

Appendix 5.3 Fixed Plant Impact Assessment

Fixed Flant Noise Assessment for Daytime Period

NSR ID	NSR Description	Fixed Plant Source	Source ID	Source Height (mPD)	^SWL, dB(A)	Receiver Height (mPD)	Horizontal Distance (m)	Source - receiver	Distance (m)	Distance Attenuation dB(A)	#Screening Correction dB(A)	Facade Correction dB(A)	SPL, L _{eq(30min)} , dB(A)	Resultant SPL, L _{eq(30min)} , dB(A)	^Noise Criteria, dB(A)
N1	Village House No. 308, Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	90	22.2	83	17.3	85	-47	-10	3	36		
			FS2	39.5	90	22.2	73	17.3	75	-45	0	3	48		
			FS8	39.5	90	22.2	113	17.3	114	-49	-10	3	34		
			FS9	39.5	90	22.2	109	17.3	110	-49	-10	3	34		
		Inlet Air Louver of Tunnels Building	FS3	39.5	90	22.2	101	17.3	102	-48	-10	3	35		
			FS4	39.5	90	22.2	109	17.3	110	-49	-10	3	34		
			FS5	39.5	90	22.2	117	17.3	119	-49	-10	3	34		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	90	22.2	141	17.3	142	-51	-10	3	32		
			FS7	39.5	90	22.2	130	17.3	131	-50	-10	3	33		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	88	22.2	152	17.3	152	-52	-10	3	29		
			FS11	39.5	88	22.2	149	17.3	150	-52	-10	3	29		
			FS12	39.5	88	22.2	160	17.3	160	-52	-10	3	29		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	86	22.2	212	17.3	212	-55	-10	3	24		
			FS14	39.5	86	22.2	221	17.3	221	-55	-10	3	24		
			FS15	39.5	86	22.2	197	17.3	197	-54	-10	3	25		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	86	22.2	235	17.3	235	-55	-10	3	24		
			FS17	39.5	86	22.2	242	17.3	242	-56	-10	3	23		
			FS18	39.5	86	22.2	243	17.3	244	-56	-10	3	23		
			FS19	39.5	86	22.2	225	17.3	226	-55	-10	3	24		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	84	22.2	206	17.3	206	-54	-10	3	23		
			FS21	39.5	84	22.2	211	17.3	212	-55	-10	3	22		
			FS22	39.5	84	22.2	214	17.3	214	-55	-10	3	22		
			FS23	39.5	84	22.2	206	17.3	207	-54	-10	3	23	49	53
N2	Village House No. 319, Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	90	22.1	139	17.4	140	-51	-10	3	32		
			FS2	39.5	90	22.1	115	17.4	117	-49	0	3	44		
			FS8	39.5	90	22.1	157	17.4	158	-52	-10	3	31		
			FS9	39.5	90	22.1	156	17.4	157	-52	-10	3	31		
		Inlet Air Louver of Tunnels Building	FS3	39.5	90	22.1	103	17.4	104	-48	0	3	45		
			FS4	39.5	90	22.1	112	17.4	113	-49	0	3	44		
			FS5	39.5	90	22.1	126	17.4	127	-50	-10	3	33		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	90	22.1	155	17.4	156	-52	-10	3	31		
			FS7	39.5	90	22.1	160	17.4	160	-52	-10	3	31		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	88	22.1	164	17.4	165	-52	0	3	39		
			FS11	39.5	88	22.1	165	17.4	166	-52	-10	3	29		
			FS12	39.5	88	22.1	174	17.4	175	-53	0	3	38		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	86	22.1	223	17.4	224	-55	0	3	34		
			FS14	39.5	86	22.1	236	17.4	237	-55	-10	3	24		
			FS15	39.5	86	22.1	213	17.4	214	-55	-10	3	24		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	86	22.1	243	17.4	244	-56	-10	3	23		
			FS17	39.5	86	22.1	252	17.4	253	-56	-10	3	23		
			FS18	39.5	86	22.1	256	17.4	257	-56	-10	3	23		
			FS19	39.5	86	22.1	243	17.4	244	-56	-10	3	23		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	84	22.1	214	17.4	214	-55	0	3	32		
			FS21	39.5	84	22.1	219	17.4	219	-55	-10	3	22		
			FS22	39.5	84	22.1	223	17.4	224	-55	-10	3	22		
			FS23	39.5	84	22.1	217	17.4	217	-55	0	3	32	50	53
N3	Village House No. 265, Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	90	29.2	151	10.3	152	-52	0	3	41		
			FS2	39.5	90	29.2	163	10.3	163	-52	-10	3	31		
			FS8	39.5	90	29.2	121	10.3	121	-50	0	3	43		
			FS9	39.5	90	29.2	125	10.3	125	-50	0	3	43		
		Inlet Air Louver of Tunnels Building	FS3	39.5	90	29.2	176	10.3	176	-53	-10	3	30		
			FS4	39.5	90	29.2	168	10.3	168	-53	-10	3	30		
			FS5	39.5	90	29.2	154	10.3	154	-52	-10	3	31		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	90	29.2	128	10.3	128	-50	0	3	43		
			FS7	39.5	90	29.2	114	10.3	114	-49	0	3	44		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	88	29.2	122	10.3	123	-50	-10	3	31		
			FS11	39.5	88	29.2	117	10.3	118	-49	0	3	42		
			FS12	39.5	88	29.2	113	10.3	113	-49	0	3	42		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	86	29.2	98	10.3	99	-48	-10	3	31		
			FS14	39.5	86	29.2	86	10.3	86	-47	0	3	42		
			FS15	39.5	86	29.2	89	10.3	90	-47	0	3	42		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	86	29.2	105	10.3	106	-48	-10	3	31		
			FS17	39.5	86	29.2	100	10.3	100	-48	-10	3	31		
			FS18	39.5	86	29.2	92	10.3	93	-47	0	3	42		
			FS19	39.5	86	29.2	76	10.3	77	-46	0	3	43		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	84	29.2	109	10.3	110	-49	-10	3	28		
			FS21	39.5	84	29.2	110	10.3	110	-49	-10	3	28		
			FS22	39.5	84	29.2	104	10.3	104	-48	-10	3	29		
			FS23	39.5	84	29.2	102	10.3	103	-48	-10	3	29	53	53
N4	Village House in Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	90	22.8	284	16.7	284	-57	-10	3	26		
			FS2	39.5	90	22.8	274	16.7	275	-57	-10	3	26		
			FS8	39.5	90	22.8	252	16.7	253	-56	-10	3	27		
			FS9	39.5	90	22.8	260	16.7	260	-56	-10	3	27		
		Inlet Air Louver of Tunnels Building	FS3	39.5	90	22.8	242	16.7	243	-56	0	3	37		
			FS4	39.5	90	22.8	233	16.7	234	-55	0	3	38		
			FS5	39.5	90	22.8	224	16.7	224	-55	0	3	38		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	90	22.8	202	16.7	203	-54	0	3	39		
			FS7	39.5	90	22.8	222	16.7	222	-55	-10	3	28		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	88	22.8	191	16.7	192	-54	0	3	37		
			FS11	39.5	88	22.8	195	16.7	196	-54	-10	3	27		
			FS12	39.5	88	22.8	185	16.7	186	-53	0	3	38		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	86	22.8	137	16.7	138	-51	0	3	38		
			FS14	39.5	86	22.8	135	16.7	137	-51	0	3	38		
			FS15	39.5	86	22.8	155	16.7	156	-52	-10	3	27		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	86	22.8	114	16.7	116	-49	0	3	40		
			FS17	39.5	86	22.8	112	16.7	114	-49	0	3	40		
			FS18	39.5	86	22.8	116	16.7	117	-49	0	3	40		
			FS19	39.5	86	22.8	138	16.7	139	-51	-10	3	28		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	84	22.8	139	16.7	140	-51	-10	3	26		
			FS21	39.5	84	22.8	133	16.7	134	-51	0	3	36		
			FS22	39.5	84	22.8	133	16.7	134	-51	0	3	36		
			FS23	39.5	84	22.8	140	16.7	141	-51	-10	3	26	50	50

Fixed Flant Noise Assessment for Daytime Period

NSR ID	NSR Description	Fixed Plant Source	Source ID	Source Height (mPD)	^SWL, dB(A)	Receiver Height (mPD)	Horizontal Distance (m)	Source - receiver	Distance (m)	Distance Attenuation dB(A)	#Screening Correction dB(A)	Facade Correction dB(A)	SPL, L _{eq} (30min) _r dB(A)	Resultant SPL, L _{eq} (30min) _r dB(A)	^Noise Criteria, dB(A)
N5	Planned residential development in Kong Nga Po Comprehensive Development Area	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	90	41.4	398	-1.9	398	-60	-10	3	23		
			FS2	39.5	90	41.4	385	-1.9	385	-60	-10	3	23		
			FS8	39.5	90	41.4	368	-1.9	368	-59	-10	3	24		
			FS9	39.5	90	41.4	376	-1.9	376	-59	-10	3	24		
		Inlet Air Louver of Tunnels Building	FS3	39.5	90	41.4	344	-1.9	344	-59	0	3	34		
			FS4	39.5	90	41.4	336	-1.9	336	-59	0	3	34		
			FS5	39.5	90	41.4	329	-1.9	329	-58	0	3	35		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	90	41.4	312	-1.9	312	-58	0	3	35		
			FS7	39.5	90	41.4	336	-1.9	336	-59	-10	3	24		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	88	41.4	302	-1.9	303	-58	0	3	33		
			FS11	39.5	88	41.4	308	-1.9	308	-58	-10	3	23		
			FS12	39.5	88	41.4	298	-1.9	298	-57	0	3	34		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	86	41.4	255	-1.9	255	-56	0	3	33		
			FS14	39.5	86	41.4	256	-1.9	256	-56	0	3	33		
			FS15	39.5	86	41.4	274	-1.9	274	-57	-10	3	22		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	86	41.4	234	-1.9	234	-55	0	3	34		
			FS17	39.5	86	41.4	234	-1.9	234	-55	0	3	34		
			FS18	39.5	86	41.4	239	-1.9	239	-56	0	3	33		
			FS19	39.5	86	41.4	260	-1.9	260	-56	-10	3	23		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	84	41.4	254	-1.9	254	-56	-10	3	21		
			FS21	39.5	84	41.4	249	-1.9	249	-56	0	3	31		
			FS22	39.5	84	41.4	251	-1.9	251	-56	0	3	31		
			FS23	39.5	84	41.4	257	-1.9	257	-56	-10	3	21	45	50

Note:(#) While the NSR with no direct line of sight to the source/opening, a 10 dB(A) attenuation would be applied. All sources are calculated in the assessment for conservative approach.

Fixed Flant Noise Assessment for Evening Period

NSR ID	NSR Description	Fixed Plant Source	Source ID	Source Height (mPD)	^SWL, dB(A)	Receiver Height (mPD)	Horizontal Distance (m)	Source - receiver	Distance (m)	Distance Attenuation dB(A)	#Screening Correction dB(A)	Facade Correction dB(A)	SPL, L _{eq(30min)} , dB(A)	Resultant SPL, L _{eq(30min)} , dB(A)	^Noise Criteria, dB(A)
N1	Village House No. 308, Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	84	22.2	83	17.3	85	-47	-10	3	30		
			FS2	39.5	84	22.2	73	17.3	75	-45	0	3	42		
			FS8	39.5	84	22.2	113	17.3	114	-49	-10	3	28		
			FS9	39.5	84	22.2	109	17.3	110	-49	-10	3	28		
		Inlet Air Louver of Tunnels Building	FS3	39.5	84	22.2	101	17.3	102	-48	-10	3	29		
			FS4	39.5	84	22.2	109	17.3	110	-49	-10	3	28		
			FS5	39.5	84	22.2	117	17.3	119	-49	-10	3	28		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	84	22.2	141	17.3	142	-51	-10	3	26		
			FS7	39.5	84	22.2	130	17.3	131	-50	-10	3	27		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	84	22.2	152	17.3	152	-52	-10	3	25		
			FS11	39.5	84	22.2	149	17.3	150	-52	-10	3	25		
			FS12	39.5	84	22.2	160	17.3	160	-52	-10	3	25		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	82	22.2	212	17.3	212	-55	-10	3	20		
			FS14	39.5	82	22.2	221	17.3	221	-55	-10	3	20		
			FS15	39.5	82	22.2	197	17.3	197	-54	-10	3	21		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	80	22.2	235	17.3	235	-55	-10	3	18		
			FS17	39.5	80	22.2	242	17.3	242	-56	-10	3	17		
			FS18	39.5	80	22.2	243	17.3	244	-56	-10	3	17		
			FS19	39.5	80	22.2	225	17.3	226	-55	-10	3	18		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	82	22.2	206	17.3	206	-54	-10	3	21		
			FS21	39.5	82	22.2	211	17.3	212	-55	-10	3	20		
			FS22	39.5	82	22.2	214	17.3	214	-55	-10	3	20		
			FS23	39.5	82	22.2	206	17.3	207	-54	-10	3	21	43	55
N2	Village House No. 319, Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	84	22.1	139	17.4	140	-51	-10	3	26		
			FS2	39.5	84	22.1	115	17.4	117	-49	0	3	38		
			FS8	39.5	84	22.1	157	17.4	158	-52	-10	3	25		
			FS9	39.5	84	22.1	156	17.4	157	-52	-10	3	25		
		Inlet Air Louver of Tunnels Building	FS3	39.5	84	22.1	103	17.4	104	-48	0	3	39		
			FS4	39.5	84	22.1	112	17.4	113	-49	0	3	38		
			FS5	39.5	84	22.1	126	17.4	127	-50	-10	3	27		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	84	22.1	155	17.4	156	-52	-10	3	25		
			FS7	39.5	84	22.1	160	17.4	160	-52	-10	3	25		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	84	22.1	164	17.4	165	-52	0	3	35		
			FS11	39.5	84	22.1	165	17.4	166	-52	-10	3	25		
			FS12	39.5	84	22.1	174	17.4	175	-53	0	3	34		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	82	22.1	223	17.4	224	-55	0	3	30		
			FS14	39.5	82	22.1	236	17.4	237	-55	-10	3	20		
			FS15	39.5	82	22.1	213	17.4	214	-55	-10	3	20		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	80	22.1	243	17.4	244	-56	-10	3	17		
			FS17	39.5	80	22.1	252	17.4	253	-56	-10	3	17		
			FS18	39.5	80	22.1	256	17.4	257	-56	-10	3	17		
			FS19	39.5	80	22.1	243	17.4	244	-56	-10	3	17		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	82	22.1	214	17.4	214	-55	0	3	30		
			FS21	39.5	82	22.1	219	17.4	219	-55	-10	3	20		
			FS22	39.5	82	22.1	223	17.4	224	-55	-10	3	20		
			FS23	39.5	82	22.1	217	17.4	217	-55	0	3	30	45	55
N3	Village House No. 265, Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	84	29.2	151	10.3	152	-52	0	3	35		
			FS2	39.5	84	29.2	163	10.3	163	-52	-10	3	25		
			FS8	39.5	84	29.2	121	10.3	121	-50	0	3	37		
			FS9	39.5	84	29.2	125	10.3	125	-50	0	3	37		
		Inlet Air Louver of Tunnels Building	FS3	39.5	84	29.2	176	10.3	176	-53	-10	3	24		
			FS4	39.5	84	29.2	168	10.3	168	-53	-10	3	24		
			FS5	39.5	84	29.2	154	10.3	154	-52	-10	3	25		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	84	29.2	128	10.3	128	-50	0	3	37		
			FS7	39.5	84	29.2	114	10.3	114	-49	0	3	38		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	84	29.2	122	10.3	123	-50	-10	3	27		
			FS11	39.5	84	29.2	117	10.3	118	-49	0	3	38		
			FS12	39.5	84	29.2	113	10.3	113	-49	0	3	38		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	82	29.2	98	10.3	99	-48	-10	3	27		
			FS14	39.5	82	29.2	86	10.3	86	-47	0	3	38		
			FS15	39.5	82	29.2	89	10.3	90	-47	0	3	38		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	80	29.2	105	10.3	106	-48	-10	3	25		
			FS17	39.5	80	29.2	100	10.3	100	-48	-10	3	25		
			FS18	39.5	80	29.2	92	10.3	93	-47	0	3	36		
			FS19	39.5	80	29.2	76	10.3	77	-46	0	3	37		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	82	29.2	109	10.3	110	-49	-10	3	26		
			FS21	39.5	82	29.2	110	10.3	110	-49	-10	3	26		
			FS22	39.5	82	29.2	104	10.3	104	-48	-10	3	27		
			FS23	39.5	82	29.2	102	10.3	103	-48	-10	3	27	48	48
N4	Village House in Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	84	22.8	284	16.7	284	-57	-10	3	20		
			FS2	39.5	84	22.8	274	16.7	275	-57	-10	3	20		
			FS8	39.5	84	22.8	252	16.7	253	-56	-10	3	21		
			FS9	39.5	84	22.8	260	16.7	260	-56	-10	3	21		
		Inlet Air Louver of Tunnels Building	FS3	39.5	84	22.8	242	16.7	243	-56	0	3	31		
			FS4	39.5	84	22.8	233	16.7	234	-55	0	3	32		
			FS5	39.5	84	22.8	224	16.7	224	-55	0	3	32		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	84	22.8	202	16.7	203	-54	0	3	33		
			FS7	39.5	84	22.8	222	16.7	222	-55	-10	3	22		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	84	22.8	191	16.7	192	-54	0	3	33		
			FS11	39.5	84	22.8	195	16.7	196	-54	-10	3	23		
			FS12	39.5	84	22.8	185	16.7	186	-53	0	3	34		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	82	22.8	137	16.7	138	-51	0	3	34		
			FS14	39.5	82	22.8	135	16.7	137	-51	0	3	34		
			FS15	39.5	82	22.8	155	16.7	156	-52	-10	3	23		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	80	22.8	114	16.7	116	-49	0	3	34		
			FS17	39.5	80	22.8	112	16.7	114	-49	0	3	34		
			FS18	39.5	80	22.8	116	16.7	117	-49	0	3	34		
			FS19	39.5	80	22.8	138	16.7	139	-51	-10	3	22		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	82	22.8	139	16.7	140	-51	-10	3	24		
			FS21	39.5	82	22.8	133	16.7	134	-51	0	3	34		
			FS22	39.5	82	22.8	133	16.7	134	-51	0	3	34		
			FS23	39.5	82	22.8	140	16.7	141	-51	-10	3	24	45	51

Fixed Flant Noise Assessment for Evening Period

NSR ID	NSR Description	Fixed Plant Source	Source ID	Source Height (mPD)	^SWL, dB(A)	Receiver Height (mPD)	Horizontal Distance (m)	Source - receiver	Distance (m)	Distance Attenuation dB(A)	#Screening Correction dB(A)	Facade Correction dB(A)	SPL, L _{eq(30min)} , dB(A)	Resultant SPL, L _{eq(30min)} , dB(A)	^Noise Criteria, dB(A)
N5	Planned residential development in Kong Nga Po Comprehensive Development Area	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	84	41.4	398	-1.9	398	-60	-10	3	17		
			FS2	39.5	84	41.4	385	-1.9	385	-60	-10	3	17		
			FS8	39.5	84	41.4	368	-1.9	368	-59	-10	3	18		
			FS9	39.5	84	41.4	376	-1.9	376	-59	-10	3	18		
		Inlet Air Louver of Tunnels Building	FS3	39.5	84	41.4	344	-1.9	344	-59	0	3	28		
			FS4	39.5	84	41.4	336	-1.9	336	-59	0	3	28		
			FS5	39.5	84	41.4	329	-1.9	329	-58	0	3	29		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	84	41.4	312	-1.9	312	-58	0	3	29		
			FS7	39.5	84	41.4	336	-1.9	336	-59	-10	3	18		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	84	41.4	302	-1.9	303	-58	0	3	29		
			FS11	39.5	84	41.4	308	-1.9	308	-58	-10	3	19		
			FS12	39.5	84	41.4	298	-1.9	298	-57	0	3	30		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	82	41.4	255	-1.9	255	-56	0	3	29		
			FS14	39.5	82	41.4	256	-1.9	256	-56	0	3	29		
			FS15	39.5	82	41.4	274	-1.9	274	-57	-10	3	18		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	80	41.4	234	-1.9	234	-55	0	3	28		
			FS17	39.5	80	41.4	234	-1.9	234	-55	0	3	28		
			FS18	39.5	80	41.4	239	-1.9	239	-56	0	3	27		
			FS19	39.5	80	41.4	260	-1.9	260	-56	-10	3	17		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	82	41.4	254	-1.9	254	-56	-10	3	19		
			FS21	39.5	82	41.4	249	-1.9	249	-56	0	3	29		
			FS22	39.5	82	41.4	251	-1.9	251	-56	0	3	29		
			FS23	39.5	82	41.4	257	-1.9	257	-56	-10	3	19	40	51

Note:(#) While the NSR with no direct line of sight to the source/opening, a 10 dB(A) attenuation would be applied. All sources are calculated in the assessment for conservative approach.

Fixed Flant Noise Assessment for Night Time Period

NSR ID	NSR Description	Fixed Plant Source	Source ID	Source Height (mPD)	ΔSWL, dB(A)	Receiver Height (mPD)	Horizontal Distance (m)	Source - receiver	Distance (m)	Distance Attenuation dB(A)	#Screening Correction dB(A)	Facade Correction dB(A)	SPL, Leq(30min) dB(A)	Resultant SPL, Leq(30min) dB(A)	ΔNoise Criteria, dB(A)
N1	Village House No. 308, Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	80	22.2	83	17.3	85	-47	-10	3	26		
			FS2	39.5	80	22.2	73	17.3	75	-45	0	3	38		
			FS8	39.5	80	22.2	113	17.3	114	-49	-10	3	24		
			FS9	39.5	80	22.2	109	17.3	110	-49	-10	3	24		
		Inlet Air Louver of Tunnels Building	FS3	39.5	80	22.2	101	17.3	102	-48	-10	3	25		
			FS4	39.5	80	22.2	109	17.3	110	-49	-10	3	24		
			FS5	39.5	80	22.2	117	17.3	119	-49	-10	3	24		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	80	22.2	141	17.3	142	-51	-10	3	22		
			FS7	39.5	80	22.2	130	17.3	131	-50	-10	3	23		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	81	22.2	152	17.3	152	-52	-10	3	22		
			FS11	39.5	81	22.2	149	17.3	150	-52	-10	3	22		
			FS12	39.5	81	22.2	160	17.3	160	-52	-10	3	22		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	79	22.2	212	17.3	212	-55	-10	3	17		
			FS14	39.5	79	22.2	221	17.3	221	-55	-10	3	17		
			FS15	39.5	79	22.2	197	17.3	197	-54	-10	3	18		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	79	22.2	235	17.3	235	-55	-10	3	17		
			FS17	39.5	79	22.2	242	17.3	242	-56	-10	3	16		
			FS18	39.5	79	22.2	243	17.3	244	-56	-10	3	16		
			FS19	39.5	79	22.2	225	17.3	226	-55	-10	3	17		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	80	22.2	206	17.3	206	-54	-10	3	19		
			FS21	39.5	80	22.2	211	17.3	212	-55	-10	3	18		
			FS22	39.5	80	22.2	214	17.3	214	-55	-10	3	18		
			FS23	39.5	80	22.2	206	17.3	207	-54	-10	3	19	39	45
N2	Village House No. 319, Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	80	22.1	139	17.4	140	-51	-10	3	22		
			FS2	39.5	80	22.1	115	17.4	117	-49	0	3	34		
			FS8	39.5	80	22.1	157	17.4	158	-52	-10	3	21		
			FS9	39.5	80	22.1	156	17.4	157	-52	-10	3	21		
		Inlet Air Louver of Tunnels Building	FS3	39.5	80	22.1	103	17.4	104	-48	0	3	35		
			FS4	39.5	80	22.1	112	17.4	113	-49	0	3	34		
			FS5	39.5	80	22.1	126	17.4	127	-50	-10	3	23		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	80	22.1	155	17.4	156	-52	-10	3	21		
			FS7	39.5	80	22.1	160	17.4	160	-52	-10	3	21		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	81	22.1	164	17.4	165	-52	0	3	32		
			FS11	39.5	81	22.1	165	17.4	166	-52	-10	3	22		
			FS12	39.5	81	22.1	174	17.4	175	-53	0	3	31		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	79	22.1	223	17.4	224	-55	0	3	27		
			FS14	39.5	79	22.1	236	17.4	237	-55	-10	3	17		
			FS15	39.5	79	22.1	213	17.4	214	-55	-10	3	17		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	79	22.1	243	17.4	244	-56	-10	3	16		
			FS17	39.5	79	22.1	252	17.4	253	-56	-10	3	16		
			FS18	39.5	79	22.1	256	17.4	257	-56	-10	3	16		
			FS19	39.5	79	22.1	243	17.4	244	-56	-10	3	16		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	80	22.1	214	17.4	214	-55	0	3	28		
			FS21	39.5	80	22.1	219	17.4	219	-55	-10	3	18		
			FS22	39.5	80	22.1	223	17.4	224	-55	-10	3	18		
			FS23	39.5	80	22.1	217	17.4	217	-55	0	3	28	41	45
N3	Village House No. 265, Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	80	29.2	151	10.3	152	-52	0	3	31		
			FS2	39.5	80	29.2	163	10.3	163	-52	-10	3	21		
			FS8	39.5	80	29.2	121	10.3	121	-50	0	3	33		
			FS9	39.5	80	29.2	125	10.3	125	-50	0	3	33		
		Inlet Air Louver of Tunnels Building	FS3	39.5	80	29.2	176	10.3	176	-53	-10	3	20		
			FS4	39.5	80	29.2	168	10.3	168	-53	-10	3	20		
			FS5	39.5	80	29.2	154	10.3	154	-52	-10	3	21		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	80	29.2	128	10.3	128	-50	0	3	33		
			FS7	39.5	80	29.2	114	10.3	114	-49	0	3	34		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	81	29.2	122	10.3	123	-50	-10	3	24		
			FS11	39.5	81	29.2	117	10.3	118	-49	0	3	35		
			FS12	39.5	81	29.2	113	10.3	113	-49	0	3	35		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	79	29.2	98	10.3	99	-48	-10	3	24		
			FS14	39.5	79	29.2	86	10.3	86	-47	0	3	35		
			FS15	39.5	79	29.2	89	10.3	90	-47	0	3	35		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	79	29.2	105	10.3	106	-48	-10	3	24		
			FS17	39.5	79	29.2	100	10.3	100	-48	-10	3	24		
			FS18	39.5	79	29.2	92	10.3	93	-47	0	3	35		
			FS19	39.5	79	29.2	76	10.3	77	-46	0	3	36		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	80	29.2	109	10.3	110	-49	-10	3	24		
			FS21	39.5	80	29.2	110	10.3	110	-49	-10	3	24		
			FS22	39.5	80	29.2	104	10.3	104	-48	-10	3	25		
			FS23	39.5	80	29.2	102	10.3	103	-48	-10	3	25	45	45
N4	Village House in Sha Ling	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	80	22.8	284	16.7	284	-57	-10	3	16		
			FS2	39.5	80	22.8	274	16.7	275	-57	-10	3	16		
			FS8	39.5	80	22.8	252	16.7	253	-56	-10	3	17		
			FS9	39.5	80	22.8	260	16.7	260	-56	-10	3	17		
		Inlet Air Louver of Tunnels Building	FS3	39.5	80	22.8	242	16.7	243	-56	0	3	27		
			FS4	39.5	80	22.8	233	16.7	234	-55	0	3	28		
			FS5	39.5	80	22.8	224	16.7	224	-55	0	3	28		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS6	39.5	80	22.8	202	16.7	203	-54	0	3	29		
			FS7	39.5	80	22.8	222	16.7	222	-55	-10	3	18		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	81	22.8	191	16.7	192	-54	0	3	30		
			FS11	39.5	81	22.8	195	16.7	196	-54	-10	3	20		
			FS12	39.5	81	22.8	185	16.7	186	-53	0	3	31		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	79	22.8	137	16.7	138	-51	0	3	31		
			FS14	39.5	79	22.8	135	16.7	137	-51	0	3	31		
			FS15	39.5	79	22.8	155	16.7	156	-52	-10	3	20		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	79	22.8	114	16.7	116	-49	0	3	33		
			FS17	39.5	79	22.8	112	16.7	114	-49	0	3	33		
			FS18	39.5	79	22.8	116	16.7	117	-49	0	3	33		
			FS19	39.5	79	22.8	138	16.7	139	-51	-10	3	21		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	80	22.8	139	16.7	140	-51	-10	3	22		
			FS21	39.5	80	22.8	133	16.7	134	-51	0	3	32		
			FS22	39.5	80	22.8	133	16.7	134	-51	0	3	32		
			FS23	39.5	80	22.8	140	16.7	141	-51	-10	3	22	42	45

Fixed Flant Noise Assessment for Night Time Period

NSR ID	NSR Description	Fixed Plant Source	Source ID	Source Height (mPD)	^SWL, dB(A)	Receiver Height (mPD)	Horizontal Distance (m)	Source - receiver	Distance (m)	Distance Attenuation dB(A)	#Screening Correction dB(A)	Facade Correction dB(A)	SPL, L _{eq(30min)} dB(A)	Resultant SPL, L _{eq(30min)} dB(A)	^Noise Criteria, dB(A)
N5	Planned residential development in Kong Nga Po Comprehensive Development Area	Inlet Air Louver of Maturation, Screening, Storage Building	FS1	39.5	80	41.4	398	-1.9	398	-60	-10	3	13		
			FS2	39.5	80	41.4	385	-1.9	385	-60	-10	3	13		
			FS8	39.5	80	41.4	368	-1.9	368	-59	-10	3	14		
			FS9	39.5	80	41.4	376	-1.9	376	-59	-10	3	14		
		Inlet Air Louver of Tunnels Building	FS3	39.5	80	41.4	344	-1.9	344	-59	0	3	24		
			FS4	39.5	80	41.4	336	-1.9	336	-59	0	3	24		
		Inlet Air Louver of Compositing System and Waste Water Treatment Building	FS5	39.5	80	41.4	329	-1.9	329	-58	0	3	25		
			FS6	39.5	80	41.4	312	-1.9	312	-58	0	3	25		
			FS7	39.5	80	41.4	336	-1.9	336	-59	-10	3	14		
		Inlet Air Louver of Separator (Upper Level)	FS10	39.5	81	41.4	302	-1.9	303	-58	0	3	26		
			FS11	39.5	81	41.4	308	-1.9	308	-58	-10	3	16		
			FS12	39.5	81	41.4	298	-1.9	298	-57	0	3	27		
		Inlet Air Louver of Reception Zone within OWTF	FS13	39.5	79	41.4	255	-1.9	255	-56	0	3	26		
			FS14	39.5	79	41.4	256	-1.9	256	-56	0	3	26		
			FS15	39.5	79	41.4	274	-1.9	274	-57	-10	3	15		
		Inlet Air Louver of Pre-treatment Building	FS16	39.5	79	41.4	234	-1.9	234	-55	0	3	27		
			FS17	39.5	79	41.4	234	-1.9	234	-55	0	3	27		
			FS18	39.5	79	41.4	239	-1.9	239	-56	0	3	26		
			FS19	39.5	79	41.4	260	-1.9	260	-56	-10	3	16		
		Inlet Air Louver of CHP / Boiler	FS20	39.5	80	41.4	254	-1.9	254	-56	-10	3	17		
			FS21	39.5	80	41.4	249	-1.9	249	-56	0	3	27		
			FS22	39.5	80	41.4	251	-1.9	251	-56	0	3	27		
			FS23	39.5	80	41.4	257	-1.9	257	-56	-10	3	17		
														37	45

Note:(#) While the NSR with no direct line of sight to the source/opening, a 10 dB(A) attenuation would be applied. All sources are calculated in the assessment for conservative approach.