

Day-time and Evening Periods

Fixed Noise Sources Impact Assessment

NSR ID	Plant Inventory	Source ID	Maximum SWL, dB(A)	Horizontal Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A) ⁽²⁾	Facade Correction dB(A)	Barrier Correction dB(A) ⁽³⁾	SPL, L _{eq(30min)} , dB(A)	Resultant SPL, L _{eq(30min)} , dB(A)	Day-time & Evening Noise Criteria, dB(A)
NSR 8	Project STP	PSTP ⁽⁴⁾	92	34	-39	0	-10	3	0	46	47	51
	Existing STP	ESTP	73	301	-58	0	-10	3	0	8		
	Mai Po Ventilation Building ⁽¹⁾	North Elevation 1 (VS1)	77	154	-52	0	-10	3	0	18		
		North Elevation 2 (VS2)	77	169	-53	0	-10	3	0	17		
		East Elevation 1 (VS3)	84	179	-53	0	-10	3	0	24		
		East Elevation 2 (VS4)	84	181	-53	0	-10	3	0	24		
		South Elevation 1 (VS5)	89	156	-52	0	-10	3	0	30		
		South Elevation 2 (VS6)	89	165	-52	0	-10	3	0	30		
		South Elevation 3 (VS7)	89	176	-53	0	-10	3	0	29		
		West Elevation 1 (VS8)	79	146	-51	0	-10	3	0	21		
West Elevation 2 (VS9)	79	148	-51	0	-10	3	0	21				
NSR 9	Project STP	PSTP ⁽⁴⁾	92	59	-43	0	-10	3	0	42	43	51
	Existing STP	ESTP	73	328	-58	0	-10	3	0	8		
	Mai Po Ventilation Building ⁽¹⁾	North Elevation 1 (VS1)	77	140	-51	0	-10	3	0	19		
		North Elevation 2 (VS2)	77	154	-52	0	-10	3	0	18		
		East Elevation 1 (VS3)	84	164	-52	0	-10	3	0	25		
		East Elevation 2 (VS4)	84	167	-52	0	-10	3	0	25		
		South Elevation 1 (VS5)	89	145	-51	0	-10	3	0	31		
		South Elevation 2 (VS6)	89	153	-52	0	-10	3	0	30		
		South Elevation 3 (VS7)	89	163	-52	0	-10	3	0	30		
		West Elevation 1 (VS8)	79	133	-51	0	-10	3	0	21		
West Elevation 2 (VS9)	79	137	-51	0	-10	3	0	21				
NSR 10	Project STP	PSTP ⁽⁴⁾	92	61	-44	0	0	3	0	51	51	51
	Existing STP	ESTP	73	363	-59	0	-10	3	0	7		
	Mai Po Ventilation Building ⁽¹⁾	North Elevation 1 (VS1)	77	245	-56	0	-10	3	0	14		
		North Elevation 2 (VS2)	77	259	-56	0	-10	3	0	14		
		East Elevation 1 (VS3)	84	268	-57	0	-10	3	0	20		
		East Elevation 2 (VS4)	84	271	-57	0	-10	3	0	20		
		South Elevation 1 (VS5)	89	247	-56	0	-10	3	0	26		
		South Elevation 2 (VS6)	89	256	-56	0	-10	3	0	26		
		South Elevation 3 (VS7)	89	267	-57	0	-10	3	0	25		
		West Elevation 1 (VS8)	79	237	-55	0	-10	3	0	17		
West Elevation 2 (VS9)	79	240	-56	0	-10	3	0	16				

Note: (1) Maximum SWL is referenced from information provided by MTRC.

(2) -10 dB(A) screening correction is applied if the source has no line of sight from the sensitive façade, -5 dB(A) screening correction is applied if the source is directly adjacent to the sensitive building but has no line of sight from the sensitive façade.

(3) -10 dB(A) screening correction is applied if the source is completely blocked by noise barrier

(4) There is only one louver opening on the western facade of PSTP

Night-time Period

Fixed Noise Sources Impact Assessment

NSR ID	Plant Inventory	Source ID	Maximum SWL, dB(A)	Horizontal Distance (m)	Distance Attenuation dB(A)	Tonality Correction dB(A)	Screening Correction dB(A) ⁽²⁾	Facade Correction dB(A)	Barrier Correction dB(A) ⁽³⁾	SPL, L _{eq(30min)} , dB(A)	Resultant SPL, L _{eq(30min)} , dB(A)	Night-time Noise Criteria, dB(A)
NSR 8	Project STP	PSTP ⁽⁴⁾	86	34	-39	0	-10	3	0	40	41	45
	Existing STP	ESTP	73	301	-58	0	-10	3	0	8		
	Mai Po Ventilation Building ⁽¹⁾	North Elevation 1 (VS1)	75	154	-52	0	-10	3	0	16		
		North Elevation 2 (VS2)	75	169	-53	0	-10	3	0	15		
		East Elevation 1 (VS3)	78	179	-53	0	-10	3	0	18		
		East Elevation 2 (VS4)	78	181	-53	0	-10	3	0	18		
		South Elevation 1 (VS5)	84	156	-52	0	-10	3	0	25		
		South Elevation 2 (VS6)	84	165	-52	0	-10	3	0	25		
		South Elevation 3 (VS7)	84	176	-53	0	-10	3	0	24		
		West Elevation 1 (VS8)	75	146	-51	0	-10	3	0	17		
West Elevation 2 (VS9)	75	148	-51	0	-10	3	0	17				
NSR 9	Project STP	PSTP ⁽⁴⁾	86	59	-43	0	-10	3	0	36	37	45
	Existing STP	ESTP	73	328	-58	0	-10	3	0	8		
	Mai Po Ventilation Building ⁽¹⁾	North Elevation 1 (VS1)	75	140	-51	0	-10	3	0	17		
		North Elevation 2 (VS2)	75	154	-52	0	-10	3	0	16		
		East Elevation 1 (VS3)	78	164	-52	0	-10	3	0	19		
		East Elevation 2 (VS4)	78	167	-52	0	-10	3	0	19		
		South Elevation 1 (VS5)	84	145	-51	0	-10	3	0	26		
		South Elevation 2 (VS6)	84	153	-52	0	-10	3	0	25		
		South Elevation 3 (VS7)	84	163	-52	0	-10	3	0	25		
		West Elevation 1 (VS8)	75	133	-51	0	-10	3	0	17		
West Elevation 2 (VS9)	75	137	-51	0	-10	3	0	17				
NSR 10	Project STP	PSTP ⁽⁴⁾	86	61	-44	0	0	3	0	45	45	45
	Existing STP	ESTP	73	363	-59	0	-10	3	0	7		
	Mai Po Ventilation Building ⁽¹⁾	North Elevation 1 (VS1)	75	245	-56	0	-10	3	0	12		
		North Elevation 2 (VS2)	75	259	-56	0	-10	3	0	12		
		East Elevation 1 (VS3)	78	268	-57	0	-10	3	0	14		
		East Elevation 2 (VS4)	78	271	-57	0	-10	3	0	14		
		South Elevation 1 (VS5)	84	247	-56	0	-10	3	0	21		
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		South Elevation 3 (VS7)	84	267	-57	0	-10	3	0	20		
		West Elevation 1 (VS8)	75	237	-55	0	-10	3	0	13		
West Elevation 2 (VS9)	75	240	-56	0	-10	3	0	12				

Note: (1) Maximum SWL is referenced from information provided by MTRC.

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