Appendix 4.3A Construction Task ID and Description

Task ID	Task Description	Construction Schedule Start WK	Start D	End WK	End D
Plant Building					
PB Stage 1					
PB1050	Erect Hoarding	2	1	2	5
PB1055	Remove Trees	2	1	2	5
PB1060	Sheet Piles to Extg Stairs & VSZ	2	6	4	5
PB1080	Construct Vent Duct to VSZ	4	6	6	5
PB Stage 2					
PB1220	Pipe Piles/King Piles for Temp Entrance	6	6	10	6
PB1270	Construct Temporary Entrance (Part)	11	1	12	4
PB1280	Decking in front of Temp Entrance	11	1	12	4
PB Stage 3					
PB1320	Complete Temporary Entrance	12	5	15	1
PB1350	Stairs & Ramp on Haiphong Road	13	4	15	1
PB1370	Divert Utilities Nathan Road	15	3	17	5
PB1380	Pipe Piles & Sheet Piles Nathan Road	17	6	22	5
PB1390	Decking to Cofferdam	22	6	23	4
PB Stage 4					
PB1420	Remove Ramp at Haiphong Road	23	5	24	1
PB1450	Divert Utilities Haipong Road	24	2	27	3
PB1460	Demolish Part Existing Entrance A1	24	2	26	1
PB1480	Pipe Piles, King Piles to Cofferdam	26	2	30	2
PB Stage 5					
PB1540	Remove Stairs, Construct Staging at Haiphong Road	30	3	31	6
PB1550	Demolish Existing Entrance A1	32	1	35	6
PB1560	Pipe Piles, King Piles to Cofferdam	36	1	39	6
PB1570	Excavate Plant Building	40	1	53	2
PB1580	Earth Mat Installation 1	53	3	57	2
PB1590	Construct Plant Building	57	3	67	2
PB Stage 6					
PB1600	Complete Plant Building to Degree 2	67	3	72	2
Building Services					
PB2600	BS Installation	72	3	75	4
Entrance A1					
Construction					
PB1700	Complete PB Roof Ducts	72	3	75	4
PB1800	Entrance Structure	75	5	87	4
PB1810	Glass Canopy	87	5	94	2
PB1850	Remove Temporary Entrance	112	5	117	4
PB1900	Backfill and Reinstate Ground Level	121	1	124	2
E&M Systemwide Lifts & Escalators					
PB1830	Escalator Installation	94	3	109	2
PB1880	Lift Installation	94	3	109	2
TST Connection Chamber					
TTM Stage 1					
NS1140	Re-align Footpath & Lane Marking	1	2	2	5
NS1200	Erect Hoardings	4	4	4	5
NS1220	Investigate Utilities	4	6	8	1
NS1240	Install Cofferdam (1) & Ground Treatment	8	2	13	1
TTM Stage 2					
NS1270	Install Cofferdam (2)	14	1	17	2
NS1280	Install Struct and Traffic Deck (2)	17	3	18	6
NS1290	Excavate Shaft	19	1	25	4
TTM Stage 3					
NS3300	Construct Reception Chamber	25	5	32	2
NS3400	Backfill & Reinstate Ground Level	32	3	37	4

Task ID	Task Description	Construction Schedule Start WK	Start D	End WK	End D
Satellite Concourse					
TTM Stage 3					
SC1010	Dismantle Hoarding at TYB	19	1	19	2
SC1020	Traffic Diversions	19	1	21	2
SC1120	Erect Hoarding	21	4	21	6
SC1140	Investigate Utilities	22	1	24	2
SC1160	Install Pipe Pile Cofferdam	24	3	29	2
SC1180	Excavation and Support Utilities	26	1	29	2
SC1200	Excavate, Strut and Install Decking	29	3	32	4
SC1360	Re-erect TYB Hoarding	32	5	37	4
TTM Stage 4					
SC2000	Divert Nathan Road S/B Slow lane	32	5	36	1
SC2010	Erect Hoarding	36	1	37	4
SC2020	Investigate Utilities	37	4	38	5
SC2030	Install Pipe Pile Cofferdam	38	5	40	3
SC2035	Sewer (375 dia) Diversion	38	5	43	5
SC2040	Excavation and Support Utilities	40	3	42	2
SC2050	Excavate, Strut and Install Decking	42	2	45	5
TTM Stage 5 to 7					
SC2100	Divert Nathan Road S/B Slow lane	46	2	47	4
SC2125	Erect Hoarding	47	4	49	1
SC2130	Investigate Utilities	49	1	50	2
SC2133	Sewer Diversion	50	2	53	4
SC2135	Install Pipe Pile Cofferdam	50	2	51	6
SC2140	Excavation and Support Utilities	51	6	53	5
SC2145	Excavate, Strut and Install Decking	53	5	57	2
TTM Stage 8					
SC2180	Erect Hoarding	57	2	57	6
SC2200	Investigate Utilities	58	1	60	2
SC2220	Install Pipe Pile Cofferdam	60	3	67	2
SC2240	Excavation and Support Utilities	67	2	68	6
SC2260	Excavate, Strut and Install Decking	68	6	72	2
SC2280	Excavate 50% & Strut	73	3	75	6
SC2300	Grout Base of Excavation	75	6	78	6
SC2320	Excavate 100% & Strut	78	6	81	3
SC2360	Construct SC	109	1	118	6
SC2370	Complete SC to Degree 2	119	1	122	2
SC2380	Backfill & Reinstate SC	122	3	126	2
E&M Systemwide					
SC3001	E&M Installation in SC	122	3	132	2
Subway TST					
Construction					
ST1000	Excavate Subway	85	4	101	3
ST1120	Connection to TST Connection Chamber	101	4	105	5
ST1130	Lining to Subway	105	6	114	2
E&M Systemwide					
ST3001	E&M Installation in Subway TST	119	3	129	2
Subway MSC					
Construction					
SM1100	Excavate Subway	85	4	96	1
SM1120	Excavate MSC Junction	96	2	100	3
SM1140	Excavate to MSC Boundary	100	4	104	5
SM1150	Excavate to ES Shaft	100	4	104	5
SM1200	Lining to Subway	104	6	113	2
E&M SySMemwide					
SM3001	E&M Installation in Subway MSC	117	5	127	4
Emergency Stair at MSC					
Construction					
QM1140	Erect Hoarding	1	2	1	4
QM1150	Remove Trees	1	5	2	3
QM1160	Investigate Utilities	1	5	2	3
QM1180	Install Cofferdam	2	4	5	5
QM1200	Excavate and Support Utilities	5	6	6	4
QM1210	Traffic Deck	6	5	8	2
QM1220	Excavate ES Shaft	126	3	130	3
QM1260	Construction ES Shaft	130	4	135	3

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N1"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Construction Schedule Start Day	Construction Schedule End Wk	Construction Schedule End Day	Week Number 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
Plant Building																																																																											
PB Stage 1																																																																											
PB1050	109	19	-34	78	2	1	2	5		78																																																																		
PB1055	102	23	-35	70	2	1	2	5		70																																																																		
PB1060	89	31	-38	54	2	6	4	5		54	54	54																																																																
PB1080	113	38	-40	76	4	6	6	5				76	76	76																																																														
PB Stage 2																																																																											
PB1220	111	28	-37	77	6	6	10	6						77	77	77	77	77																																																										
PB1270	111	30	-37	77	11	1	12	4											77	77																																																								
PB1280	105	28	-37	71	11	1	12	4											71	71																																																								
PB Stage 3																																																																											
PB1320	111	29	-37	77	12	5	15	1												77	77	77	77																																																					
PB1350	105	19	-33	74	13	4	15	1													74	74	74																																																					
PB1370	113	23	-35	81	15	3	17	5															81	81	81																																																			
PB1380	111	23	-35	79	17	6	22	5																	79	79	79	79	79	79																																													
PB1390	103	26	-36	70	22	6	23	4																						70	70																																												
PB Stage 4																																																																											
PB1420	105	18	-33	75	23	5	24	1																							75	75																																											
PB1450	113	18	-33	83	24	2	27	3																								83	83	83	83																																								
PB1460	113	19	-34	82	24	2	26	1																								82	82	82																																									
PB1480	111	19	-34	80	26	2	30	2																										80	80	80	80	80																																					
PB Stage 5																																																																											
PB1540	105	14	-31	77	30	3	31	6																														77	77																																				
PB1550	113	24	-35	80	32	1	35	6																																80	80	80	80																																
PB1560	111	21	-34	80	36	1	39	6																																				80	80	80	80																												
PB1570	111	19	-34	81	40	1	53	2																																								81	81	81	81	81	81	81	81	81	81	81	81	81	81														
PB1580	81	19	-34	51	53	3	57	2																																																					51	51	51	51	51										
PB1590	105	19	-34	75	57	3	67	2																																																									75	75	75	75	75	75	75	75	75	75	75	
PB Stage 6																																																																											
PB1600	105	19	-34	75	67	3	72	2																																																																			75	75
Building Services																																																																											
PB2600	103	19	-34	72	72	3	75	4																																																																			
Entrance A1																																																																											
Construction																																																																											
PB1700	105	21	-35	74	72	3	75	4																																																																			
PB1800	111	21	-35	79	75	5	87	4																																																																			
PB1810	103	21	-34	71	87	5	94	2																																																																			
PB1850	105	30	-37	71	112	5	117	4																																																																			
PB1900	104	30	-37	70	121	1	124	2																																																																			
E&M Systemwide Lifts & Escalators																																																																											
PB1830	103	25	-36	70	94	3	109	2																																																																			
PB1880	103	25	-36	70	94	3	109	2																																																																			
TST Connection Chamber																																																																											
TTM Stage 1																																																																											
NS1140	113	83	-46	70	1	2	2	5	70	70																																																																		
NS1200	109	83	-46	66	4	4	4	5				66																																																																
NS1220	113	83	-46	70	4	6	8	1				70	70	70	70	70																																																												
NS1240	113	83	-46	70	8	2	13	1								70	70	70	70	70	70																																																						
TTM Stage 2																																																																											
NS1270	89	83	-46	45	14	1	17	2														45	45	45	45																																																		
NS1280	103	83	-46	60	17	3	18	6																	60	60																																																	
NS1290	106	83	-46	62	19	1	25	4																			62	62	62	62	62	62	62																																										
TTM Stage 3																																																																											
NS3300	105	83	-46	62	25	5	32	2																									62	62	62	62	62	62	62	62																																			
NS3400	104	83	-46	61	32	3	37	4																																61	61	61	61	61	61																														
Satellite Concourse																																																																											
TTM Stage 3																																																																											
SC1010	105	179	-53	55	19	1	19	2																			55																																																
SC1020	113	180	-53	63	19	1	21	2																			63	63	63																																														
SC1120	114	174	-53	65	21	4	21	6																					65																																														
SC1140	113	174	-53	63	22	1	24	2																						63	63	63																																											
SC1160	115	166	-52	66	24	3	29	2																								66	66	66	66	66	66																																						
SC1180	113	174	-53	63	26	1	29	2																										63	63	63	63																																						
SC1200	104	174	-53	54	29	3	32	4																													54	54	54	54																																			
SC1360	105	179	-53	55	32	5	37	4																																55	55	55	55	55	55																														

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N1"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
Plant Building								
PB Stage 1								
PB1050	109	19	-34	78	2	1	2	5
PB1055	102	23	-35	70	2	1	2	5
PB1060	89	31	-38	54	2	6	4	5
PB1080	113	38	-40	76	4	6	6	5
PB Stage 2								
PB1220	111	28	-37	77	6	6	10	6
PB1270	111	30	-37	77	11	1	12	4
PB1280	105	28	-37	71	11	1	12	4
PB Stage 3								
PB1320	111	29	-37	77	12	5	15	1
PB1350	105	19	-33	74	13	4	15	1
PB1370	113	23	-35	81	15	3	17	5
PB1380	111	23	-35	79	17	6	22	5
PB1390	103	26	-36	70	22	6	23	4
PB Stage 4								
PB1420	105	18	-33	75	23	5	24	1
PB1450	113	18	-33	83	24	2	27	3
PB1460	113	19	-34	82	24	2	26	1
PB1480	111	19	-34	80	26	2	30	2
PB Stage 5								
PB1540	105	14	-31	77	30	3	31	6
PB1550	113	24	-35	80	32	1	35	6
PB1560	111	21	-34	80	36	1	39	6
PB1570	111	19	-34	81	40	1	53	2
PB1580	81	19	-34	51	53	3	57	2
PB1590	105	19	-34	75	57	3	67	2
PB Stage 6								
PB1600	105	19	-34	75	67	3	72	2
Building Services								
PB2600	103	19	-34	72	72	3	75	4
Entrance A1								
Construction								
PB1700	105	21	-35	74	72	3	75	4
PB1800	111	21	-35	79	75	5	87	4
PB1810	103	21	-34	71	87	5	94	2
PB1850	105	30	-37	71	112	5	117	4
PB1900	104	30	-37	70	121	1	124	2
E&M Systemwide Lifts & Escalators								
PB1830	103	25	-36	70	94	3	109	2
PB1880	103	25	-36	70	94	3	109	2
TST Connection Chamber								
TTM Stage 1								
NS1140	113	83	-46	70	1	2	2	5
NS1200	109	83	-46	66	4	4	4	5
NS1220	113	83	-46	70	4	6	8	1
NS1240	113	83	-46	70	8	2	13	1
TTM Stage 2								
NS1270	89	83	-46	45	14	1	17	2
NS1280	103	83	-46	60	17	3	18	6
NS1290	106	83	-46	62	19	1	25	4
TTM Stage 3								
NS3300	105	83	-46	62	25	5	32	2
NS3400	104	83	-46	61	32	3	37	4
Satellite Concourse								
TTM Stage 3								
SC1010	105	179	-53	55	19	1	19	2
SC1020	113	180	-53	63	19	1	21	2
SC1120	114	174	-53	65	21	4	21	6
SC1140	113	174	-53	63	22	1	24	2
SC1160	115	166	-52	66	24	3	29	2
SC1180	113	174	-53	63	26	1	29	2
SC1200	104	174	-53	54	29	3	32	4
SC1360	105	179	-53	55	32	5	37	4

Week Number

Task	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101
PB1600	75	75	75	75																													
PB2600				72	72	72	72																										
PB1700				74	74	74	74																										
PB1800								79	79	79	79	79	79	79	79	79	79	79															
PB1810																			71	71	71	71	71	71	71	71							
PB1830																										70	70	70	70	70	70	70	70
PB1880																										70	70	70	70	70	70	70	70

Task	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
PB1850											71	71	71	71	71	71																		
PB1900																				70	70	70	70											
PB1830	70	70	70	70	70	70	70	70	70																									
PB1880	70	70	70	70	70	70	70	70	70																									

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N1"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	183	-53	63	32	5	36	1
SC2010	114	194	-54	64	36	1	37	4
SC2020	113	194	-54	62	37	4	38	5
SC2030	115	211	-54	64	38	5	40	3
SC2035	113	221	-55	61	38	5	43	5
SC2040	113	194	-54	62	40	3	42	2
SC2050	103	172	-53	54	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	183	-53	63	46	2	47	4
SC2125	114	169	-53	65	47	4	49	1
SC2130	113	169	-53	63	49	1	50	2
SC2133	113	201	-54	62	50	2	53	4
SC2135	115	174	-53	66	50	2	51	6
SC2140	113	174	-53	63	51	6	53	5
SC2145	104	174	-53	54	53	5	57	2
TTM Stage 8								
SC2180	114	169	-53	65	57	2	57	6
SC2200	113	169	-53	63	58	1	60	2
SC2220	115	183	-53	65	60	3	67	2
SC2240	113	183	-53	63	67	2	68	6
SC2260	104	169	-53	55	68	6	72	2
SC2280	112	169	-53	62	73	3	75	6
SC2300	99	169	-53	49	75	6	78	6
SC2320	112	169	-53	62	78	6	81	3
SC2360	105	169	-53	56	109	1	118	6
SC2370	105	169	-53	56	119	1	122	2
SC2380	105	169	-53	56	122	3	126	2
E&M Systemwide								
SC3001	103	183	-53	53	122	3	132	2
Subway TST								
Construction								
ST1000	112	89	-47	68	85	4	101	3
ST1120	110	89	-47	66	101	4	105	5
ST1130	100	89	-47	56	105	6	114	2
E&M Systemwide								
ST3001	103	89	-47	59	119	3	129	2
Subway MSC								
Construction								
SM1100	112	204	-54	61	85	4	96	1
SM1120	112	204	-54	61	96	2	100	3
SM1140	112	204	-54	61	100	4	104	5
SM1150	112	204	-54	61	100	4	104	5
SM1200	100	204	-54	49	104	6	113	2
E&M SySMemwide								
SM3001	103	204	-54	52	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	300	-58	60	1	2	1	4
QM1150	102	300	-58	47	1	5	2	3
QM1160	113	300	-58	58	1	5	2	3
QM1180	111	300	-58	57	2	4	5	5
QM1200	113	300	-58	58	5	6	6	4
QM1210	103	300	-58	49	6	5	8	2
QM1220	104	300	-58	50	126	3	130	3
QM1260	111	300	-58	56	130	4	135	3

Week Number

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
TTM Stage 4																																																																								
SC2000																																63	63	63	63	63																																		
SC2010																																				64	64																																			
SC2020																																					62	62																																		
SC2030																																						64	64	64																																	
SC2035																																						61	61	61	61	61	61																													
SC2040																																								62	62	62																														
SC2050																																									54	54	54	54																											
TTM Stage 5 to 7																																														63	63																									
SC2100																																															65	65	65																						
SC2125																																																	63	63																			
SC2130																																																	62	62	62	62																	
SC2133																																																	66	66																	
SC2135																																																		63	63	63															
SC2140																																																			54	54	54	54	54											
SC2145																																																																		
TTM Stage 8																																																								65											
SC2180																																																									63	63	63							
SC2200																																																											65	65	65	65	65	65	65	65	
SC2220																																																																	63	63
SC2240																																																																			55
SC2260																																																																			
SC2280																																																																			
SC2300																																																																			
SC2320																																																																			
SC2360																																																																			
SC2370																																																																			
SC2380																																																																			
E&M Systemwide																																																																			
SC3001																																																																			
Subway TST																																																																			
Construction																																																																			
ST1000																																																																			
ST1120																																																																			
ST1130																																																																			
E&M Systemwide																																																																			
ST3001																																																																			
Subway MSC																																																																			
Construction																																																																			
SM1100																																																																			
SM1120																																																																			
SM1140																																																																			
SM1150																																																																			
SM1200																																																																			
E&M SySMemwide																																																																			
SM3001																																																																			
Emergency Stair at MSC																																																																			
Construction																																																																			
QM1140	60																																																																		
QM1150	47	47																																																																	
QM1160		58																																																																	
QM1180		57	57	57	57																																																														
QM1200					58	58																																																												
QM1210						49	49	49																																																										
QM1220																																																																			
QM1260																																																																			
Worst Construction Noise Level during the Specific Week	70	80	58	77	77	80	78	79	78	78	78	81	79	79	83	81	83	79	79	79	79	80	77	86	86	87	85	81	81	82	78	81	81	81	81	80	80	80	80	81	81	81	81	81	81	81	81	81	81	81	81	81	81	56	56	56	75	75	75	75	75	75	75	75	75	75	78	75
Week Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N1"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	183	-53	63	32	5	36	1
SC2010	114	194	-54	64	36	1	37	4
SC2020	113	194	-54	62	37	4	38	5
SC2030	115	211	-54	64	38	5	40	3
SC2035	113	221	-55	61	38	5	43	5
SC2040	113	194	-54	62	40	3	42	2
SC2050	103	172	-53	54	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	183	-53	63	46	2	47	4
SC2125	114	169	-53	65	47	4	49	1
SC2130	113	169	-53	63	49	1	50	2
SC2133	113	201	-54	62	50	2	53	4
SC2135	115	174	-53	66	50	2	51	6
SC2140	113	174	-53	63	51	6	53	5
SC2145	104	174	-53	54	53	5	57	2
TTM Stage 8								
SC2180	114	169	-53	65	57	2	57	6
SC2200	113	169	-53	63	58	1	60	2
SC2220	115	183	-53	65	60	3	67	2
SC2240	113	183	-53	63	67	2	68	6
SC2260	104	169	-53	55	68	6	72	2
SC2280	112	169	-53	62	73	3	75	6
SC2300	99	169	-53	49	75	6	78	6
SC2320	112	169	-53	62	78	6	81	3
SC2360	105	169	-53	56	109	1	118	6
SC2370	105	169	-53	56	119	1	122	2
SC2380	105	169	-53	56	122	3	126	2
E&M Systemwide								
SC3001	103	183	-53	53	122	3	132	2
Subway TST								
Construction								
ST1000	112	89	-47	68	85	4	101	3
ST1120	110	89	-47	66	101	4	105	5
ST1130	100	89	-47	56	105	6	114	2
E&M Systemwide								
ST3001	103	89	-47	59	119	3	129	2
Subway MSC								
Construction								
SM1100	112	204	-54	61	85	4	96	1
SM1120	112	204	-54	61	96	2	100	3
SM1140	112	204	-54	61	100	4	104	5
SM1150	112	204	-54	61	100	4	104	5
SM1200	100	204	-54	49	104	6	113	2
E&M SySMemwide								
SM3001	103	204	-54	52	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	300	-58	60	1	2	1	4
QM1150	102	300	-58	47	1	5	2	3
QM1160	113	300	-58	58	1	5	2	3
QM1180	111	300	-58	57	2	4	5	5
QM1200	113	300	-58	58	5	6	6	4
QM1210	103	300	-58	49	6	5	8	2
QM1220	104	300	-58	50	126	3	130	3
QM1260	111	300	-58	56	130	4	135	3

Week Number

Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
SC2260	55	55	55	55																																																																
SC2280					62	62	62																																																												
SC2300							49	49	49	49																																																								
SC2320										62	62	62	62																																																						
SC2360																																									56	56	56	56	56	56	56	56	56	56																		
SC2370																																																			56	56	56	56													
SC2380																																																						56	56	56	56	56									
SC3001																																																						53	53	53	53	53	53	53	53	53	53	53			
ST1000																	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68																																					
ST1120																																	66	66	66	66	66																															
ST1130																																					56	56	56	56	56	56	56	56	56	56																							
ST3001																																																			59	59	59	59	59	59	59	59	59	59	59					
SM1100																	61	61	61	61	61	61	61	61	61	61	61	61																																									
SM1120																												61	61	61	61	61																																			
SM1140																																61	61	61	61	61																															
SM1150																																61	61	61	61	61																															
SM1200																																					49	49	49	49	49	49	49	49	49																							
SM3001																																																52	52	52	52	52	52	52	52	52	52	52									
QM1140																																																																			
QM1150																																																																			
QM1160																																																																			
QM1180																																																																			
QM1200																																																																			
QM1210																																																																			
QM1220																																																												50	50	50	50	50					
QM1260																																																																56	56	56	56	56	56	
Worst Construction Noise Level during the Specific Week	75	75	75	78	76	76	76	79	79	79	79	79	79	79	79	79	80	80	80	73	73	73	73	73	73	76	74	74	74	74	74	75	75	74	74	74	74	73	73	73	73	60	60	71	71	71	71	71	71	57	61	61	70	71	70	70	62	62	61	60	60	58	58	58	56	56	56

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N2"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
Plant Building								
PB Stage 1								
PB1050	109	34	-39	74	2	1	2	5
PB1055	102	41	-40	65	2	1	2	5
PB1060	89	38	-40	52	2	6	4	5
PB1080	113	36	-39	77	4	6	6	5
PB Stage 2								
PB1220	111	40	-40	74	6	6	10	6
PB1270	111	46	-41	73	11	1	12	4
PB1280	105	41	-40	67	11	1	12	4
PB Stage 3								
PB1320	111	44	-41	73	12	5	15	1
PB1350	105	53	-42	65	13	4	15	1
PB1370	113	35	-39	77	15	3	17	5
PB1380	111	35	-39	75	17	6	22	5
PB1390	103	35	-39	68	22	6	23	4
PB Stage 4								
PB1420	105	52	-42	66	23	5	24	1
PB1450	113	52	-42	74	24	2	27	3
PB1460	113	45	-41	75	24	2	26	1
PB1480	111	45	-41	73	26	2	30	2
PB Stage 5								
PB1540	105	52	-42	66	30	3	31	6
PB1550	113	53	-43	73	32	1	35	6
PB1560	111	52	-42	72	36	1	39	6
PB1570	111	45	-41	73	40	1	53	2
PB1580	81	45	-41	43	53	3	57	2
PB1590	105	45	-41	67	57	3	67	2
PB Stage 6								
PB1600	105	45	-41	67	67	3	72	2
Building Services								
PB2600	103	45	-41	65	72	3	75	4
Entrance A1								
Construction								
PB1700	105	48	-42	67	72	3	75	4
PB1800	111	48	-42	72	75	5	87	4
PB1810	103	46	-41	65	87	5	94	2
PB1850	105	45	-41	67	112	5	117	4
PB1900	104	45	-41	66	121	1	124	2
E&M Systemwide Lifts & Escalators								
PB1830	103	47	-41	64	94	3	109	2
PB1880	103	47	-41	64	94	3	109	2
TST Connection Chamber								
TTM Stage 1								
NS1140	113	35	-39	77	1	2	2	5
NS1200	109	35	-39	73	4	4	4	5
NS1220	113	35	-39	77	4	6	8	1
NS1240	113	35	-39	78	8	2	13	1
TTM Stage 2								
NS1270	89	35	-39	53	14	1	17	2
NS1280	103	35	-39	68	17	3	18	6
NS1290	106	35	-39	70	19	1	25	4
TTM Stage 3								
NS3300	105	35	-39	69	25	5	32	2
NS3400	104	35	-39	68	32	3	37	4
Satellite Concourse								
TTM Stage 3								
SC1010	105	128	-50	58	19	1	19	2
SC1020	113	133	-50	65	19	1	21	2
SC1120	114	124	-50	68	21	4	21	6
SC1140	113	124	-50	66	22	1	24	2
SC1160	115	116	-49	69	24	3	29	2
SC1180	113	124	-50	66	26	1	29	2
SC1200	104	124	-50	57	29	3	32	4
SC1360	105	128	-50	58	32	5	37	4

Week Number

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
Plant Building																																																																								
PB Stage 1																																																																									
PB1050		74																																																																							
PB1055		65																																																																						
PB1060		52	52	52																																																																				
PB1080				77	77	77																																																																	
PB Stage 2																																																																									
PB1220						74	74	74	74	74																																																											
PB1270											73	73																																																									
PB1280											67	67																																																									
PB Stage 3																																																																									
PB1320												73	73	73	73																																																									
PB1350													65	65	65																																																								
PB1370															77	77	77																																																						
PB1380																	75	75	75	75	75	75																																																
PB1390																						68	68																																															
PB Stage 4																																																																									
PB1420																							66	66																																															
PB1450																								74	74	74	74																																													
PB1460																								75	75	75																																													
PB1480																										73	73	73	73	73																																											
PB Stage 5																																																																									
PB1540																														66	66																																								
PB1550																																73	73	73	73																																		
PB1560																																				72	72	72	72																																
PB1570																																								73	73	73	73	73	73	73	73	73	73	73	73	73	73															
PB1580																																																				43	43	43	43	43												
PB1590																																																							67	67	67	67	67	67	67	67	67	67	67	
PB Stage 6																																																																									
PB1600																																																																									
Building Services																																																																									
PB2600																																																																									
Entrance A1																																																																									
Construction																																																																									
PB1700																																																																									
PB1800																																																																									
PB1810																																																																									
PB1850																																																																									
PB1900																																																																									
E&M Systemwide Lifts & Escalators																																																																									
PB1830																																																																									
PB1880																																																																									
TST Connection Chamber																																																																									
TTM Stage 1																																																																									
NS1140	77	77																																																																							
NS1200				73																																																																		
NS1220				77	77	77	77	77																																																												
NS1240								78	78	78	78	78	78																																																							
TTM Stage 2																																																																									
NS1270														53	53	53	53																																																						
NS1280																	68	68																																																			
NS1290																			70	70	70	70	70	70	70																																														
TTM Stage 3																																																																									
NS3300																									69	69	69	69	69	69	69	69																																										
NS3400																																68	68	68	68	68	68																																		
Satellite Concourse																																																																									
TTM Stage 3																																																																									
SC1010																			58																																																		
SC1020																			65	65	65																																																	
SC1120																					68																																																
SC1140																						66	66	66																																														
SC1160																								69	69	69	69	69	69																																									
SC1180																										66	66	66	66																																										
SC1200																													57	57	57	57																																			
SC1360																																58	58	58	58	58	58																														

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N2"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
Plant Building								
PB Stage 1								
PB1050	109	34	-39	74	2	1	2	5
PB1055	102	41	-40	65	2	1	2	5
PB1060	89	38	-40	52	2	6	4	5
PB1080	113	36	-39	77	4	6	6	5
PB Stage 2								
PB1220	111	40	-40	74	6	6	10	6
PB1270	111	46	-41	73	11	1	12	4
PB1280	105	41	-40	67	11	1	12	4
PB Stage 3								
PB1320	111	44	-41	73	12	5	15	1
PB1350	105	53	-42	65	13	4	15	1
PB1370	113	35	-39	77	15	3	17	5
PB1380	111	35	-39	75	17	6	22	5
PB1390	103	35	-39	68	22	6	23	4
PB Stage 4								
PB1420	105	52	-42	66	23	5	24	1
PB1450	113	52	-42	74	24	2	27	3
PB1460	113	45	-41	75	24	2	26	1
PB1480	111	45	-41	73	26	2	30	2
PB Stage 5								
PB1540	105	52	-42	66	30	3	31	6
PB1550	113	53	-43	73	32	1	35	6
PB1560	111	52	-42	72	36	1	39	6
PB1570	111	45	-41	73	40	1	53	2
PB1580	81	45	-41	43	53	3	57	2
PB1590	105	45	-41	67	57	3	67	2
PB Stage 6								
PB1600	105	45	-41	67	67	3	72	2
Building Services								
PB2600	103	45	-41	65	72	3	75	4
Entrance A1								
Construction								
PB1700	105	48	-42	67	72	3	75	4
PB1800	111	48	-42	72	75	5	87	4
PB1810	103	46	-41	65	87	5	94	2
PB1850	105	45	-41	67	112	5	117	4
PB1900	104	45	-41	66	121	1	124	2
E&M Systemwide Lifts & Escalators								
PB1830	103	47	-41	64	94	3	109	2
PB1880	103	47	-41	64	94	3	109	2
TST Connection Chamber								
TTM Stage 1								
NS1140	113	35	-39	77	1	2	2	5
NS1200	109	35	-39	73	4	4	4	5
NS1220	113	35	-39	77	4	6	8	1
NS1240	113	35	-39	78	8	2	13	1
TTM Stage 2								
NS1270	89	35	-39	53	14	1	17	2
NS1280	103	35	-39	68	17	3	18	6
NS1290	106	35	-39	70	19	1	25	4
TTM Stage 3								
NS3300	105	35	-39	69	25	5	32	2
NS3400	104	35	-39	68	32	3	37	4
Satellite Concourse								
TTM Stage 3								
SC1010	105	128	-50	58	19	1	19	2
SC1020	113	133	-50	65	19	1	21	2
SC1120	114	124	-50	68	21	4	21	6
SC1140	113	124	-50	66	22	1	24	2
SC1160	115	116	-49	69	24	3	29	2
SC1180	113	124	-50	66	26	1	29	2
SC1200	104	124	-50	57	29	3	32	4
SC1360	105	128	-50	58	32	5	37	4

Week Number (weeks 69–100)

Task	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PB1600	67	67	67	67																												
PB2600				65	65	65	65																									
PB1700				67	67	67	67																									
PB1800								72	72	72	72	72	72	72	72	72	72	72	72													
PB1810																			65	65	65	65	65	65	65	65						
PB1830																										64	64	64	64	64	64	64
PB1880																										64	64	64	64	64	64	64

Week Number (weeks 101–135)

Task	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
PB1850												67	67	67	67	67	67																		
PB1900																					66	66	66	66											
PB1830	64	64	64	64	64	64	64	64	64																										
PB1880	64	64	64	64	64	64	64	64	64																										

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N2"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	135	-51	65	32	5	36	1
SC2010	114	147	-51	66	36	1	37	4
SC2020	113	147	-51	65	37	4	38	5
SC2030	115	162	-52	66	38	5	40	3
SC2035	113	169	-53	63	38	5	43	5
SC2040	113	147	-51	65	40	3	42	2
SC2050	103	122	-50	57	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	135	-51	65	46	2	47	4
SC2125	114	117	-49	68	47	4	49	1
SC2130	113	117	-49	67	49	1	50	2
SC2133	113	152	-52	64	50	2	53	4
SC2135	115	126	-50	68	50	2	51	6
SC2140	113	126	-50	66	51	6	53	5
SC2145	104	126	-50	57	53	5	57	2
TTM Stage 8								
SC2180	114	118	-49	68	57	2	57	6
SC2200	113	118	-49	66	58	1	60	2
SC2220	115	134	-51	68	60	3	67	2
SC2240	113	134	-51	65	67	2	68	6
SC2260	104	118	-49	58	68	6	72	2
SC2280	112	118	-49	65	73	3	75	6
SC2300	99	118	-49	52	75	6	78	6
SC2320	112	118	-49	65	78	6	81	3
SC2360	105	118	-49	59	109	1	118	6
SC2370	105	118	-49	59	119	1	122	2
SC2380	105	118	-49	59	122	3	126	2
E&M Systemwide								
SC3001	103	134	-51	55	122	3	132	2
Subway TST								
Construction								
ST1000	112	42	-40	74	85	4	101	3
ST1120	110	42	-40	73	101	4	105	5
ST1130	100	42	-40	63	105	6	114	2
E&M Systemwide								
ST3001	103	42	-40	65	119	3	129	2
Subway MSC								
Construction								
SM1100	112	155	-52	63	85	4	96	1
SM1120	112	155	-52	63	96	2	100	3
SM1140	112	155	-52	63	100	4	104	5
SM1150	112	155	-52	63	100	4	104	5
SM1200	100	155	-52	52	104	6	113	2
E&M SySMemwide								
SM3001	103	155	-52	54	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	251	-56	61	1	2	1	4
QM1150	102	251	-56	49	1	5	2	3
QM1160	113	251	-56	60	1	5	2	3
QM1180	111	251	-56	58	2	4	5	5
QM1200	113	251	-56	60	5	6	6	4
QM1210	103	251	-56	50	6	5	8	2
QM1220	104	251	-56	51	126	3	130	3
QM1260	111	251	-56	58	130	4	135	3

Week Number

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
TTM Stage 4																																																																								
SC2000																																65	65	65	65	65																																		
SC2010																																				66	66																																		
SC2020																																					65	65																																	
SC2030																																						66	66	66																															
SC2035																																						63	63	63	63	63	63																											
SC2040																																								65	65	65																											
SC2050																																									57	57	57	57																									
TTM Stage 5 to 7																																													65	65																								
SC2100																																														68	68	68																			
SC2125																																																67	67																	
SC2130																																																	64	64	64	64													
SC2133																																																	68	68													
SC2135																																																		66	66	66										
SC2140																																																				57	57	57	57	57								
SC2145																																																																	
TTM Stage 8																																																								68										
SC2180																																																									66	66	66							
SC2200																																																											68	68	68	68	68	68	68	68	
SC2220																																																																65	65
SC2240																																																																	58
SC2260																																																																	
SC2280																																																																	
SC2300																																																																	
SC2320																																																																	
SC2360																																																																	
SC2370																																																																	
SC2380																																																																	
E&M Systemwide																																																																	
SC3001																																																																	
Subway TST																																																																	
Construction																																																																	
ST1000																																																																	
ST1120																																																																	
ST1130																																																																	
E&M Systemwide																																																																	
ST3001																																																																	
Subway MSC																																																																	
Construction																																																																	
SM1100																																																																	
SM1120																																																																	
SM1140																																																																	
SM1150																																																																	
SM1200																																																																	
E&M SySMemwide																																																																	
SM3001																																																																	
Emergency Stair at MSC																																																																	
Construction																																																																	
QM1140	61																																																																
QM1150	49	49																																																															
QM1160		60																																																															
QM1180		58	58	58	58																																																												
QM1200					60	60																																																										
QM1210						50	50	50																																																							
QM1220																																																																	
QM1260																																																																	
Worst Construction Noise Level during the Specific Week	77	79	59	81	80	81	79	81	79	79	79	80	79	74	79	77	80	76	77	77	77	77	74	79	79	80	78	76	76	75	71	76	75	75	75	75	75	73	73	75	74	74	74	73	73	74	75	74	75	75	75	74	74	57	57	57	71	70	70	72	71	71	71	71	71	71	73	70
Week Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N2"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	135	-51	65	32	5	36	1
SC2010	114	147	-51	66	36	1	37	4
SC2020	113	147	-51	65	37	4	38	5
SC2030	115	162	-52	66	38	5	40	3
SC2035	113	169	-53	63	38	5	43	5
SC2040	113	147	-51	65	40	3	42	2
SC2050	103	122	-50	57	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	135	-51	65	46	2	47	4
SC2125	114	117	-49	68	47	4	49	1
SC2130	113	117	-49	67	49	1	50	2
SC2133	113	152	-52	64	50	2	53	4
SC2135	115	126	-50	68	50	2	51	6
SC2140	113	126	-50	66	51	6	53	5
SC2145	104	126	-50	57	53	5	57	2
TTM Stage 8								
SC2180	114	118	-49	68	57	2	57	6
SC2200	113	118	-49	66	58	1	60	2
SC2220	115	134	-51	68	60	3	67	2
SC2240	113	134	-51	65	67	2	68	6
SC2260	104	118	-49	58	68	6	72	2
SC2280	112	118	-49	65	73	3	75	6
SC2300	99	118	-49	52	75	6	78	6
SC2320	112	118	-49	65	78	6	81	3
SC2360	105	118	-49	59	109	1	118	6
SC2370	105	118	-49	59	119	1	122	2
SC2380	105	118	-49	59	122	3	126	2
E&M Systemwide								
SC3001	103	134	-51	55	122	3	132	2
Subway TST								
Construction								
ST1000	112	42	-40	74	85	4	101	3
ST1120	110	42	-40	73	101	4	105	5
ST1130	100	42	-40	63	105	6	114	2
E&M Systemwide								
ST3001	103	42	-40	65	119	3	129	2
Subway MSC								
Construction								
SM1100	112	155	-52	63	85	4	96	1
SM1120	112	155	-52	63	96	2	100	3
SM1140	112	155	-52	63	100	4	104	5
SM1150	112	155	-52	63	100	4	104	5
SM1200	100	155	-52	52	104	6	113	2
E&M SySMemwide								
SM3001	103	155	-52	54	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	251	-56	61	1	2	1	4
QM1150	102	251	-56	49	1	5	2	3
QM1160	113	251	-56	60	1	5	2	3
QM1180	111	251	-56	58	2	4	5	5
QM1200	113	251	-56	60	5	6	6	4
QM1210	103	251	-56	50	6	5	8	2
QM1220	104	251	-56	51	126	3	130	3
QM1260	111	251	-56	58	130	4	135	3

Week Number

Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
SC2260	58	58	58	58																																																																
SC2280					65	65	65																																																												
SC2300							52	52	52	52																																																								
SC2320										65	65	65	65																																																						
SC2360																																									59	59	59	59	59	59	59	59	59	59																		
SC2370																																																			59	59	59	59														
SC2380																																																						59	59	59	59	59									
SC3001																																																						55	55	55	55	55	55	55	55	55	55	55			
ST1000																	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74																																						
ST1120																																	73	73	73	73	73																															
ST1130																																					63	63	63	63	63	63	63	63	63	63																							
ST3001																																																			65	65	65	65	65	65	65	65	65	65	65						
SM1100																	63	63	63	63	63	63	63	63	63	63	63	63																																									
SM1120																												63	63	63	63	63																																			
SM1140																																63	63	63	63	63																															
SM1150																																63	63	63	63	63																															
SM1200																																					52	52	52	52	52	52	52	52	52																							
SM3001																																																	54	54	54	54	54	54	54	54	54	54	54						
QM1140																																																																		
QM1150																																																																		
QM1160																																																																		
QM1180																																																																		
QM1200																																																																		
QM1210																																																																		
QM1220																																																												51	51	51	51	51				
QM1260																																																																58	58	58	58	58	58	
Worst Construction Noise Level during the Specific Week	68	68	68	71	70	70	70	72	72	73	73	73	73	72	72	72	77	77	77	75	75	75	75	75	75	76	75	76	75	75	75	76	78	75	75	75	74	69	69	69	69	65	65	69	69	69	68	68	68	60	67	67	69	70	70	70	67	67	66	66	66	60	60	60	58	58	58
Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N3"

	Sound Power	Slant	Distance	Corrected Noise	Construction Schedule				Week Number																																																																			
Task	Level dB(A)	Distance m	Correction dB(A)	Level dB(A)	Start Wk	Start Day	End Wk	End Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
Plant Building																																																																											
PB Stage 1																																																																											
PB1050	109	54	-43	69	2	1	2	5		69																																																																	
PB1055	102	61	-44	61	2	1	2	5		61																																																																	
PB1060	89	64	-44	47	2	6	4	5		47	47	47																																																															
PB1080	113	61	-44	72	4	6	6	5				72	72	72																																																													
PB Stage 2																																																																											
PB1220	111	69	-45	69	6	6	10	6						69	69	69	69	69																																																									
PB1270	111	72	-45	69	11	1	12	4												69	69																																																							
PB1280	105	68	-45	63	11	1	12	4												63	63																																																							
PB Stage 3																																																																											
PB1320	111	70	-45	69	12	5	15	1													69	69	69	69																																																				
PB1350	105	84	-46	61	13	4	15	1														61	61	61																																																				
PB1370	113	66	-44	72	15	3	17	5																72	72	72																																																		
PB1380	111	66	-44	70	17	6	22	5																		70	70	70	70	70	70																																													
PB1390	103	66	-44	62	22	6	23	4																					62	62																																												
PB Stage 4																																																																											
PB1420	105	83	-46	62	23	5	24	1																						62	62																																											
PB1450	113	83	-46	69	24	2	27	3																							69	69	69	69																																								
PB1460	113	76	-46	70	24	2	26	1																							70	70	70																																									
PB1480	111	76	-46	68	26	2	30	2																									68	68	68	68	68																																					
PB Stage 5																																																																											
PB1540	105	85	-47	62	30	3	31	6																													62	62																																				
PB1550	113	80	-46	70	32	1	35	6																															70	70	70	70																																
PB1560	111	79	-46	68	36	1	39	6																																			68	68	68	68																												
PB1570	111	76	-46	69	40	1	53	2																																							69	69	69	69	69	69	69	69	69	69	69	69	69	69														
PB1580	81	76	-46	39	53	3	57	2																																																				39	39	39	39	39										
PB1590	105	76	-46	63	57	3	67	2																																																								63	63	63	63	63	63	63	63	63	63	63	
PB Stage 6																																																																											
PB1600	105	76	-46	63	67	3	72	2																																																																		63	63
Building Services																																																																											
PB2600	103	76	-46	60	72	3	75	4																																																																			
Entrance A1																																																																											
Construction																																																																											
PB1700	105	78	-46	63	72	3	75	4																																																																			
PB1800	111	78	-46	68	75	5	87	4																																																																			
PB1810	103	76	-46	60	87	5	94	2																																																																			
PB1850	105	71	-45	63	112	5	117	4																																																																			
PB1900	104	71	-45	62	121	1	124	2																																																																			
E&M Systemwide Lifts & Escalators																																																																											
PB1830	103	76	-46	60	94	3	109	2																																																																			
PB1880	103	76	-46	60	94	3	109	2																																																																			
TST Connection Chamber																																																																											
TTM Stage 1																																																																											
NS1140	113	13	-30	86	1	2	2	5	86	86																																																																	
NS1200	109	13	-30	82	4	4	4	5				82																																																															
NS1220	113	13	-30	86	4	6	8	1				86	86	86	86	86																																																											
NS1240	113	13	-30	86	8	2	13	1								86	86	86	86	86	86																																																						
TTM Stage 2																																																																											
NS1270	89	13	-30	61	14	1	17	2													61	61	61	61																																																		
NS1280	103	13	-30	76	17	3	18	6																76	76																																																	
NS1290	106	13	-30	79	19	1	25	4																		79	79	79	79	79	79	79																																										
TTM Stage 3																																																																											
NS3300	105	13	-30	78	25	5	32	2																								78	78	78	78	78	78	78	78																																			
NS3400	104	13	-30	77	32	3	37	4																															77	77	77	77	77	77																														
Satellite Concourse																																																																											
TTM Stage 3																																																																											
SC1010	105	87	-47	62	19	1	19	2																		62																																																
SC1020	113	92	-47	69	19	1	21	2																		69	69	69																																														
SC1120	114	83	-46	71	21	4	21	6																				71																																														
SC1140	113	83	-46	70	22	1	24	2																					70	70	70																																											
SC1160	115	75	-45	73	24	3	29	2																							73	73	73	73	73	73																																						
SC1180	113	83	-46	70	26	1	29	2																									70	70	70	70																																						
SC1200	104	83	-46	61	29	3	32	4																												61	61	61	61																																			
SC1360	105	87	-47	62	32	5	37	4																															62	62	62	62	62	62																														

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N3"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
Plant Building								
PB Stage 1								
PB1050	109	54	-43	69	2	1	2	5
PB1055	102	61	-44	61	2	1	2	5
PB1060	89	64	-44	47	2	6	4	5
PB1080	113	61	-44	72	4	6	6	5
PB Stage 2								
PB1220	111	69	-45	69	6	6	10	6
PB1270	111	72	-45	69	11	1	12	4
PB1280	105	68	-45	63	11	1	12	4
PB Stage 3								
PB1320	111	70	-45	69	12	5	15	1
PB1350	105	84	-46	61	13	4	15	1
PB1370	113	66	-44	72	15	3	17	5
PB1380	111	66	-44	70	17	6	22	5
PB1390	103	66	-44	62	22	6	23	4
PB Stage 4								
PB1420	105	83	-46	62	23	5	24	1
PB1450	113	83	-46	69	24	2	27	3
PB1460	113	76	-46	70	24	2	26	1
PB1480	111	76	-46	68	26	2	30	2
PB Stage 5								
PB1540	105	85	-47	62	30	3	31	6
PB1550	113	80	-46	70	32	1	35	6
PB1560	111	79	-46	68	36	1	39	6
PB1570	111	76	-46	69	40	1	53	2
PB1580	81	76	-46	39	53	3	57	2
PB1590	105	76	-46	63	57	3	67	2
PB Stage 6								
PB1600	105	76	-46	63	67	3	72	2
Building Services								
PB2600	103	76	-46	60	72	3	75	4
Entrance A1								
Construction								
PB1700	105	78	-46	63	72	3	75	4
PB1800	111	78	-46	68	75	5	87	4
PB1810	103	76	-46	60	87	5	94	2
PB1850	105	71	-45	63	112	5	117	4
PB1900	104	71	-45	62	121	1	124	2
E&M Systemwide Lifts & Escalators								
PB1830	103	76	-46	60	94	3	109	2
PB1880	103	76	-46	60	94	3	109	2
TST Connection Chamber								
TTM Stage 1								
NS1140	113	13	-30	86	1	2	2	5
NS1200	109	13	-30	82	4	4	4	5
NS1220	113	13	-30	86	4	6	8	1
NS1240	113	13	-30	86	8	2	13	1
TTM Stage 2								
NS1270	89	13	-30	61	14	1	17	2
NS1280	103	13	-30	76	17	3	18	6
NS1290	106	13	-30	79	19	1	25	4
TTM Stage 3								
NS3300	105	13	-30	78	25	5	32	2
NS3400	104	13	-30	77	32	3	37	4
Satellite Concourse								
TTM Stage 3								
SC1010	105	87	-47	62	19	1	19	2
SC1020	113	92	-47	69	19	1	21	2
SC1120	114	83	-46	71	21	4	21	6
SC1140	113	83	-46	70	22	1	24	2
SC1160	115	75	-45	73	24	3	29	2
SC1180	113	83	-46	70	26	1	29	2
SC1200	104	83	-46	61	29	3	32	4
SC1360	105	87	-47	62	32	5	37	4

Week Number (weeks 69–101)

Task	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101
PB1600	63	63	63	63																													
PB2600				60	60	60	60																										
PB1700				63	63	63	63																										
PB1800								68	68	68	68	68	68	68	68	68	68	68	68														
PB1810																			60	60	60	60	60	60	60	60							
PB1830																										60	60	60	60	60	60	60	60
PB1880																										60	60	60	60	60	60	60	60

Week Number (weeks 102–135)

Task	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
PB1850											63	63	63	63	63	63																		
PB1900																				62	62	62	62											
PB1830	60	60	60	60	60	60	60	60																										
PB1880	60	60	60	60	60	60	60	60																										

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N3"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	94	-47	68	32	5	36	1
SC2010	114	105	-48	69	36	1	37	4
SC2020	113	105	-48	68	37	4	38	5
SC2030	115	120	-50	69	38	5	40	3
SC2035	113	125	-50	66	38	5	43	5
SC2040	113	105	-48	68	40	3	42	2
SC2050	103	81	-46	60	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	94	-47	68	46	2	47	4
SC2125	114	76	-46	72	47	4	49	1
SC2130	113	76	-46	70	49	1	50	2
SC2133	113	113	-49	67	50	2	53	4
SC2135	115	84	-47	72	50	2	51	6
SC2140	113	84	-47	69	51	6	53	5
SC2145	104	84	-47	61	53	5	57	2
TTM Stage 8								
SC2180	114	77	-46	72	57	2	57	6
SC2200	113	77	-46	70	58	1	60	2
SC2220	115	92	-47	71	60	3	67	2
SC2240	113	92	-47	69	67	2	68	6
SC2260	104	77	-46	62	68	6	72	2
SC2280	112	77	-46	69	73	3	75	6
SC2300	99	77	-46	56	75	6	78	6
SC2320	112	77	-46	69	78	6	81	3
SC2360	105	77	-46	63	109	1	118	6
SC2370	105	77	-46	63	119	1	122	2
SC2380	105	77	-46	63	122	3	126	2
E&M Systemwide								
SC3001	103	92	-47	58	122	3	132	2
Subway TST								
Construction								
ST1000	112	14	-31	84	85	4	101	3
ST1120	110	14	-31	82	101	4	105	5
ST1130	100	14	-31	72	105	6	114	2
E&M Systemwide								
ST3001	103	14	-31	75	119	3	129	2
Subway MSC								
Construction								
SM1100	112	113	-49	66	85	4	96	1
SM1120	112	113	-49	66	96	2	100	3
SM1140	112	113	-49	66	100	4	104	5
SM1150	112	113	-49	66	100	4	104	5
SM1200	100	113	-49	54	104	6	113	2
E&M SySMemwide								
SM3001	103	113	-49	57	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	210	-54	63	1	2	1	4
QM1150	102	210	-54	51	1	5	2	3
QM1160	113	210	-54	61	1	5	2	3
QM1180	111	210	-54	60	2	4	5	5
QM1200	113	210	-54	61	5	6	6	4
QM1210	103	210	-54	52	6	5	8	2
QM1220	104	210	-54	53	126	3	130	3
QM1260	111	210	-54	60	130	4	135	3

Week Number

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
TTM Stage 4																																																																								
SC2000																																68	68	68	68	68																																		
SC2010																																				69	69																																		
SC2020																																					68	68																																		
SC2030																																						69	69	69																																
SC2035																																						66	66	66	66	66	66																												
SC2040																																								68	68	68																													
SC2050																																									60	60	60	60																											
TTM Stage 5 to 7																																														68	68																								
SC2100																																															72	72	72																					
SC2125																																																	70	70																				
SC2130																																																		67	67	67	67																
SC2133																																																		72	72																		
SC2135																																																			69	69	69															
SC2140																																																				61	61	61	61	61										
SC2145																																																																	
TTM Stage 8																																																									72									
SC2180																																																										70	70	70						
SC2200																																																												71	71	71	71	71	71	71	71	
SC2220																																																																		69	69
SC2240																																																																			62
SC2260																																																																			
SC2280																																																																			
SC2300																																																																			
SC2320																																																																			
SC2360																																																																			
SC2370																																																																			
SC2380																																																																			
E&M Systemwide																																																																			
SC3001																																																																			
Subway TST																																																																			
Construction																																																																			
ST1000																																																																			
ST1120																																																																			
ST1130																																																																			
E&M Systemwide																																																																			
ST3001																																																																			
Subway MSC																																																																			
Construction																																																																			
SM1100																																																																			
SM1120																																																																			
SM1140																																																																			
SM1150																																																																			
SM1200																																																																			
E&M SySMemwide																																																																			
SM3001																																																																			
Emergency Stair at MSC																																																																			
Construction																																																																			
QM1140	63																																																																		
QM1150	51	51																																																																	
QM1160		61																																																																	
QM1180		60	60	60	60																																																														
QM1200					61	61																																																												
QM1210						52	52	52																																																										
QM1220																																																																			
QM1260																																																																			
Worst Construction Noise Level during the Specific Week	86	86	60	87	86	86	86	89	86	86	86	86	86	70	74	72	78	77	80	79	80	80	79	81	82	81	80	80	80	79	78	81	78	78	78	79	78	73	73	74	71	73	71	69	69	72	75	73	75	76	76	73	73	61	61	61	73	71	71	74	72	72	72	72	72	72	74	70
Week Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N3"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	94	-47	68	32	5	36	1
SC2010	114	105	-48	69	36	1	37	4
SC2020	113	105	-48	68	37	4	38	5
SC2030	115	120	-50	69	38	5	40	3
SC2035	113	125	-50	66	38	5	43	5
SC2040	113	105	-48	68	40	3	42	2
SC2050	103	81	-46	60	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	94	-47	68	46	2	47	4
SC2125	114	76	-46	72	47	4	49	1
SC2130	113	76	-46	70	49	1	50	2
SC2133	113	113	-49	67	50	2	53	4
SC2135	115	84	-47	72	50	2	51	6
SC2140	113	84	-47	69	51	6	53	5
SC2145	104	84	-47	61	53	5	57	2
TTM Stage 8								
SC2180	114	77	-46	72	57	2	57	6
SC2200	113	77	-46	70	58	1	60	2
SC2220	115	92	-47	71	60	3	67	2
SC2240	113	92	-47	69	67	2	68	6
SC2260	104	77	-46	62	68	6	72	2
SC2280	112	77	-46	69	73	3	75	6
SC2300	99	77	-46	56	75	6	78	6
SC2320	112	77	-46	69	78	6	81	3
SC2360	105	77	-46	63	109	1	118	6
SC2370	105	77	-46	63	119	1	122	2
SC2380	105	77	-46	63	122	3	126	2
E&M Systemwide								
SC3001	103	92	-47	58	122	3	132	2
Subway TST								
Construction								
ST1000	112	14	-31	84	85	4	101	3
ST1120	110	14	-31	82	101	4	105	5
ST1130	100	14	-31	72	105	6	114	2
E&M Systemwide								
ST3001	103	14	-31	75	119	3	129	2
Subway MSC								
Construction								
SM1100	112	113	-49	66	85	4	96	1
SM1120	112	113	-49	66	96	2	100	3
SM1140	112	113	-49	66	100	4	104	5
SM1150	112	113	-49	66	100	4	104	5
SM1200	100	113	-49	54	104	6	113	2
E&M SySMemwide								
SM3001	103	113	-49	57	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	210	-54	63	1	2	1	4
QM1150	102	210	-54	51	1	5	2	3
QM1160	113	210	-54	61	1	5	2	3
QM1180	111	210	-54	60	2	4	5	5
QM1200	113	210	-54	61	5	6	6	4
QM1210	103	210	-54	52	6	5	8	2
QM1220	104	210	-54	53	126	3	130	3
QM1260	111	210	-54	60	130	4	135	3

Week Number

Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
SC2260	62	62	62	62																																																																
SC2280					69	69	69																																																												
SC2300							56	56	56	56																																																								
SC2320										69	69	69	69																																																						
SC2360																																									63	63	63	63	63	63	63	63	63	63																			
SC2370																																																			63	63	63	63															
SC2380																																																						63	63	63	63	63										
SC3001																																																						58	58	58	58	58	58	58	58	58	58	58			
ST1000																	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84																																				
ST1120																																	82	82	82	82	82																															
ST1130																																					72	72	72	72	72	72	72	72	72	72																							
ST3001																																																		75	75	75	75	75	75	75	75	75	75	75						
SM1100																	66	66	66	66	66	66	66	66	66	66	66	66																																									
SM1120																												66	66	66	66	66																																			
SM1140																																66	66	66	66	66																															
SM1150																																66	66	66	66	66																															
SM1200																																					54	54	54	54	54	54	54	54	54																							
SM3001																																																57	57	57	57	57	57	57	57	57	57	57								
QM1220																																																										53	53	53	53	53				
QM1260																																																														60	60	60	60	60	60
Worst Construction Noise Level during the Specific Week	65	65	65	68	70	70	70	68	68	72	72	72	72	68	68	68	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	86	82	82	82	83	73	73	73	73	73	73	73	73	73	66	66	66	64	75	75	75	76	75	75	75	75	75	75	75	63	62	62	60	60	60
Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N4"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day	Week 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Plant Building																																										
PB Stage 1																																										
PB1050	109	95	-48	64	2	1	2	5		64																																
PB1055	102	101	-48	57	2	1	2	5		57																																
PB1060	89	106	-48	43	2	6	4	5		43	43	43																														
PB1080	113	102	-48	68	4	6	6	5				68	68	68																												
PB Stage 2																																										
PB1220	111	111	-49	65	6	6	10	6						65	65	65	65	65																								
PB1270	111	113	-49	65	11	1	12	4											65	65																						
PB1280	105	110	-49	59	11	1	12	4											59	59																						
PB Stage 3																																										
PB1320	111	112	-49	65	12	5	15	1												65	65	65	65																			
PB1350	105	126	-50	58	13	4	15	1													58	58	58																			
PB1370	113	110	-49	67	15	3	17	5															67	67	67																	
PB1380	111	110	-49	65	17	6	22	5																	65	65	65	65	65	65												
PB1390	103	109	-49	58	22	6	23	4																						58	58											
PB Stage 4																																										
PB1420	105	126	-50	58	23	5	24	1																							58	58										
PB1450	113	126	-50	66	24	2	27	3																								66	66	66	66							
PB1460	113	119	-50	66	24	2	26	1																								66	66	66								
PB1480	111	119	-50	65	26	2	30	2																										65	65	65	65	65				
PB Stage 5																																										
PB1540	105	128	-50	58	30	3	31	6																														58	58			
PB1550	113	121	-50	66	32	1	35	6																																66	66	66
PB1560	111	121	-50	64	36	1	39	6																																		
PB1570	111	119	-50	65	40	1	53	2																																		
PB1580	81	119	-50	35	53	3	57	2																																		
PB1590	105	119	-50	59	57	3	67	2																																		
PB Stage 6																																										
PB1600	105	119	-50	59	67	3	72	2																																		
Building Services																																										
PB2600	103	119	-50	56	72	3	75	4																																		
Entrance A1																																										
Construction																																										
PB1700	105	120	-50	59	72	3	75	4																																		
PB1800	111	120	-50	64	75	5	87	4																																		
PB1810	103	118	-49	56	87	5	94	2																																		
PB1850	105	112	-49	59	112	5	117	4																																		
PB1900	104	112	-49	58	121	1	124	2																																		
E&M Systemwide Lifts & Escalators																																										
PB1830	103	118	-49	56	94	3	109	2																																		
PB1880	103	118	-49	56	94	3	109	2																																		
TST Connection Chamber																																										
TTM Stage 1																																										
NS1140	113	48	-42	74	1	2	2	5	74	74																																
NS1200	109	48	-42	71	4	4	4	5				71																														
NS1220	113	48	-42	74	4	6	8	1				74	74	74	74	74																										
NS1240	113	48	-42	75	8	2	13	1								75	75	75	75	75	75																					
TTM Stage 2																																										
NS1270	89	48	-42	50	14	1	17	2														50	50	50	50																	
NS1280	103	48	-42	65	17	3	18	6																	65	65																
NS1290	106	48	-42	67	19	1	25	4																			67	67	67	67	67	67	67									
TTM Stage 3																																										
NS3300	105	48	-42	67	25	5	32	2																									67	67	67	67	67	67	67	67		
NS3400	104	48	-42	66	32	3	37	4																																66	66	66
Satellite Concourse																																										
TTM Stage 3																																										
SC1010	105	40	-40	68	19	1	19	2																			68															
SC1020	113	46	-41	75	19	1	21	2																			75	75	75													
SC1120	114	37	-39	78	21	4	21	6																					78													
SC1140	113	37	-39	77	22	1	24	2																						77	77	77										
SC1160	115	29	-37	81	24	3	29	2																								81	81	81	81	81	81					
SC1180	113	37	-39	77	26	1	29	2																										77	77	77	77					
SC1200	104	37	-39	68	29	3	32	4																													68	68	68	68		
SC1360	105	40	-40	68	32	5	37	4																																68	68	68

Task	Week 35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
PB1550	66																																	
PB1560		64	64	64	64																													
PB1570						65	65	65	65	65	65	65	65	65	65	65	65	65	65															
PB1580																			35	35	35	35	35											
PB1590																							59	59	59	59	59	59	59	59	59	59	59	
PB1600																																	59	59
NS3400	66	66	66																															
SC1360	68	68	68																															

All other task rows have no entries in weeks 35–68.

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N4"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
Plant Building								
PB Stage 1								
PB1050	109	95	-48	64	2	1	2	5
PB1055	102	101	-48	57	2	1	2	5
PB1060	89	106	-48	43	2	6	4	5
PB1080	113	102	-48	68	4	6	6	5
PB Stage 2								
PB1220	111	111	-49	65	6	6	10	6
PB1270	111	113	-49	65	11	1	12	4
PB1280	105	110	-49	59	11	1	12	4
PB Stage 3								
PB1320	111	112	-49	65	12	5	15	1
PB1350	105	126	-50	58	13	4	15	1
PB1370	113	110	-49	67	15	3	17	5
PB1380	111	110	-49	65	17	6	22	5
PB1390	103	109	-49	58	22	6	23	4
PB Stage 4								
PB1420	105	126	-50	58	23	5	24	1
PB1450	113	126	-50	66	24	2	27	3
PB1460	113	119	-50	66	24	2	26	1
PB1480	111	119	-50	65	26	2	30	2
PB Stage 5								
PB1540	105	128	-50	58	30	3	31	6
PB1550	113	121	-50	66	32	1	35	6
PB1560	111	121	-50	64	36	1	39	6
PB1570	111	119	-50	65	40	1	53	2
PB1580	81	119	-50	35	53	3	57	2
PB1590	105	119	-50	59	57	3	67	2
PB Stage 6								
PB1600	105	119	-50	59	67	3	72	2
Building Services								
PB2600	103	119	-50	56	72	3	75	4
Entrance A1								
Construction								
PB1700	105	120	-50	59	72	3	75	4
PB1800	111	120	-50	64	75	5	87	4
PB1810	103	118	-49	56	87	5	94	2
PB1850	105	112	-49	59	112	5	117	4
PB1900	104	112	-49	58	121	1	124	2
E&M Systemwide Lifts & Escalators								
PB1830	103	118	-49	56	94	3	109	2
PB1880	103	118	-49	56	94	3	109	2
TST Connection Chamber								
TTM Stage 1								
NS1140	113	48	-42	74	1	2	2	5
NS1200	109	48	-42	71	4	4	4	5
NS1220	113	48	-42	74	4	6	8	1
NS1240	113	48	-42	75	8	2	13	1
TTM Stage 2								
NS1270	89	48	-42	50	14	1	17	2
NS1280	103	48	-42	65	17	3	18	6
NS1290	106	48	-42	67	19	1	25	4
TTM Stage 3								
NS3300	105	48	-42	67	25	5	32	2
NS3400	104	48	-42	66	32	3	37	4
Satellite Concourse								
TTM Stage 3								
SC1010	105	40	-40	68	19	1	19	2
SC1020	113	46	-41	75	19	1	21	2
SC1120	114	37	-39	78	21	4	21	6
SC1140	113	37	-39	77	22	1	24	2
SC1160	115	29	-37	81	24	3	29	2
SC1180	113	37	-39	77	26	1	29	2
SC1200	104	37	-39	68	29	3	32	4
SC1360	105	40	-40	68	32	5	37	4

Week Number

Task	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
PB1600	59	59	59	59																																																															
PB2600				56	56	56	56																																																												
PB1700				59	59	59	59																																																											
PB1800								64	64	64	64	64	64	64	64	64	64	64																																																	
PB1810																			56	56	56	56	56	56	56	56																																										
PB1850																																												59	59	59	59	59	59																			
PB1900																																																					58	58	58	58											
PB1830																											56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56																									
PB1880																											56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56																									

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N4"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	48	-42	74	32	5	36	1
SC2010	114	58	-43	74	36	1	37	4
SC2020	113	58	-43	73	37	4	38	5
SC2030	115	73	-45	73	38	5	40	3
SC2035	113	80	-46	70	38	5	43	5
SC2040	113	58	-43	73	40	3	42	2
SC2050	103	35	-39	68	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	48	-42	74	46	2	47	4
SC2125	114	31	-38	80	47	4	49	1
SC2130	113	31	-38	78	49	1	50	2
SC2133	113	67	-44	71	50	2	53	4
SC2135	115	39	-40	79	50	2	51	6
SC2140	113	39	-40	76	51	6	53	5
SC2145	104	39	-40	67	53	5	57	2
TTM Stage 8								
SC2180	114	30	-38	80	57	2	57	6
SC2200	113	30	-38	78	58	1	60	2
SC2220	115	46	-41	77	60	3	67	2
SC2240	113	46	-41	75	67	2	68	6
SC2260	104	30	-38	70	68	6	72	2
SC2280	112	30	-38	77	73	3	75	6
SC2300	99	30	-38	64	75	6	78	6
SC2320	112	30	-38	77	78	6	81	3
SC2360	105	30	-38	71	109	1	118	6
SC2370	105	30	-38	71	119	1	122	2
SC2380	105	30	-38	71	122	3	126	2
E&M Systemwide								
SC3001	103	46	-41	65	122	3	132	2
Subway TST								
Construction								
ST1000	112	49	-42	73	85	4	101	3
ST1120	110	49	-42	71	101	4	105	5
ST1130	100	49	-42	62	105	6	114	2
E&M Systemwide								
ST3001	103	49	-42	64	119	3	129	2
Subway MSC								
Construction								
SM1100	112	67	-45	70	85	4	96	1
SM1120	112	67	-45	71	96	2	100	3
SM1140	112	67	-45	71	100	4	104	5
SM1150	112	67	-45	71	100	4	104	5
SM1200	100	67	-45	59	104	6	113	2
E&M SySMemwide								
SM3001	103	67	-45	61	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	163	-52	65	1	2	1	4
QM1150	102	163	-52	53	1	5	2	3
QM1160	113	163	-52	64	1	5	2	3
QM1180	111	163	-52	62	2	4	5	5
QM1200	113	163	-52	64	5	6	6	4
QM1210	103	163	-52	54	6	5	8	2
QM1220	104	163	-52	55	126	3	130	3
QM1260	111	163	-52	62	130	4	135	3

Week Number

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
TTM Stage 4																																																																								
SC2000																																74	74	74	74	74																																		
SC2010																																				74	74																																		
SC2020																																					73	73																																	
SC2030																																						73	73	73																															
SC2035																																						70	70	70	70	70	70																										
SC2040																																								73	73	73																											
SC2050																																										68	68	68	68																								
TTM Stage 5 to 7																																														74	74																							
SC2100																																															80	80	80																				
SC2125																																																	78	78																			
SC2130																																																		71	71	71	71															
SC2133																																																		79	79																	
SC2135																																																			76	76	76														
SC2140																																																				67	67	67	67	67									
SC2145																																																																	
TTM Stage 8																																																								80									
SC2180																																																									78	78	78						
SC2200																																																											77	77	77	77	77	77	77	77	
SC2220																																																																75	75
SC2240																																																																	70
SC2260																																																																	
SC2280																																																																	
SC2300																																																																	
SC2320																																																																	
SC2360																																																																	
SC2370																																																																	
SC2380																																																																	
E&M Systemwide																																																																	
SC3001																																																																	
Subway TST																																																																	
Construction																																																																	
ST1000																																																																	
ST1120																																																																	
ST1130																																																																	
E&M Systemwide																																																																	
ST3001																																																																	
Subway MSC																																																																	
Construction																																																																	
SM1100																																																																	
SM1120																																																																	
SM1140																																																																	
SM1150																																																																	
SM1200																																																																	
E&M SySMemwide																																																																	
SM3001																																																																	
Emergency Stair at MSC																																																																	
Construction																																																																	
QM1140	65																																																																
QM1150	53	53																																																															
QM1160		64																																																															
QM1180		62	62	62	62																																																												
QM1200					64	64																																																										
QM1210						54	54	54																																																							
QM1220																																																																	
QM1260																																																																	
Worst Construction Noise Level during the Specific Week	75	75	62	77	76	76	75	78	75	75	75	76	75	66	70	67	71	68	77	76	80	77	77	83	82	83	83	83	83	72	71	77	76	76	76	78	78	76	75	77	73	76	73	69	69	75	81	80	82	82	81	78	78	67	67	67	80	78	78	81	77	77	77	77	77	77	79	76
Week Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N4"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	48	-42	74	32	5	36	1
SC2010	114	58	-43	74	36	1	37	4
SC2020	113	58	-43	73	37	4	38	5
SC2030	115	73	-45	73	38	5	40	3
SC2035	113	80	-46	70	38	5	43	5
SC2040	113	58	-43	73	40	3	42	2
SC2050	103	35	-39	68	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	48	-42	74	46	2	47	4
SC2125	114	31	-38	80	47	4	49	1
SC2130	113	31	-38	78	49	1	50	2
SC2133	113	67	-44	71	50	2	53	4
SC2135	115	39	-40	79	50	2	51	6
SC2140	113	39	-40	76	51	6	53	5
SC2145	104	39	-40	67	53	5	57	2
TTM Stage 8								
SC2180	114	30	-38	80	57	2	57	6
SC2200	113	30	-38	78	58	1	60	2
SC2220	115	46	-41	77	60	3	67	2
SC2240	113	46	-41	75	67	2	68	6
SC2260	104	30	-38	70	68	6	72	2
SC2280	112	30	-38	77	73	3	75	6
SC2300	99	30	-38	64	75	6	78	6
SC2320	112	30	-38	77	78	6	81	3
SC2360	105	30	-38	71	109	1	118	6
SC2370	105	30	-38	71	119	1	122	2
SC2380	105	30	-38	71	122	3	126	2
E&M Systemwide								
SC3001	103	46	-41	65	122	3	132	2
Subway TST								
Construction								
ST1000	112	49	-42	73	85	4	101	3
ST1120	110	49	-42	71	101	4	105	5
ST1130	100	49	-42	62	105	6	114	2
E&M Systemwide								
ST3001	103	49	-42	64	119	3	129	2
Subway MSC								
Construction								
SM1100	112	67	-45	70	85	4	96	1
SM1120	112	67	-45	71	96	2	100	3
SM1140	112	67	-45	71	100	4	104	5
SM1150	112	67	-45	71	100	4	104	5
SM1200	100	67	-45	59	104	6	113	2
E&M SySMemwide								
SM3001	103	67	-45	61	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	163	-52	65	1	2	1	4
QM1150	102	163	-52	53	1	5	2	3
QM1160	113	163	-52	64	1	5	2	3
QM1180	111	163	-52	62	2	4	5	5
QM1200	113	163	-52	64	5	6	6	4
QM1210	103	163	-52	54	6	5	8	2
QM1220	104	163	-52	55	126	3	130	3
QM1260	111	163	-52	62	130	4	135	3

Week Number

Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
SC2260	70	70	70	70																																																																
SC2280					77	77	77																																																												
SC2300							64	64	64	64																																																								
SC2320										77	77	77	77																																																					
SC2360																																									71	71	71	71	71	71	71	71	71	71																		
SC2370																																																			71	71	71	71														
SC2380																																																						71	71	71	71	71										
SC3001																																																						65	65	65	65	65	65	65	65	65	65	65			
ST1000																	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73																																					
ST1120																																	71	71	71	71	71																															
ST1130																																					62	62	62	62	62	62	62	62	62	62																							
ST3001																																																			64	64	64	64	64	64	64	64	64	64	64							
SM1100																	70	70	70	70	70	70	70	70	70	70	70	70																																										
SM1120																												71	71	71	71	71																																				
SM1140																																71	71	71	71	71																															
SM1150																																71	71	71	71	71																															
SM1200																																					59	59	59	59	59	59	59	59	59																							
SM3001																																																61	61	61	61	61	61	61	61	61	61	61							
QM1140																																																																		
QM1150																																																																	
QM1160																																																																	
QM1180																																																																	
QM1200																																																																	
QM1210																																																																	
QM1220																																																												55	55	55	55	55			
QM1260																																																																62	62	62	62	62	62	
Worst Construction Noise Level during the Specific Week	70	70	70	70	77	77	77	67	67	77	77	77	77	64	64	64	75	75	75	75	75	75	75	75	75	75	75	76	75	75	75	77	78	76	76	76	72	65	65	65	72	71	71	72	72	71	71	71	71	71	72	72	72	75	73	73	73	73	68	67	67	67	66	66	62	62	62
Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N5"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day	Week Number 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
Plant Building
PB Stage 1
PB1050	109	101	-48	64	2	1	2	5		64
PB1055	102	107	-49	56	2	1	2	5		56
PB1060	89	112	-49	43	2	6	4	5		43	43	43
PB1080	113	108	-49	67	4	6	6	5				67	67	67
PB Stage 2
PB1220	111	117	-49	65	6	6	10	6						65	65	65	65	65
PB1270	111	119	-49	65	11	1	12	4											65	65
PB1280	105	116	-49	58	11	1	12	4											58	58
PB Stage 3
PB1320	111	118	-49	65	12	5	15	1												65	65	65	65
PB1350	105	133	-50	57	13	4	15	1													57	57	57
PB1370	113	117	-49	67	15	3	17	5															67	67	67
PB1380	111	117	-49	65	17	6	22	5																	65	65	65	65	65	65
PB1390	103	116	-49	57	22	6	23	4																						57	57
PB Stage 4
PB1420	105	132	-50	58	23	5	24	1																							58	58
PB1450	113	132	-50	66	24	2	27	3																								66	66	66	66
PB1460	113	125	-50	66	24	2	26	1																								66	66	66
PB1480	111	125	-50	64	26	2	30	2																										64	64	64	64	64
PB Stage 5
PB1540	105	135	-51	58	30	3	31	6																														58	58
PB1550	113	127	-50	66	32	1	35	6																																66	66	66	66
PB1560	111	127	-50	64	36	1	39	6																																				64	64	64	64
PB1570	111	125	-50	64	40	1	53	2																																								64	64	64	64	64	64	64	64	64	64	64	64	64	64
PB1580	81	125	-50	34	53	3	57	2																																																								34	34	34	34	34
PB1590	105	125	-50	58	57	3	67	2																																																												58	58	58	58	58	58	58	58	58	58	58
PB Stage 6
PB1600	105	125	-50	58	67	3	72	2																																																																		58	58
Building Services
PB2600	103	125	-50	56	72	3	75	4
Entrance A1
Construction
PB1700	105	126	-50	58	72	3	75	4
PB1800	111	126	-50	64	75	5	87	4
PB1810	103	125	-50	56	87	5	94	2
PB1850	105	119	-49	59	112	5	117	4
PB1900	104	119	-49	58	121	1	124	2
E&M Systemwide Lifts & Escalators
PB1830	103	125	-50	56	94	3	109	2
PB1880	103	125	-50	56	94	3	109	2
TST Connection Chamber
TTM Stage 1
NS1140	113	54	-43	73	1	2	2	5	73	73
NS1200	109	54	-43	69	4	4	4	5				69
NS1220	113	54	-43	73	4	6	8	1				73	73	73	73	73
NS1240	113	54	-43	74	8	2	13	1								74	74	74	74	74	74
TTM Stage 2
NS1270	89	54	-43	49	14	1	17	2														49	49	49	49
NS1280	103	54	-43	64	17	3	18	6																	64	64
NS1290	106	54	-43	66	19	1	25	4																			66	66	66	66	66	66	66
TTM Stage 3
NS3300	105	54	-43	66	25	5	32	2																									66	66	66	66	66	66	66	66
NS3400	104	54	-43	65	32	3	37	4																																65	65	65	65	65	65
Satellite Concourse
TTM Stage 3
SC1010	105	34	-39	70	19	1	19	2																			70
SC1020	113	40	-40	76	19	1	21	2																			76	76	76
SC1120	114	30	-38	80	21	4	21	6																					80
SC1140	113	30	-38	78	22	1	24	2																						78	78	78
SC1160	115	23	-35	83	24	3	29	2																								83	83	83	83	83	83
SC1180	113	30	-38	78	26	1	29	2																										78	78	78	78
SC1200	104	30	-38	70	29	3	32	4																													70	70	70	70
SC1360	105	34	-39	70	32	5	37	4																																70	70	70	70	70	70

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N5"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Plant Building																																																																											
PB Stage 1																																																																											
PB1050	109	101	-48	64	2	1	2	5																																																																			
PB1055	102	107	-49	56	2	1	2	5																																																																		
PB1060	89	112	-49	43	2	6	4	5																																																																		
PB1080	113	108	-49	67	4	6	6	5																																																																		
PB Stage 2																																																																											
PB1220	111	117	-49	65	6	6	10	6																																																																	
PB1270	111	119	-49	65	11	1	12	4																																																																	
PB1280	105	116	-49	58	11	1	12	4																																																																	
PB Stage 3																																																																											
PB1320	111	118	-49	65	12	5	15	1																																																																	
PB1350	105	133	-50	57	13	4	15	1																																																																	
PB1370	113	117	-49	67	15	3	17	5																																																																	
PB1380	111	117	-49	65	17	6	22	5																																																																	
PB1390	103	116	-49	57	22	6	23	4																																																																	
PB Stage 4																																																																											
PB1420	105	132	-50	58	23	5	24	1																																																																	
PB1450	113	132	-50	66	24	2	27	3																																																																	
PB1460	113	125	-50	66	24	2	26	1																																																																	
PB1480	111	125	-50	64	26	2	30	2																																																																	
PB Stage 5																																																																											
PB1540	105	135	-51	58	30	3	31	6																																																																	
PB1550	113	127	-50	66	32	1	35	6																																																																	
PB1560	111	127	-50	64	36	1	39	6																																																																	
PB1570	111	125	-50	64	40	1	53	2																																																																	
PB1580	81	125	-50	34	53	3	57	2																																																																	
PB1590	105	125	-50	58	57	3	67	2																																																																	
PB Stage 6																																																																											
PB1600	105	125	-50	58	67	3	72	2	58	58	58	58																																																											
Building Services																																																																											
PB2600	103	125	-50	56	72	3	75	4				56	56	56	56																																																								
Entrance A1																																																																											
Construction																																																																											
PB1700	105	126	-50	58	72	3	75	4				58	58	58	58																																																								
PB1800	111	126	-50	64	75	5	87	4								64	64	64	64	64	64	64	64	64	64	64	64																																											
PB1810	103	125	-50	56	87	5	94	2																			56	56	56	56	56	56	56	56																																								
PB1850	105	119	-49	59	112	5	117	4																																												59	59	59	59	59	59																		
PB1900	104	119	-49	58	121	1	124	2																																																						58	58	58	58											
E&M Systemwide Lifts & Escalators																																																																											
PB1830	103	125	-50	56	94	3	109	2																											56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56																										
PB1880	103	125	-50	56	94	3	109	2																											56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56																										
TST Connection Chamber																																																																											
TTM Stage 1																																																																											
NS1140	113	54	-43	73	1	2	2	5																																																																	
NS1200	109	54	-43	69	4	4	4	5																																																																		
NS1220	113	54	-43	73	4	6	8	1																																																																	
NS1240	113	54	-43	74	8	2	13	1																																																																	
TTM Stage 2																																																																											
NS1270	89	54	-43	49	14	1	17	2																																																																	
NS1280	103	54	-43	64	17	3	18	6																																																																	
NS1290	106	54	-43	66	19	1	25	4																																																																	
TTM Stage 3																																																																											
NS3300	105	54	-43	66	25	5	32	2																																																																	
NS3400	104	54	-43	65	32	3	37	4																																																																	
Satellite Concourse																																																																											
TTM Stage 3																																																																											
SC1010	105	34	-39	70	19	1	19	2																																																																	
SC1020	113	40	-40	76	19	1	21	2																																																																	
SC1120	114	30	-38	80	21	4	21	6																																																																	
SC1140	113	30	-38	78	22	1	24	2																																																																	
SC1160	115	23	-35	83	24	3	29	2																																																																	
SC1180	113	30	-38	78	26	1	29	2																																																																	
SC1200	104	30	-38	70	29	3	32	4																																																																	
SC1360	105	34	-39	70	32	5	37	4																																																																	

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N5"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	43	-41	75	32	5	36	1
SC2010	114	52	-42	75	36	1	37	4
SC2020	113	52	-42	74	37	4	38	5
SC2030	115	67	-45	74	38	5	40	3
SC2035	113	74	-45	71	38	5	43	5
SC2040	113	52	-42	74	40	3	42	2
SC2050	103	28	-37	69	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	43	-41	75	46	2	47	4
SC2125	114	24	-36	82	47	4	49	1
SC2130	113	24	-36	80	49	1	50	2
SC2133	113	60	-44	72	50	2	53	4
SC2135	115	34	-39	80	50	2	51	6
SC2140	113	34	-39	77	51	6	53	5
SC2145	104	34	-39	69	53	5	57	2
TTM Stage 8								
SC2180	114	24	-36	82	57	2	57	6
SC2200	113	24	-36	80	58	1	60	2
SC2220	115	40	-40	78	60	3	67	2
SC2240	113	40	-40	76	67	2	68	6
SC2260	104	24	-36	72	68	6	72	2
SC2280	112	24	-36	79	73	3	75	6
SC2300	99	24	-36	66	75	6	78	6
SC2320	112	24	-36	79	78	6	81	3
SC2360	105	24	-36	73	109	1	118	6
SC2370	105	24	-36	73	119	1	122	2
SC2380	105	24	-36	73	122	3	126	2
E&M Systemwide								
SC3001	103	40	-40	66	122	3	132	2
Subway TST								
Construction								
ST1000	112	56	-43	72	85	4	101	3
ST1120	110	56	-43	70	101	4	105	5
ST1130	100	56	-43	60	105	6	114	2
E&M Systemwide								
ST3001	103	56	-43	63	119	3	129	2
Subway MSC								
Construction								
SM1100	112	60	-44	71	85	4	96	1
SM1120	112	60	-44	72	96	2	100	3
SM1140	112	60	-44	72	100	4	104	5
SM1150	112	60	-44	72	100	4	104	5
SM1200	100	60	-44	60	104	6	113	2
E&M SySMemwide								
SM3001	103	60	-44	62	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	157	-52	66	1	2	1	4
QM1150	102	157	-52	53	1	5	2	3
QM1160	113	157	-52	64	1	5	2	3
QM1180	111	157	-52	62	2	4	5	5
QM1200	113	157	-52	64	5	6	6	4
QM1210	103	157	-52	55	6	5	8	2
QM1220	104	157	-52	55	126	3	130	3
QM1260	111	157	-52	62	130	4	135	3

Week Number

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
TTM Stage 4																																																																								
SC2000																																75	75	75	75	75																																		
SC2010																																				75	75																																		
SC2020																																					74	74																																	
SC2030																																						74	74	74																															
SC2035																																						71	71	71	71	71	71																											
SC2040																																								74	74	74																													
SC2050																																										69	69	69	69																									
TTM Stage 5 to 7																																														75	75																									
SC2100																																															82	82	82																					
SC2125																																																	80	80																			
SC2130																																																		72	72	72	72															
SC2133																																																		80	80																
SC2135																																																			77	77	77													
SC2140																																																				69	69	69	69	69									
SC2145																																																																	
TTM Stage 8																																																								82									
SC2180																																																									80	80	80						
SC2200																																																											78	78	78	78	78	78	78	78	
SC2220																																																																76	76
SC2240																																																																	72
SC2260																																																																	
SC2280																																																																	
SC2300																																																																	
SC2320																																																																	
SC2360																																																																	
SC2370																																																																	
SC2380																																																																	
E&M Systemwide																																																																	
SC3001																																																																	
Subway TST																																																																	
Construction																																																																	
ST1000																																																																	
ST1120																																																																	
ST1130																																																																	
E&M Systemwide																																																																	
ST3001																																																																	
Subway MSC																																																																	
Construction																																																																	
SM1100																																																																	
SM1120																																																																	
SM1140																																																																	
SM1150																																																																	
SM1200																																																																	
E&M SySMemwide																																																																	
SM3001																																																																	
Emergency Stair at MSC																																																																	
Construction																																																																	
QM1140	66																																																																
QM1150	53	53																																																															
QM1160		64																																																															
QM1180		62	62	62	62																																																												
QM1200					64	64																																																										
QM1210						55	55	55																																																							
QM1220																																																																	
QM1260																																																																	
Worst Construction Noise Level during the Specific Week	74	75	62	76	75	75	74	77	74	74	74	75	74	65	69	67	70	67	77	77	82	79	79	85	84	85	85	85	85	72	71	78	77	77	77	79	78	77	76	78	74	77	74	71	71	76	83	82	84	83	82	79	79	69	69	69	82	80	80	83	79	79	79	79	79	79	80	77
Week Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N5"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	43	-41	75	32	5	36	1
SC2010	114	52	-42	75	36	1	37	4
SC2020	113	52	-42	74	37	4	38	5
SC2030	115	67	-45	74	38	5	40	3
SC2035	113	74	-45	71	38	5	43	5
SC2040	113	52	-42	74	40	3	42	2
SC2050	103	28	-37	69	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	43	-41	75	46	2	47	4
SC2125	114	24	-36	82	47	4	49	1
SC2130	113	24	-36	80	49	1	50	2
SC2133	113	60	-44	72	50	2	53	4
SC2135	115	34	-39	80	50	2	51	6
SC2140	113	34	-39	77	51	6	53	5
SC2145	104	34	-39	69	53	5	57	2
TTM Stage 8								
SC2180	114	24	-36	82	57	2	57	6
SC2200	113	24	-36	80	58	1	60	2
SC2220	115	40	-40	78	60	3	67	2
SC2240	113	40	-40	76	67	2	68	6
SC2260	104	24	-36	72	68	6	72	2
SC2280	112	24	-36	79	73	3	75	6
SC2300	99	24	-36	66	75	6	78	6
SC2320	112	24	-36	79	78	6	81	3
SC2360	105	24	-36	73	109	1	118	6
SC2370	105	24	-36	73	119	1	122	2
SC2380	105	24	-36	73	122	3	126	2
E&M Systemwide								
SC3001	103	40	-40	66	122	3	132	2
Subway TST								
Construction								
ST1000	112	56	-43	72	85	4	101	3
ST1120	110	56	-43	70	101	4	105	5
ST1130	100	56	-43	60	105	6	114	2
E&M Systemwide								
ST3001	103	56	-43	63	119	3	129	2
Subway MSC								
Construction								
SM1100	112	60	-44	71	85	4	96	1
SM1120	112	60	-44	72	96	2	100	3
SM1140	112	60	-44	72	100	4	104	5
SM1150	112	60	-44	72	100	4	104	5
SM1200	100	60	-44	60	104	6	113	2
E&M SySMemwide								
SM3001	103	60	-44	62	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	157	-52	66	1	2	1	4
QM1150	102	157	-52	53	1	5	2	3
QM1160	113	157	-52	64	1	5	2	3
QM1180	111	157	-52	62	2	4	5	5
QM1200	113	157	-52	64	5	6	6	4
QM1210	103	157	-52	55	6	5	8	2
QM1220	104	157	-52	55	126	3	130	3
QM1260	111	157	-52	62	130	4	135	3

Week Number

Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
SC2260	72	72	72	72																																																																
SC2280					79	79	79																																																												
SC2300							66	66	66	66																																																								
SC2320										79	79	79	79																																																					
SC2360																																									73	73	73	73	73	73	73	73	73	73																		
SC2370																																																			73	73	73	73													
SC2380																																																						73	73	73	73	73									
SC3001																																																						66	66	66	66	66	66	66	66	66	66	66		
ST1000																	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72																																				
ST1120																																	70	70	70	70	70																														
ST1130																																					60	60	60	60	60	60	60	60	60	60																						
ST3001																																																			63	63	63	63	63	63	63	63	63	63	63					
SM1100																	71	71	71	71	71	71	71	71	71	71	71	71																																								
SM1120																												72	72	72	72	72																																				
SM1140																																72	72	72	72	72																														
SM1150																																72	72	72	72	72																														
SM1200																																					60	60	60	60	60	60	60	60	60	60																						
SM3001																																																62	62	62	62	62	62	62	62	62	62	62									
QM1140																																																																			
QM1150																																																																			
QM1160																																																																			
QM1180																																																																			
QM1200																																																																			
QM1210																																																																			
QM1220																																																												55	55	55	55	55					
QM1260																																																																62	62	62	62	62	62	
Worst Construction Noise Level during the Specific Week	72	72	72	72	79	79	79	68	68	79	79	79	79	64	64	64	75	75	75	75	75	75	75	75	75	75	75	76	75	75	75	78	78	76	76	76	71	65	65	65	73	73	73	73	73	73	73	73	73	73	73	74	77	74	74	74	74	69	68	68	68	67	67	62	62	62
Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N6"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
Plant Building								
PB Stage 1								
PB1050	109	-	-	-	2	1	2	5
PB1055	102	-	-	-	2	1	2	5
PB1060	89	-	-	-	2	6	4	5
PB1080	113	-	-	-	4	6	6	5
PB Stage 2								
PB1220	111	-	-	-	6	6	10	6
PB1270	111	-	-	-	11	1	12	4
PB1280	105	-	-	-	11	1	12	4
PB Stage 3								
PB1320	111	-	-	-	12	5	15	1
PB1350	105	-	-	-	13	4	15	1
PB1370	113	-	-	-	15	3	17	5
PB1380	111	-	-	-	17	6	22	5
PB1390	103	-	-	-	22	6	23	4
PB Stage 4								
PB1420	105	-	-	-	23	5	24	1
PB1450	113	-	-	-	24	2	27	3
PB1460	113	-	-	-	24	2	26	1
PB1480	111	-	-	-	26	2	30	2
PB Stage 5								
PB1540	105	-	-	-	30	3	31	6
PB1550	113	-	-	-	32	1	35	6
PB1560	111	-	-	-	36	1	39	6
PB1570	111	-	-	-	40	1	53	2
PB1580	81	-	-	-	53	3	57	2
PB1590	105	-	-	-	57	3	67	2
PB Stage 6								
PB1600	105	-	-	-	67	3	72	2
Building Services								
PB2600	103	-	-	-	72	3	75	4
Entrance A1								
Construction								
PB1700	105	-	-	-	72	3	75	4
PB1800	111	-	-	-	75	5	87	4
PB1810	103	-	-	-	87	5	94	2
PB1850	105	-	-	-	112	5	117	4
PB1900	104	-	-	-	121	1	124	2
E&M Systemwide Lifts & Escalators								
PB1830	103	-	-	-	94	3	109	2
PB1880	103	-	-	-	94	3	109	2
TST Connection Chamber								
TTM Stage 1								
NS1140	113	-	-	-	1	2	2	5
NS1200	109	-	-	-	4	4	4	5
NS1220	113	-	-	-	4	6	8	1
NS1240	113	-	-	-	8	2	13	1
TTM Stage 2								
NS1270	89	-	-	-	14	1	17	2
NS1280	103	-	-	-	17	3	18	6
NS1290	106	-	-	-	19	1	25	4
TTM Stage 3								
NS3300	105	-	-	-	25	5	32	2
NS3400	104	-	-	-	32	3	37	4
Satellite Concourse								
TTM Stage 3								
SC1010	105	288	-57	51	19	1	19	2
SC1020	113	276	-57	59	19	1	21	2
SC1120	114	281	-57	60	21	4	21	6
SC1140	113	281	-57	59	22	1	24	2
SC1160	115	307	-58	61	24	3	29	2
SC1180	113	281	-57	59	26	1	29	2
SC1200	104	281	-57	50	29	3	32	4
SC1360	105	288	-57	51	32	5	37	4

Week Number

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
PB1050	-																																																																				
PB1055	-																																																																			
PB1060	-	-	-																																																																
PB1080				-	-	-																																																													
PB1220						-	-	-	-	-																																																									
PB1270											-	-																																																						
PB1280											-	-																																																						
PB1320												-	-	-	-																																																				
PB1350													-	-	-																																																			
PB1370															-	-	-																																																	
PB1380																	-	-	-	-	-	-																																											
PB1390																						-	-																																											
PB1420																							-	-																																										
PB1450																								-	-	-	-																																							
PB1460																								-	-	-																																								
PB1480																										-	-	-	-	-																																				
PB1540																														-	-																																				
PB1550																																-	-	-	-																															
PB1560																																				-	-	-	-																												
PB1570																																								-	-	-	-	-	-	-	-	-	-	-	-	-	-													
PB1580																																																					-	-	-	-	-											
PB1590																																																									-	-	-	-	-	-	-	-	-	-	-	
PB1600																																																																			-	-
PB1700																																																																			
PB1800																																																																			
PB1810																																																																			
PB1850																																																																			
PB1900																																																																			
PB1830																																																																			
PB1880																																																																			
NS1140	-	-																																																																	
NS1200				-																																																															
NS1220				-	-	-	-	-																																																										
NS1240								-	-	-	-	-	-																																																					
NS1270														-	-	-	-																																																		
NS1280																	-	-																																															
NS1290																			-	-	-	-	-	-	-																																								
NS3300																									-	-	-	-	-	-	-	-																																			
NS3400																																-	-	-	-	-	-																													
SC1010																		51																																															
SC1020																		59	59	59																																													
SC1120																					60																																												
SC1140																						59	59	59																																									
SC1160																								61	61	61	61	61	61																																				
SC1180																										59	59	59	59																																				
SC1200																													50	50	50	50																															
SC1360																																51	51	51	51	51	51																										

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N6"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
Plant Building								
PB Stage 1								
PB1050	109	-	-	-	2	1	2	5
PB1055	102	-	-	-	2	1	2	5
PB1060	89	-	-	-	2	6	4	5
PB1080	113	-	-	-	4	6	6	5
PB Stage 2								
PB1220	111	-	-	-	6	6	10	6
PB1270	111	-	-	-	11	1	12	4
PB1280	105	-	-	-	11	1	12	4
PB Stage 3								
PB1320	111	-	-	-	12	5	15	1
PB1350	105	-	-	-	13	4	15	1
PB1370	113	-	-	-	15	3	17	5
PB1380	111	-	-	-	17	6	22	5
PB1390	103	-	-	-	22	6	23	4
PB Stage 4								
PB1420	105	-	-	-	23	5	24	1
PB1450	113	-	-	-	24	2	27	3
PB1460	113	-	-	-	24	2	26	1
PB1480	111	-	-	-	26	2	30	2
PB Stage 5								
PB1540	105	-	-	-	30	3	31	6
PB1550	113	-	-	-	32	1	35	6
PB1560	111	-	-	-	36	1	39	6
PB1570	111	-	-	-	40	1	53	2
PB1580	81	-	-	-	53	3	57	2
PB1590	105	-	-	-	57	3	67	2
PB Stage 6								
PB1600	105	-	-	-	67	3	72	2
Building Services								
PB2600	103	-	-	-	72	3	75	4
Entrance A1								
Construction								
PB1700	105	-	-	-	72	3	75	4
PB1800	111	-	-	-	75	5	87	4
PB1810	103	-	-	-	87	5	94	2
PB1850	105	-	-	-	112	5	117	4
PB1900	104	-	-	-	121	1	124	2
E&M Systemwide Lifts & Escalators								
PB1830	103	-	-	-	94	3	109	2
PB1880	103	-	-	-	94	3	109	2
TST Connection Chamber								
TTM Stage 1								
NS1140	113	-	-	-	1	2	2	5
NS1200	109	-	-	-	4	4	4	5
NS1220	113	-	-	-	4	6	8	1
NS1240	113	-	-	-	8	2	13	1
TTM Stage 2								
NS1270	89	-	-	-	14	1	17	2
NS1280	103	-	-	-	17	3	18	6
NS1290	106	-	-	-	19	1	25	4
TTM Stage 3								
NS3300	105	-	-	-	25	5	32	2
NS3400	104	-	-	-	32	3	37	4
Satellite Concourse								
TTM Stage 3								
SC1010	105	288	-57	51	19	1	19	2
SC1020	113	276	-57	59	19	1	21	2
SC1120	114	281	-57	60	21	4	21	6
SC1140	113	281	-57	59	22	1	24	2
SC1160	115	307	-58	61	24	3	29	2
SC1180	113	281	-57	59	26	1	29	2
SC1200	104	281	-57	50	29	3	32	4
SC1360	105	288	-57	51	32	5	37	4

Week Number

Task	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
PB1600	-	-	-	-																																																															
PB2600				-	-	-	-																																																											
PB1700				-	-	-	-																																																											
PB1800								-	-	-	-	-	-	-	-	-	-	-	-																																																
PB1810																			-	-	-	-	-	-	-	-																																								
PB1850																																												-	-	-	-	-	-																	
PB1900																																																					-	-	-	-										
PB1830																									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																												
PB1880																									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																												

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N6"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	270	-57	59	32	5	36	1
SC2010	114	266	-56	61	36	1	37	4
SC2020	113	266	-56	59	37	4	38	5
SC2030	115	261	-56	62	38	5	40	3
SC2035	113	224	-55	61	38	5	43	5
SC2040	113	266	-56	59	40	3	42	2
SC2050	103	290	-57	49	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	270	-57	59	46	2	47	4
SC2125	114	259	-56	61	47	4	49	1
SC2130	113	259	-56	60	49	1	50	2
SC2133	113	263	-56	60	50	2	53	4
SC2135	115	261	-56	62	50	2	51	6
SC2140	113	261	-56	60	51	6	53	5
SC2145	104	261	-56	51	53	5	57	2
TTM Stage 8								
SC2180	114	242	-56	62	57	2	57	6
SC2200	113	242	-56	60	58	1	60	2
SC2220	115	283	-57	61	60	3	67	2
SC2240	113	283	-57	59	67	2	68	6
SC2260	104	242	-56	52	68	6	72	2
SC2280	112	242	-56	59	73	3	75	6
SC2300	99	242	-56	46	75	6	78	6
SC2320	112	242	-56	59	78	6	81	3
SC2360	105	242	-56	53	109	1	118	6
SC2370	105	242	-56	53	119	1	122	2
SC2380	105	242	-56	53	122	3	126	2
E&M Systemwide								
SC3001	103	283	-57	49	122	3	132	2
Subway TST								
Construction								
ST1000	112	-	-	-	85	4	101	3
ST1120	110	-	-	-	101	4	105	5
ST1130	100	-	-	-	105	6	114	2
E&M Systemwide								
ST3001	103	-	-	-	119	3	129	2
Subway MSC								
Construction								
SM1100	112	262	-56	58	85	4	96	1
SM1120	112	262	-56	59	96	2	100	3
SM1140	112	262	-56	59	100	4	104	5
SM1150	112	262	-56	59	100	4	104	5
SM1200	100	262	-56	47	104	6	113	2
E&M SySMemwide								
SM3001	103	262	-56	49	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	160	-52	65	1	2	1	4
QM1150	102	160	-52	53	1	5	2	3
QM1160	113	160	-52	64	1	5	2	3
QM1180	111	160	-52	62	2	4	5	5
QM1200	113	160	-52	64	5	6	6	4
QM1210	103	160	-52	54	6	5	8	2
QM1220	104	160	-52	55	126	3	130	3
QM1260	111	160	-52	62	130	4	135	3

Week Number

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
TTM Stage 4																																																																								
SC2000																																59	59	59	59	59																																		
SC2010																																				61	61																																			
SC2020																																					59	59																																		
SC2030																																						62	62	62																																
SC2035																																						61	61	61	61	61	61																													
SC2040																																								59	59	59																														
SC2050																																										49	49	49	49																									
TTM Stage 5 to 7																																														59	59																								
SC2100																																															61	61	61																				
SC2125																																																	60	60																		
SC2130																																																		60	60	60	60														
SC2133																																																		62	62															
SC2135																																																			60	60	60												
SC2140																																																					51	51	51	51	51								
SC2145																																																																	
TTM Stage 8																																																								62										
SC2180																																																									60	60	60							
SC2200																																																											61	61	61	61	61	61	61	61	
SC2220																																																																	59	59
SC2240																																																																		52
SC2260																																																																		
SC2280																																																																		
SC2300																																																																		
SC2320																																																																		
SC2360																																																																		
SC2370																																																																		
SC2380																																																																		
E&M Systemwide																																																																		
SC3001																																																																		
Subway TST																																																																		
Construction																																																																		
ST1000																																																																		
ST1120																																																																		
ST1130																																																																		
E&M Systemwide																																																																		
ST3001																																																																		
Subway MSC																																																																		
Construction																																																																		
SM1100																																																																		
SM1120																																																																		
SM1140																																																																		
SM1150																																																																		
SM1200																																																																		
E&M SySMemwide																																																																		
SM3001																																																																		
Emergency Stair at MSC																																																																		
Construction																																																																		
QM1140	65																																																																	
QM1150	53	53																																																																
QM1160		64																																																																
QM1180		62	62	62	62																																																													
QM1200					64	64																																																											
QM1210						54	54	54																																																									
QM1220																																																																		
QM1260																																																																		
Worst Construction Noise Level during the Specific Week	66	66	62	62	66	64	54	54	-	-	-	-	-	-	-	-	-	-	60	59	63	59	59	63	61	63	63	63	63	50	50	60	60	60	60	63	64	64	65	66	59	63	61	49	49	59	63	61	63	65	65	63	63	51	51	51	62	60	60	64	61	61	61	61	61	61	63	60
Week Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N6"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	270	-57	59	32	5	36	1
SC2010	114	266	-56	61	36	1	37	4
SC2020	113	266	-56	59	37	4	38	5
SC2030	115	261	-56	62	38	5	40	3
SC2035	113	224	-55	61	38	5	43	5
SC2040	113	266	-56	59	40	3	42	2
SC2050	103	290	-57	49	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	270	-57	59	46	2	47	4
SC2125	114	259	-56	61	47	4	49	1
SC2130	113	259	-56	60	49	1	50	2
SC2133	113	263	-56	60	50	2	53	4
SC2135	115	261	-56	62	50	2	51	6
SC2140	113	261	-56	60	51	6	53	5
SC2145	104	261	-56	51	53	5	57	2
TTM Stage 8								
SC2180	114	242	-56	62	57	2	57	6
SC2200	113	242	-56	60	58	1	60	2
SC2220	115	283	-57	61	60	3	67	2
SC2240	113	283	-57	59	67	2	68	6
SC2260	104	242	-56	52	68	6	72	2
SC2280	112	242	-56	59	73	3	75	6
SC2300	99	242	-56	46	75	6	78	6
SC2320	112	242	-56	59	78	6	81	3
SC2360	105	242	-56	53	109	1	118	6
SC2370	105	242	-56	53	119	1	122	2
SC2380	105	242	-56	53	122	3	126	2
E&M Systemwide								
SC3001	103	283	-57	49	122	3	132	2
Subway TST								
Construction								
ST1000	112	-	-	-	85	4	101	3
ST1120	110	-	-	-	101	4	105	5
ST1130	100	-	-	-	105	6	114	2
E&M Systemwide								
ST3001	103	-	-	-	119	3	129	2
Subway MSC								
Construction								
SM1100	112	262	-56	58	85	4	96	1
SM1120	112	262	-56	59	96	2	100	3
SM1140	112	262	-56	59	100	4	104	5
SM1150	112	262	-56	59	100	4	104	5
SM1200	100	262	-56	47	104	6	113	2
E&M SySMemwide								
SM3001	103	262	-56	49	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	160	-52	65	1	2	1	4
QM1150	102	160	-52	53	1	5	2	3
QM1160	113	160	-52	64	1	5	2	3
QM1180	111	160	-52	62	2	4	5	5
QM1200	113	160	-52	64	5	6	6	4
QM1210	103	160	-52	54	6	5	8	2
QM1220	104	160	-52	55	126	3	130	3
QM1260	111	160	-52	62	130	4	135	3

Week Number

Task	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
TTM Stage 4																																																																					
SC2000																																																																					
SC2010																																																																					
SC2020																																																																					
SC2030																																																																					
SC2035																																																																					
SC2040																																																																					
SC2050																																																																					
TTM Stage 5 to 7																																																																					
SC2100																																																																					
SC2125																																																																					
SC2130																																																																					
SC2133																																																																					
SC2135																																																																					
SC2140																																																																					
SC2145																																																																					
TTM Stage 8																																																																					
SC2180																																																																					
SC2200																																																																					
SC2220																																																																					
SC2240																																																																					
SC2260	52	52	52	52																																																																	
SC2280					59	59	59																																																													
SC2300							46	46	46	46																																																									
SC2320										59	59	59	59																																																						
SC2360																																								53	53	53	53	53	53	53	53	53	53																			
SC2370																																																			53	53	53	53														
SC2380																																																						53	53	53	53	53										
E&M Systemwide																																																																					
SC3001																																																						49	49	49	49	49	49	49	49	49	49	49			
Subway TST																																																																					
Construction																																																																					
ST1000																	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																				
ST1120																																	-	-	-	-	-																																
ST1130																																					-	-	-	-	-	-	-	-	-	-																								
E&M Systemwide																																																																					
ST3001																																																			-	-	-	-	-	-	-	-	-	-	-	-							
Subway MSC																																																																					
Construction																																																																					
SM1100																	58	58	58	58	58	58	58	58	58	58	58	58																																									
SM1120																												59	59	59	59	59																																						
SM1140																																59	59	59	59	59																																
SM1150																																59	59	59	59	59																																
SM1200																																					47	47	47	47	47	47	47	47	47																								
E&M SySMemwide																																																																					
SM3001																																																	49	49	49	49	49	49	49	49	49	49	49								
Emergency Stair at MSC																																																																					
Construction																																																																					
QM1140																																																																					
QM1150																																																																					
QM1160																																																																					
QM1180																																																																					
QM1200																																																																					
QM1210																																																																					
QM1220																																																													55	55	55	55	55				
QM1260																																																																	62	62	62	62	62	62
Worst Construction Noise Level during the Specific Week	52	52	52	52	59	59	59	46	46	59	59	59	59	-	-	-	58	58	58	58	58	58	58	58	58	58	58	62	59	59	59	64	62	62	62	62	47	47	47	47	54	54	54	54	54	53	53	53	54	54	54	54	57	55	55	55	58	57	56	56	63	62	62	62	62	62
Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N7a"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
Plant Building								
PB Stage 1								
PB1050	109	34	-39	73	2	1	2	5
PB1055	102	-	-	-	2	1	2	5
PB1060	89	44	-41	51	2	6	4	5
PB1080	113	41	-40	76	4	6	6	5
PB Stage 2								
PB1220	111	50	-42	72	6	6	10	6
PB1270	111	-	-	-	11	1	12	4
PB1280	105	49	-42	66	11	1	12	4
PB Stage 3								
PB1320	111	-	-	-	12	5	15	1
PB1350	105	-	-	-	13	4	15	1
PB1370	113	52	-42	74	15	3	17	5
PB1380	111	52	-42	72	17	6	22	5
PB1390	103	51	-42	64	22	6	23	4
PB Stage 4								
PB1420	105	-	-	-	23	5	24	1
PB1450	113	-	-	-	24	2	27	3
PB1460	113	58	-43	73	24	2	26	1
PB1480	111	58	-43	71	26	2	30	2
PB Stage 5								
PB1540	105	67	-45	64	30	3	31	6
PB1550	113	-	-	-	32	1	35	6
PB1560	111	-	-	-	36	1	39	6
PB1570	111	59	-43	71	40	1	53	2
PB1580	81	59	-43	41	53	3	57	2
PB1590	105	59	-43	65	57	3	67	2
PB Stage 6								
PB1600	105	59	-43	65	67	3	72	2
Building Services								
PB2600	103	59	-43	62	72	3	75	4
Entrance A1								
Construction								
PB1700	105	58	-43	65	72	3	75	4
PB1800	111	58	-43	71	75	5	87	4
PB1810	103	58	-43	63	87	5	94	2
PB1850	105	49	-42	67	112	5	117	4
PB1900	104	49	-42	65	121	1	124	2
E&M Systemwide Lifts & Escalators								
PB1830	103	57	-43	63	94	3	109	2
PB1880	103	57	-43	63	94	3	109	2
TST Connection Chamber								
TTM Stage 1								
NS1140	113	27	-37	79	1	2	2	5
NS1200	109	27	-37	75	4	4	4	5
NS1220	113	27	-37	79	4	6	8	1
NS1240	113	27	-37	80	8	2	13	1
TTM Stage 2								
NS1270	89	27	-37	55	14	1	17	2
NS1280	103	27	-37	70	17	3	18	6
NS1290	106	27	-37	72	19	1	25	4
TTM Stage 3								
NS3300	105	27	-37	72	25	5	32	2
NS3400	104	27	-37	71	32	3	37	4
Satellite Concourse								
TTM Stage 3								
SC1010	105	104	-48	60	19	1	19	2
SC1020	113	105	-48	67	19	1	21	2
SC1120	114	102	-48	69	21	4	21	6
SC1140	113	102	-48	68	22	1	24	2
SC1160	115	91	-47	71	24	3	29	2
SC1180	113	102	-48	68	26	1	29	2
SC1200	104	102	-48	59	29	3	32	4
SC1360	105	104	-48	60	32	5	37	4

Week Number (weeks 1–34)

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
PB1050		73																																
PB1055		-																																
PB1060		51	51	51																														
PB1080				76	76	76																												
PB1220						72	72	72	72	72																								
PB1270											-	-																						
PB1280											66	66																						
PB1320												-	-	-	-																			
PB1350													-	-	-																			
PB1370															74	74	74																	
PB1380																	72	72	72	72	72	72												
PB1390																						64	64											
PB1420																							-	-										
PB1450																								-	-	-	-							
PB1460																								73	73	73								
PB1480																										71	71	71	71	71				
PB1540																														64	64			
PB1550																																-	-	-
NS1140	79	79																																
NS1200				75																														
NS1220				79	79	79	79	79																										
NS1240								80	80	80	80	80	80																					
NS1270														55	55	55	55																	
NS1280																	70	70																
NS1290																			72	72	72	72	72	72	72									
NS3300																									72	72	72	72	72	72	72	72		
NS3400																																71	71	71
SC1010																			60															
SC1020																			67	67	67													
SC1120																					69													
SC1140																						68	68	68										
SC1160																								71	71	71	71	71	71					
SC1180																										68	68	68	68					
SC1200																													59	59	59	59		
SC1360																																60	60	60

Week Number (weeks 35–68)

Task	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
PB1550	-																																	
PB1560		-	-	-	-																													
PB1570						71	71	71	71	71	71	71	71	71	71	71	71	71	71															
PB1580																			41	41	41	41	41											
PB1590																							65	65	65	65	65	65	65	65	65	65	65	
PB1600																																	65	65
NS3400	71	71	71																															
SC1360	60	60	60																															

Note: "-" Works area not within angle of view of this NSR

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N7a"

| Task | Sound Power Level dB(A) | Slant Distance m | Distance Correction dB(A) | Corrected Noise Level dB(A) | Construction Schedule Start Wk | Start Day | End Wk | End Day | Week Number 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 |
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Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N7a"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	107	-49	67	32	5	36	1
SC2010	114	119	-49	68	36	1	37	4
SC2020	113	119	-49	66	37	4	38	5
SC2030	115	134	-51	68	38	5	40	3
SC2035	113	138	-51	65	38	5	43	5
SC2040	113	119	-49	66	40	3	42	2
SC2050	103	97	-48	59	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	107	-49	67	46	2	47	4
SC2125	114	94	-47	70	47	4	49	1
SC2130	113	94	-47	68	49	1	50	2
SC2133	113	124	-50	66	50	2	53	4
SC2135	115	99	-48	71	50	2	51	6
SC2140	113	99	-48	68	51	6	53	5
SC2145	104	99	-48	59	53	5	57	2
TTM Stage 8								
SC2180	114	94	-47	70	57	2	57	6
SC2200	113	94	-47	68	58	1	60	2
SC2220	115	106	-49	70	60	3	67	2
SC2240	113	106	-49	67	67	2	68	6
SC2260	104	94	-47	60	68	6	72	2
SC2280	112	94	-47	67	73	3	75	6
SC2300	99	94	-47	54	75	6	78	6
SC2320	112	94	-47	67	78	6	81	3
SC2360	105	94	-47	61	109	1	118	6
SC2370	105	94	-47	61	119	1	122	2
SC2380	105	94	-47	61	122	3	126	2
E&M Systemwide								
SC3001	103	106	-49	57	122	3	132	2
Subway TST								
Construction								
ST1000	112	27	-37	78	85	4	101	3
ST1120	110	27	-37	77	101	4	105	5
ST1130	100	27	-37	67	105	6	114	2
E&M Systemwide								
ST3001	103	27	-37	69	119	3	129	2
Subway MSC								
Construction								
SM1100	112	127	-50	65	85	4	96	1
SM1120	112	127	-50	65	96	2	100	3
SM1140	112	127	-50	65	100	4	104	5
SM1150	112	127	-50	65	100	4	104	5
SM1200	100	127	-50	53	104	6	113	2
E&M SySMemwide								
SM3001	103	127	-50	56	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	222	-55	63	1	2	1	4
QM1150	102	222	-55	50	1	5	2	3
QM1160	113	222	-55	61	1	5	2	3
QM1180	111	222	-55	59	2	4	5	5
QM1200	113	222	-55	61	5	6	6	4
QM1210	103	222	-55	52	6	5	8	2
QM1220	104	222	-55	52	126	3	130	3
QM1260	111	222	-55	59	130	4	135	3

Week Number

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
TTM Stage 4																																																																								
SC2000																																67	67	67	67	67																																		
SC2010																																				68	68																																		
SC2020																																					66	66																																	
SC2030																																						68	68	68																																
SC2035																																						65	65	65	65	65	65																												
SC2040																																								66	66	66																												
SC2050																																										59	59	59	59																									
TTM Stage 5 to 7																																														67	67																									
SC2100																																															70	70	70																					
SC2125																																																	68	68																				
SC2130																																																	66	66	66	66																
SC2133																																																	71	71																		
SC2135																																																		68	68	68																
SC2140																																																			59	59	59	59	59											
SC2145																																																																		
TTM Stage 8																																																								70											
SC2180																																																									68	68	68							
SC2200																																																											70	70	70	70	70	70	70	70	
SC2220																																																																	67	67
SC2240																																																																		60
SC2260																																																																		
SC2280																																																																		
SC2300																																																																		
SC2320																																																																		
SC2360																																																																		
SC2370																																																																		
SC2380																																																																		
E&M Systemwide																																																																		
SC3001																																																																		
Subway TST																																																																		
Construction																																																																		
ST1000																																																																		
ST1120																																																																		
ST1130																																																																		
E&M Systemwide																																																																		
ST3001																																																																		
Subway MSC																																																																		
Construction																																																																		
SM1100																																																																		
SM1120																																																																		
SM1140																																																																		
SM1150																																																																		
SM1200																																																																		
E&M SySMemwide																																																																		
SM3001																																																																		
Emergency Stair at MSC																																																																		
Construction																																																																		
QM1140	63																																																																	
QM1150	50	50																																																																
QM1160		61																																																																
QM1180		59	59	59	59																																																													
QM1200					61	61																																																											
QM1210						52	52	52																																																									
QM1220																																																																		
QM1260																																																																		
Worst Construction Noise Level during the Specific Week	79	80	60	82	81	81	80	83	81	81	80	80	80	55	74	74	77	74	76	76	77	76	74	77	78	78	77	77	77	75	73	75	73	73	73	74	74	70	70	74	72	73	72	71	71	72	74	73	75	75	75	74	74	59	59	59	71	70	70	73	71	71	71	71	71	71	73	70
Week Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N7a"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	107	-49	67	32	5	36	1
SC2010	114	119	-49	68	36	1	37	4
SC2020	113	119	-49	66	37	4	38	5
SC2030	115	134	-51	68	38	5	40	3
SC2035	113	138	-51	65	38	5	43	5
SC2040	113	119	-49	66	40	3	42	2
SC2050	103	97	-48	59	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	107	-49	67	46	2	47	4
SC2125	114	94	-47	70	47	4	49	1
SC2130	113	94	-47	68	49	1	50	2
SC2133	113	124	-50	66	50	2	53	4
SC2135	115	99	-48	71	50	2	51	6
SC2140	113	99	-48	68	51	6	53	5
SC2145	104	99	-48	59	53	5	57	2
TTM Stage 8								
SC2180	114	94	-47	70	57	2	57	6
SC2200	113	94	-47	68	58	1	60	2
SC2220	115	106	-49	70	60	3	67	2
SC2240	113	106	-49	67	67	2	68	6
SC2260	104	94	-47	60	68	6	72	2
SC2280	112	94	-47	67	73	3	75	6
SC2300	99	94	-47	54	75	6	78	6
SC2320	112	94	-47	67	78	6	81	3
SC2360	105	94	-47	61	109	1	118	6
SC2370	105	94	-47	61	119	1	122	2
SC2380	105	94	-47	61	122	3	126	2
E&M Systemwide								
SC3001	103	106	-49	57	122	3	132	2
Subway TST								
Construction								
ST1000	112	27	-37	78	85	4	101	3
ST1120	110	27	-37	77	101	4	105	5
ST1130	100	27	-37	67	105	6	114	2
E&M Systemwide								
ST3001	103	27	-37	69	119	3	129	2
Subway MSC								
Construction								
SM1100	112	127	-50	65	85	4	96	1
SM1120	112	127	-50	65	96	2	100	3
SM1140	112	127	-50	65	100	4	104	5
SM1150	112	127	-50	65	100	4	104	5
SM1200	100	127	-50	53	104	6	113	2
E&M SySMemwide								
SM3001	103	127	-50	56	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	222	-55	63	1	2	1	4
QM1150	102	222	-55	50	1	5	2	3
QM1160	113	222	-55	61	1	5	2	3
QM1180	111	222	-55	59	2	4	5	5
QM1200	113	222	-55	61	5	6	6	4
QM1210	103	222	-55	52	6	5	8	2
QM1220	104	222	-55	52	126	3	130	3
QM1260	111	222	-55	59	130	4	135	3

Week Number

Task	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
TTM Stage 4																																																																						
SC2000																																																																						
SC2010																																																																						
SC2020																																																																						
SC2030																																																																						
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SC2040																																																																						
SC2050																																																																						
TTM Stage 5 to 7																																																																						
SC2100																																																																						
SC2125																																																																						
SC2130																																																																						
SC2133																																																																						
SC2135																																																																						
SC2140																																																																						
SC2145																																																																						
TTM Stage 8																																																																						
SC2180																																																																						
SC2200																																																																						
SC2220																																																																						
SC2240																																																																						
SC2260	60	60	60	60																																																																		
SC2280					67	67	67																																																															
SC2300							54	54	54	54																																																											
SC2320										67	67	67	67																																																								
SC2360																																									61	61	61	61	61	61	61	61	61	61																					
SC2370																																																				61	61	61	61														
SC2380																																																						61	61	61	61	61											
E&M Systemwide																																																																						
SC3001																																																						57	57	57	57	57	57	57	57	57	57	57			
Subway TST																																																																						
Construction																																																																						
ST1000																	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78																																							
ST1120																																	77	77	77	77	77																																	
ST1130																																					67	67	67	67	67	67	67	67	67	67																									
E&M Systemwide																																																																						
ST3001																																																			69	69	69	69	69	69	69	69	69	69	69							
Subway MSC																																																																						
Construction																																																																						
SM1100																	65	65	65	65	65	65	65	65	65	65	65	65																																											
SM1120																												65	65	65	65	65																																					
SM1140																																65	65	65	65	65																																	
SM1150																																65	65	65	65	65																																	
SM1200																																					53	53	53	53	53	53	53	53	53																									
E&M SySMemwide																																																																						
SM3001																																																	56	56	56	56	56	56	56	56	56	56	56							
Emergency Stair at MSC																																																																						
Construction																																																																						
QM1140																																																																						
QM1150																																																																						
QM1160																																																																						
QM1180																																																																						
QM1200																																																																						
QM1210																																																																						
QM1220																																																											52	52	52	52	52							
QM1260																																																																59	59	59	59	59	59	
Worst Construction Noise Level during the Specific Week	66	66	66	70	70	70	70	71	71	72	72	72	72	71	71	71	79	79	79	78	78	78	78	78	78	79	79	79	79	79	79	79	81	78	78	78	77	69	69	69	70	68	68	70	70	70	68	68	68	62	70	70	71	72	71	71	70	70	70	70	70	62	61	61	59	59	59
Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N7b"

| Task | Sound Power Level dB(A) | Slant Distance m | Distance Correction dB(A) | Corrected Noise Level dB(A) | Construction Schedule Start Wk | Start Day | End Wk | End Day | Week Number 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 |
|---|---|---

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N7b"

| Task | Sound Power Level dB(A) | Slant Distance m | Distance Correction dB(A) | Corrected Noise Level dB(A) | Construction Schedule Start Wk | Start Day | End Wk | End Day | Week Number 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 |
|---|---|---

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N7b"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	-	-	-	32	5	36	1
SC2010	114	-	-	-	36	1	37	4
SC2020	113	-	-	-	37	4	38	5
SC2030	115	-	-	-	38	5	40	3
SC2035	113	-	-	-	38	5	43	5
SC2040	113	-	-	-	40	3	42	2
SC2050	103	-	-	-	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	-	-	-	46	2	47	4
SC2125	114	-	-	-	47	4	49	1
SC2130	113	-	-	-	49	1	50	2
SC2133	113	-	-	-	50	2	53	4
SC2135	115	-	-	-	50	2	51	6
SC2140	113	-	-	-	51	6	53	5
SC2145	104	-	-	-	53	5	57	2
TTM Stage 8								
SC2180	114	-	-	-	57	2	57	6
SC2200	113	-	-	-	58	1	60	2
SC2220	115	-	-	-	60	3	67	2
SC2240	113	-	-	-	67	2	68	6
SC2260	104	-	-	-	68	6	72	2
SC2280	112	-	-	-	73	3	75	6
SC2300	99	-	-	-	75	6	78	6
SC2320	112	-	-	-	78	6	81	3
SC2360	105	-	-	-	109	1	118	6
SC2370	105	-	-	-	119	1	122	2
SC2380	105	-	-	-	122	3	126	2
E&M Systemwide								
SC3001	103	-	-	-	122	3	132	2
Subway TST								
Construction								
ST1000	112	-	-	-	85	4	101	3
ST1120	110	-	-	-	101	4	105	5
ST1130	100	-	-	-	105	6	114	2
E&M Systemwide								
ST3001	103	-	-	-	119	3	129	2
Subway MSC								
Construction								
SM1100	112	-	-	-	85	4	96	1
SM1120	112	-	-	-	96	2	100	3
SM1140	112	-	-	-	100	4	104	5
SM1150	112	-	-	-	100	4	104	5
SM1200	100	-	-	-	104	6	113	2
E&M SySMemwide								
SM3001	103	-	-	-	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	-	-	-	1	2	1	4
QM1150	102	-	-	-	1	5	2	3
QM1160	113	-	-	-	1	5	2	3
QM1180	111	-	-	-	2	4	5	5
QM1200	113	-	-	-	5	6	6	4
QM1210	103	-	-	-	6	5	8	2
QM1220	104	-	-	-	126	3	130	3
QM1260	111	-	-	-	130	4	135	3

Week Number

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
SC2000																																-	-	-	-	-																																	
SC2010																																				-	-																																
SC2020																																					-	-																														
SC2030																																						-	-	-																													
SC2035																																						-	-	-	-	-	-																										
SC2040																																								-	-	-																									
SC2050																																										-	-	-	-																						
SC2100																																														-	-																				
SC2125																																															-	-	-																	
SC2130																																																	-	-																
SC2133																																																		-	-	-	-														
SC2135																																																		-	-																
SC2140																																																			-	-	-													
SC2145																																																				-	-	-	-	-									
SC2180																																																							-									
SC2200																																																								-	-	-						
SC2220																																																											-	-	-	-	-	-	-	-	
SC2240																																																																	-	-
SC2260																																																																		-
SC2280																																																																		
SC2300																																																																		
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SC2380																																																																		
SC3001																																																																		
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SM1100																																																																		
SM1120																																																																		
SM1140																																																																		
SM1150																																																																		
SM1200																																																																		
SM3001																																																																		
QM1140	-																																																																	
QM1150	-	-																																																																
QM1160		-																																																																
QM1180		-	-	-	-																																																													
QM1200					-	-																																																												
QM1210						-	-	-																																																									
QM1220																																																																		
QM1260																																																																		
Worst Construction Noise Level during the Specific Week	-	84	60	84	84	85	79	79	79	79	80	82	80	80	82	79	81	77	77	77	77	78	72	81	80	82	79	76	76	77	68	78	78	78	78	77	77	77	77	76	76	76	76	76	76	76	76	76	76	76	76	76	76	46	46	46	71	71	71	71	71	71	71	71	71	71	74	71
Week Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68

Appendix 4.3 Calculation of Construction Noise Levels at Representative Noise Sensitive Receivers During Normal Daytime Working Hours (Unmitigated Scenario) - "N7b"

Task	Sound Power Level dB(A)	Slant Distance m	Distance Correction dB(A)	Corrected Noise Level dB(A)	Construction Schedule Start Wk	Start Day	End Wk	End Day
TTM Stage 4								
SC2000	113	-	-	-	32	5	36	1
SC2010	114	-	-	-	36	1	37	4
SC2020	113	-	-	-	37	4	38	5
SC2030	115	-	-	-	38	5	40	3
SC2035	113	-	-	-	38	5	43	5
SC2040	113	-	-	-	40	3	42	2
SC2050	103	-	-	-	42	2	45	5
TTM Stage 5 to 7								
SC2100	113	-	-	-	46	2	47	4
SC2125	114	-	-	-	47	4	49	1
SC2130	113	-	-	-	49	1	50	2
SC2133	113	-	-	-	50	2	53	4
SC2135	115	-	-	-	50	2	51	6
SC2140	113	-	-	-	51	6	53	5
SC2145	104	-	-	-	53	5	57	2
TTM Stage 8								
SC2180	114	-	-	-	57	2	57	6
SC2200	113	-	-	-	58	1	60	2
SC2220	115	-	-	-	60	3	67	2
SC2240	113	-	-	-	67	2	68	6
SC2260	104	-	-	-	68	6	72	2
SC2280	112	-	-	-	73	3	75	6
SC2300	99	-	-	-	75	6	78	6
SC2320	112	-	-	-	78	6	81	3
SC2360	105	-	-	-	109	1	118	6
SC2370	105	-	-	-	119	1	122	2
SC2380	105	-	-	-	122	3	126	2
E&M Systemwide								
SC3001	103	-	-	-	122	3	132	2
Subway TST								
Construction								
ST1000	112	-	-	-	85	4	101	3
ST1120	110	-	-	-	101	4	105	5
ST1130	100	-	-	-	105	6	114	2
E&M Systemwide								
ST3001	103	-	-	-	119	3	129	2
Subway MSC								
Construction								
SM1100	112	-	-	-	85	4	96	1
SM1120	112	-	-	-	96	2	100	3
SM1140	112	-	-	-	100	4	104	5
SM1150	112	-	-	-	100	4	104	5
SM1200	100	-	-	-	104	6	113	2
E&M SySMemwide								
SM3001	103	-	-	-	117	5	127	4
Emergency Stair at MSC								
Construction								
QM1140	114	-	-	-	1	2	1	4
QM1150	102	-	-	-	1	5	2	3
QM1160	113	-	-	-	1	5	2	3
QM1180	111	-	-	-	2	4	5	5
QM1200	113	-	-	-	5	6	6	4
QM1210	103	-	-	-	6	5	8	2
QM1220	104	-	-	-	126	3	130	3
QM1260	111	-	-	-	130	4	135	3

Week Number

Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Worst Construction Noise Level during the Specific Week	71	71	71	75	72	72	72	76	76	76	76	76	76	76	76	76	76	76	77	68	68	68	68	68	68	73	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	-	-	74	74	74	74	74	74	-	-	-	72	72	72	72	-	-	-	-	-	-	-	-	-	-	-
Week Number	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135