

APPENDIX B2

Predicted Noise Level (Unmitigated)

Table B2-a: Site Formation (Phase I)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	125	210	-54	-5	+3	69
SR2		180	-53	-5	+3	70
SR3		170	-53	0	+3	75
SR4		210	-54	0	+3	74
SR5		280	-57	0	+3	71
SR6		75	-46	0	+3	82
SR7		180	-53	0	+3	75
SR8		220	-55	0	+3	73
SR9		280	-57	0	+3	71

Table B2-b: Construction of Building and/ or Cremators (Phase I)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	120	210	-54	-5	+3	64
SR2		180	-53	-5	+3	65
SR3		170	-53	0	+3	71
SR4		210	-54	0	+3	69
SR5		280	-57	0	+3	66
SR6		75	-46	0	+3	78
SR7		180	-53	0	+3	70
SR8		220	-55	0	+3	68
SR9		280	-57	0	+3	66

Note: SR1 and SR2 are shielded from both the Phase I and Phase II sites by a columbarium and a power transmission station, which locate in the midway between these two NSRs and the studied site. No direct line of sight is observed.

Predicted Noise Level (Unmitigated)

Table B2-c: Demolition (Phase II)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	127	170	-53	-5	+3	72
SR2		170	-53	-5	+3	72
SR3		160	-52	0	+3	78
SR4		220	-55	0	+3	75
SR5		290	-57	0	+3	73
SR6		110	-49	0	+3	81
SR7		260	-56	0	+3	74
SR8		300	-58	0	+3	72

Table B2-d: Site Formation (Phase II)

Bolded figures in the shaded cells exceed the EIA-TM daytime noise standard.

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Predicted Noise Level (Mitigated - Quiet Equipment)

Table B2-f: Site Formation (Phase I)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source,m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	121	210	-54	-5	+3	65
SR2		180	-53	-5	+3	66
SR3		170	-53	0	+3	72
SR4		210	-54	0	+3	70
SR5		280	-57	0	+3	67
SR6		75	-46	0	+3	79
SR7		180	-53	0	+3	71
SR8		220	-55	0	+3	69
SR9		280	-57	0	+3	67

Table B2-g: Construction of Building and/ or Cremators (Phase I)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source,m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	115	210	-54	-5	+3	58
SR2		180	-53	-5	+3	60
SR3		170	-53	0	+3	65
SR4		210	-54	0	+3	63
SR5		280	-57	0	+3	61
SR6		75	-46	0	+3	72
SR7		180	-53	0	+3	65
SR8		220	-55	0	+3	63
SR9		280	-57	0	+3	61

Note: SR1 and SR2 are shielded from both the Phase I and Phase II sites by a columbarium and a power transmission station, which locate in the midway between these two NSRs and the studied site. No direct line of sight is observed.

Note:

Bolded figures in the shaded cells exceed the EIA-TM daytime noise standard.

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Predicted Noise Level (Mitigated - Quiet Equipment)**Table B2-h: Demolition (Phase II)**

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source,m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	123	170	-53	-5	+3	69
SR2		170	-53	-5	+3	69
SR3		160	-52	0	+3	74
SR4		220	-55	0	+3	71
SR5		290	-57	0	+3	69
SR6		110	-49	0	+3	77
SR7		260	-56	0	+3	70
SR8		300	-58	0	+3	69

Table B2-i: Site Formation (Phase II)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source,m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	121	170	-53	-5	+3	67
SR2		170	-53	-5	+3	67
SR3		160	-52	0	+3	72
SR4		220	-55	0	+3	69
SR5		290	-57	0	+3	67
SR6		110	-49	0	+3	75
SR7		260	-56	0	+3	68
SR8		300	-58	0	+3	67

Table B2-j: Construction of Building and/ or Cremators (Phase II)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source,m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	115	170	-53	-5	+3	60
SR2		170	-53	-5	+3	60
SR3		160	-52	0	+3	66
SR4		220	-55	0	+3	63
SR5		290	-57	0	+3	61
SR6		110	-49	0	+3	69
SR7		260	-56	0	+3	62
SR8		300	-58	0	+3	60

Note: SR1 and SR2 are shielded from both the Phase I and Phase II sites by a columbarium and a power transmission station, which locate in the midway between these two NSRs and the studied site. No direct line of sight is observed.

Note:

Bolded figures in the shaded cells exceed the EIA-TM daytime noise standard.

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Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	125	170	-53	-5	+3	70
SR2		170	-53	-5	+3	70
SR3		160	-52	0	+3	76
SR4		220	-55	0	+3	73
SR5		290	-57	0	+3	71
SR6		110	-49	0	+3	79
SR7		260	-56	0	+3	72
SR8		300	-58	0	+3	70

Table B2-e: Construction of Building and/ or Cremators (Phase II)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR1	120	170	-53	-5	+3	66
SR2		170	-53	-5	+3	66
SR3		160	-52	0	+3	71
SR4		220	-55	0	+3	68
SR5		290	-57	0	+3	66
SR6		110	-49	0	+3	74
SR7		260	-56	0	+3	67
SR8		300	-58	0	+3	66

Note: SR1 and SR2 are shielded from both the Phase I and Phase II sites by a columbarium and a power transmission station, which locate in the midway between these two NSRs and the studied site. No direct line of sight is observed.

Note:

Bolded figures in the shaded cells exceed the EIA-TM daytime noise standard.

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Predicted Noise Level (Mitigated - Quiet Equipment+ Barrier for Site Formation and Demolition Works)

Table B2-k: Site Formation (Phase I)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source,m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR3	117	170	-53	0	+3	67
SR6		75	-46	0	+3	75

Table B2-l: Demolition (Phase II)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source,m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR3	119	160	-52	0	+3	70
SR4		220	-55	0	+3	67
SR6		110	-49	0	+3	73

Table B2-m: Site Formation (Phase II)

Representative NSRs	Total SWL, dB(A)	Horizontal Distance to Notional Source,m	Distance Correction, dB(A)	Barrier Correction (Screened by Building Structures), dB(A)	Façade Correction, dB(A)	Predicted Noise Level, dB(A)
SR3	117	160	-52	0	+3	68