	308	-58	0	-10	3	33	45	45
			VB2-B	98	281	-57	0	0	3	44		
		Administration Building	AB-A	86	280	-57	0	0	3	32		
			AB-B	86	285	-57	0	0	3	32		
AB-C	85	308	-58	0	-10	3	20					

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**Appendix 4.10d**

**South Tunnel North Portal (Daytime)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Daytime Noise Criteria, dB(A)
LT4	Village House	Ventilation Building 3	VB3-A VB3-B	107 107	194 195	-54 -54	0 0	-10 -10	3 3	46 46	49	49

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Appendix 4.10d

South Tunnel North Portal (Evening Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Evening Noise Criteria, dB(A)
LT4	Village House	Ventilation Building 3	VB3-A	102	194	-54	0	-10	3	41	44	44
			VB3-B	102	195	-54	0	-10	3	41		

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Appendix 4.10d

South Tunnel North Portal (Night Time)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Nighttime Noise Criteria, dB(A)
LT4	Village House	Ventilation Building 3	VB3-A	101	194	-54	0	-10	3	40	43	43
			VB3-B	101	195	-54	0	-10	3	40		

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Appendix 4.10e

South Tunnel South Portal (Daytime)

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Daytime Noise Criteria, dB(A)
TH1	Village House	Ventilation Building 4	VB4-A	115	132	-50	0	-10	3	58	65	65
			VB4-B	110	105	-48	0	0	3	65		
TH4	Village House	Ventilation Building 4	VB4-A	115	120	-50	0	-10	3	58	59	65
			VB4-B	110	154	-52	0	-10	3	51		

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**Appendix 4.10e**

**South Tunnel South Portal (Evening Time)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Evening Noise Criteria, dB(A)
TH1	Village House	Ventilation Building 4	VB4-A	115	132	-50	0	-10	3	58	65	65
			VB4-B	110	105	-48	0	0	3	65		
TH4	Village House	Ventilation Building 4	VB4-A	115	120	-50	0	-10	3	58	59	65
			VB4-B	110	154	-52	0	-10	3	51		

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**Appendix 4.10e**

**South Tunnel South Portal (Night Time)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, L <sub>eq(30min)</sub> , dB(A)	Resultant SPL, L <sub>eq(30min)</sub> , dB(A)	Nighttime Noise Criteria, dB(A)
TH1	Village House	Ventilation Building 4	VB4-A	105	132	-50	0	-10	3	48	55	55
			VB4-B	100	105	-48	0	0	3	55		
TH4	Village House	Ventilation Building 4	VB4-A	105	120	-50	0	-10	3	48	49	55
			VB4-B	100	154	-52	0	-10	3	41		



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**Appendix 4.10f**

**Mid-Ventilation Building (Daytime)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Daytime Noise Criteria, dB(A)
PKT1	Village House	Mid Ventilation Building	MVB-A	98	243	-56	0	0	3	45	45	46
PKT2	Village House	Mid Ventilation Building	MVB-A	98	67	-45	0	-10	3	46	46	46
PKT3	Village House	Mid Ventilation Building	MVB-A	98	111	-49	0	-10	3	42	42	46

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**Appendix 4.10f**

**Mid-Ventilation Building (Evening Time)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Evening Noise Criteria, dB(A)
PKT1	Village House	Mid Ventilation Building	MVB-A	88	243	-56	0	0	3	35	35	36
PKT2	Village House	Mid Ventilation Building	MVB-A	88	67	-45	0	-10	3	36	36	36
PKT3	Village House	Mid Ventilation Building	MVB-A	88	111	-49	0	-10	3	32	32	36

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**Appendix 4.10f**

**Mid-Ventilation Building (Night Time)**

NSR ID	Description	Plant Inventory	Source ID	SWL, dB(A)	Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A)	Facade Correction dB(A)	SPL, $L_{eq(30min)}$ , dB(A)	Resultant SPL, $L_{eq(30min)}$ , dB(A)	Nighttime Noise Criteria, dB(A)
PKT1	Village House	Mid Ventilation Building	MVB-A	88	243	-56	0	0	3	35	35	36
PKT2	Village House	Mid Ventilation Building	MVB-A	88	67	-45	0	-10	3	36	36	36
PKT3	Village House	Mid Ventilation Building	MVB-A	88	111	-49	0	-10	3	32	32	36