

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
CG1 1/F	35.1	32	30	31	C	70	60	65	0	0	0	Yes
CG1 2/F	38.2	33	31	32	C	70	60	65	0	0	0	Yes
CG1 3/F	41.3	34	32	33	C	70	60	65	0	0	0	Yes
CG1 4/F	44.4	35	33	34	C	70	60	65	0	0	0	Yes
CG1 5/F	47.5	36	34	35	C	70	60	65	0	0	0	Yes
CG1 6/F	50.6	37	35	36	C	70	60	65	0	0	0	Yes
CG1 7/F	53.7	37	36	37	C	70	60	65	0	0	0	Yes
CG1 8/F	56.8	38	37	38	C	70	60	65	0	0	0	Yes
CG1 9/F	59.9	39	38	39	C	70	60	65	0	0	0	Yes
CG1 10/F	63	40	38	39	C	70	60	65	0	0	0	Yes
CG1 11/F	66.1	40	39	40	C	70	60	65	0	0	0	Yes
CG1 12/F	69.2	41	40	41	C	70	60	65	0	0	0	Yes
CG1 13/F	72.3	41	40	41	C	70	60	65	0	0	0	Yes
CG1 14/F	75.4	42	40	41	C	70	60	65	0	0	0	Yes
CG1 15/F	78.5	42	41	42	C	70	60	65	0	0	0	Yes
CG1 16/F	81.6	43	41	42	C	70	60	65	0	0	0	Yes
CG1 17/F	84.7	43	42	43	C	70	60	65	0	0	0	Yes
CG1 18/F	87.8	43	42	43	C	70	60	65	0	0	0	Yes
CG1 19/F	90.9	44	42	43	C	70	60	65	0	0	0	Yes
CG1 20/F	94	44	42	44	C	70	60	65	0	0	0	Yes
CG1 21/F	97.1	44	43	44	C	70	60	65	0	0	0	Yes
CG1 22/F	100.2	44	43	44	C	70	60	65	0	0	0	Yes
CG1 23/F	103.3	45	43	44	C	70	60	65	0	0	0	Yes
CG1 24/F	106.4	45	43	44	C	70	60	65	0	0	0	Yes
CG1 25/F	109.5	45	44	45	C	70	60	65	0	0	0	Yes
CG1 26/F	112.6	45	44	45	C	70	60	65	0	0	0	Yes
CG1 27/F	115.7	45	44	45	C	70	60	65	0	0	0	Yes
CG1 28/F	118.8	45	44	45	C	70	60	65	0	0	0	Yes
CG1 29/F	121.9	46	44	45	C	70	60	65	0	0	0	Yes
CG1 30/F	125	46	44	45	C	70	60	65	0	0	0	Yes
CG1 31/F	128.1	46	44	45	C	70	60	65	0	0	0	Yes
CG1 32/F	131.2	46	44	45	C	70	60	65	0	0	0	Yes
CG1 33/F	134.3	46	45	46	C	70	60	65	0	0	0	Yes
CG1 34/F	137.4	46	45	46	C	70	60	65	0	0	0	Yes
CG1 35/F	140.5	46	45	46	C	70	60	65	0	0	0	Yes
CG1 36/F	143.6	46	45	46	C	70	60	65	0	0	0	Yes
THT G/F	5.5	41	-	41	C	70	-	65	0	-	0	Yes
OM1 1/F	9.3	43	41	42	B	65	55	65	0	0	0	Yes
OM1 2/F	11.9	43	42	43	B	65	55	65	0	0	0	Yes
OM1 3/F	14.5	43	42	43	B	65	55	65	0	0	0	Yes
OM1 4/F	17.1	44	42	43	B	65	55	65	0	0	0	Yes
OM1 5/F	19.7	44	43	44	B	65	55	65	0	0	0	Yes
OM1 6/F	22.3	45	43	44	B	65	55	65	0	0	0	Yes
OM1 7/F	24.9	45	44	45	B	65	55	65	0	0	0	Yes
OM1 8/F	27.5	46	45	46	B	65	55	65	0	0	0	Yes
OM1 9/F	30.1	47	45	46	B	65	55	65	0	0	0	Yes
OM1 10/F	32.7	48	46	47	B	65	55	65	0	0	0	Yes
OM1 11/F	35.3	48	47	48	B	65	55	65	0	0	0	Yes
OM1 12/F	37.9	49	47	48	B	65	55	65	0	0	0	Yes
OM1 13/F	40.5	49	47	49	B	65	55	65	0	0	0	Yes
OM1 14/F	43.1	50	48	49	B	65	55	65	0	0	0	Yes
OM1 15/F	45.7	51	49	50	B	65	55	65	0	0	0	Yes
OM1 16/F	48.3	51	50	51	B	65	55	65	0	0	0	Yes
OM1 17/F	50.9	52	50	51	B	65	55	65	0	0	0	Yes
OM1 18/F	53.5	52	50	52	B	65	55	65	0	0	0	Yes
OM1 19/F	56.1	52	51	52	B	65	55	65	0	0	0	Yes
OM1 20/F	58.7	52	51	52	B	65	55	65	0	0	0	Yes
OM1 21/F	61.3	53	51	52	B	65	55	65	0	0	0	Yes
OM1 22/F	63.9	53	51	52	B	65	55	65	0	0	0	Yes
OM1 23/F	66.5	53	51	52	B	65	55	65	0	0	0	Yes
OM1 24/F	69.1	53	52	53	B	65	55	65	0	0	0	Yes
OM1 25/F	71.7	53	52	53	B	65	55	65	0	0	0	Yes
OM1 26/F	74.3	53	52	53	B	65	55	65	0	0	0	Yes
OM1 27/F	76.9	53	52	53	B	65	55	65	0	0	0	Yes
OM2 1/F	9.3	41	40	41	B	65	55	65	0	0	0	Yes
OM2 2/F	11.9	42	40	41	B	65	55	65	0	0	0	Yes
OM2 3/F	14.5	42	40	42	B	65	55	65	0	0	0	Yes
OM2 4/F	17.1	42	41	42	B	65	55	65	0	0	0	Yes
OM2 5/F	19.7	43	41	42	B	65	55	65	0	0	0	Yes
OM2 6/F	22.3	43	42	43	B	65	55	65	0	0	0	Yes
OM2 7/F	24.9	44	42	43	B	65	55	65	0	0	0	Yes
OM2 8/F	27.5	45	43	44	B	65	55	65	0	0	0	Yes
OM2 9/F	30.1	45	44	45	B	65	55	65	0	0	0	Yes
OM2 10/F	32.7	46	44	45	B	65	55	65	0	0	0	Yes
OM2 11/F	35.3	47	45	46	B	65	55	65	0	0	0	Yes
OM2 12/F	37.9	47	46	47	B	65	55	65	0	0	0	Yes
OM2 13/F	40.5	47	46	47	B	65	55	65	0	0	0	Yes
OM2 14/F	43.1	48	47	48	B	65	55	65	0	0	0	Yes

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NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
OM2 15/F	45.7	49	47	48	B	65	55	65	0	0	0	Yes
OM2 16/F	48.3	50	48	49	B	65	55	65	0	0	0	Yes
OM2 17/F	50.9	50	49	50	B	65	55	65	0	0	0	Yes
OM2 18/F	53.5	51	49	50	B	65	55	65	0	0	0	Yes
OM2 19/F	56.1	51	49	50	B	65	55	65	0	0	0	Yes
OM2 20/F	58.7	51	50	51	B	65	55	65	0	0	0	Yes
OM2 21/F	61.3	51	50	51	B	65	55	65	0	0	0	Yes
OM2 22/F	63.9	52	50	51	B	65	55	65	0	0	0	Yes
OM2 23/F	66.5	52	50	51	B	65	55	65	0	0	0	Yes
OM2 24/F	69.1	52	50	51	B	65	55	65	0	0	0	Yes
OM2 25/F	71.7	52	50	51	B	65	55	65	0	0	0	Yes
OM2 26/F	74.3	52	51	52	B	65	55	65	0	0	0	Yes
OM2 27/F	76.9	52	51	52	B	65	55	65	0	0	0	Yes
IPS G/F	5.2	46	-	46	B	65	-	65	0	-	0	Yes
IPS 1/F	8.7	47	-	47	B	65	-	65	0	-	0	Yes
IPS 2/F	12.2	48	-	48	B	65	-	65	0	-	0	Yes
IPS 3/F	15.7	49	-	49	B	65	-	65	0	-	0	Yes
IPS 4/F	19.2	51	-	51	B	65	-	65	0	-	0	Yes
IPS 5/F	22.7	55	-	54	B	65	-	65	0	-	0	Yes
IPS 6/F	26.2	59	-	58	B	65	-	65	0	-	0	Yes
OT0 G/F	5.7	44	-	44	B	65	-	65	0	-	0	Yes
OT1 1/F	9.2	47	45	46	B	65	55	65	0	0	0	Yes
OT1 2/F	11.8	47	46	47	B	65	55	65	0	0	0	Yes
OT1 3/F	14.4	48	47	48	B	65	55	65	0	0	0	Yes
OT1 4/F	17	49	48	49	B	65	55	65	0	0	0	Yes
OT1 5/F	19.6	50	49	50	B	65	55	65	0	0	0	Yes
OT1 6/F	22.2	52	50	51	B	65	55	65	0	0	0	Yes
OT1 7/F	24.8	54	53	54	B	65	55	65	0	0	0	Yes
OT1 8/F	27.4	57	55	56	B	65	55	65	0	0	0	Yes
OT1 9/F	30	59	58	59	B	65	55	65	0	2.8	0	No
OT1 10/F	32.6	60	59	60	B	65	55	65	0	3.9	0	No
OT1 11/F	35.2	61	60	61	B	65	55	65	0	4.5	0	No
OT1 12/F	37.8	62	60	61	B	65	55	65	0	5	0	No
OT1 13/F	40.4	62	60	61	B	65	55	65	0	5	0	No
OT1 14/F	43	62	60	61	B	65	55	65	0	5	0	No
OT1 15/F	45.6	62	60	61	B	65	55	65	0	5.1	0	No
OT1 16/F	48.2	62	60	61	B	65	55	65	0	5.2	0	No
OT1 17/F	50.8	62	60	61	B	65	55	65	0	5.2	0	No
OT1 18/F	53.4	62	60	61	B	65	55	65	0	5.2	0	No
OT1 19/F	56	62	60	61	B	65	55	65	0	5.1	0	No
OT1 20/F	58.6	61	60	61	B	65	55	65	0	4.9	0	No
OT1 21/F	61.2	61	60	61	B	65	55	65	0	4.8	0	No
OT1 22/F	63.8	61	60	61	B	65	55	65	0	4.6	0	No
OT1 23/F	66.4	61	59	61	B	65	55	65	0	4.4	0	No
OT1 24/F	69	61	59	60	B	65	55	65	0	4.3	0	No
OT1 25/F	71.6	61	59	60	B	65	55	65	0	4.1	0	No
OT2 1/F	9.2	45	43	44	B	65	55	65	0	0	0	Yes
OT2 2/F	11.8	45	44	45	B	65	55	65	0	0	0	Yes
OT2 3/F	14.4	46	45	46	B	65	55	65	0	0	0	Yes
OT2 4/F	17	47	45	46	B	65	55	65	0	0	0	Yes
OT2 5/F	19.6	48	46	47	B	65	55	65	0	0	0	Yes
OT2 6/F	22.2	49	47	48	B	65	55	65	0	0	0	Yes
OT2 7/F	24.8	50	49	50	B	65	55	65	0	0	0	Yes
OT2 8/F	27.4	52	50	51	B	65	55	65	0	0	0	Yes
OT2 9/F	30	53	52	53	B	65	55	65	0	0	0	Yes
OT2 10/F	32.6	55	54	55	B	65	55	65	0	0	0	Yes
OT2 11/F	35.2	56	55	56	B	65	55	65	0	0	0	Yes
OT2 12/F	37.8	57	56	57	B	65	55	65	0	0.6	0	No
OT2 13/F	40.4	58	56	57	B	65	55	65	0	1	0	No
OT2 14/F	43	58	56	57	B	65	55	65	0	1.4	0	No
OT2 15/F	45.6	58	57	58	B	65	55	65	0	1.6	0	No
OT2 16/F	48.2	58	57	58	B	65	55	65	0	1.6	0	No
OT2 17/F	50.8	58	57	58	B	65	55	65	0	1.6	0	No
OT2 18/F	53.4	58	57	58	B	65	55	65	0	1.6	0	No
OT2 19/F	56	58	57	58	B	65	55	65	0	1.5	0	No
OT2 20/F	58.6	58	57	58	B	65	55	65	0	1.6	0	No
OT2 21/F	61.2	58	57	58	B	65	55	65	0	1.6	0	No
OT2 22/F	63.8	58	57	58	B	65	55	65	0	1.6	0	No
OT2 23/F	66.4	58	57	58	B	65	55	65	0	1.6	0	No
OT2 24/F	69	58	57	58	B	65	55	65	0	1.5	0	No
OT2 25/F	71.6	58	56	58	B	65	55	65	0	1.4	0	No
OT3 1/F	9.2	39	38	39	B	65	55	65	0	0	0	Yes
OT3 2/F	11.8	40	38	39	B	65	55	65	0	0	0	Yes
OT3 3/F	14.4	40	38	40	B	65	55	65	0	0	0	Yes
OT3 4/F	17	40	39	40	B	65	55	65	0	0	0	Yes
OT3 5/F	19.6	41	39	40	B	65	55	65	0	0	0	Yes
OT3 6/F	22.2	41	40	41	B	65	55	65	0	0	0	Yes
OT3 7/F	24.8	42	41	42	B	65	55	65	0	0	0	Yes
OT3 8/F	27.4	43	41	42	B	65	55	65	0	0	0	Yes

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NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			Noise Criteria				Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)	ASR	Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
OT3 9/F	30	44	42	43	B	65	55	65	0	0	0	Yes
OT3 10/F	32.6	45	43	44	B	65	55	65	0	0	0	Yes
OT3 11/F	35.2	45	44	45	B	65	55	65	0	0	0	Yes
OT3 12/F	37.8	46	45	46	B	65	55	65	0	0	0	Yes
OT3 13/F	40.4	47	45	46	B	65	55	65	0	0	0	Yes
OT3 14/F	43	47	46	47	B	65	55	65	0	0	0	Yes
OT3 15/F	45.6	48	47	48	B	65	55	65	0	0	0	Yes
OT3 16/F	48.2	49	48	49	B	65	55	65	0	0	0	Yes
OT3 17/F	50.8	50	48	49	B	65	55	65	0	0	0	Yes
OT3 18/F	53.4	50	49	50	B	65	55	65	0	0	0	Yes
OT3 19/F	56	51	49	50	B	65	55	65	0	0	0	Yes
OT3 20/F	58.6	51	50	51	B	65	55	65	0	0	0	Yes
OT3 21/F	61.2	51	50	51	B	65	55	65	0	0	0	Yes
OT3 22/F	63.8	51	50	51	B	65	55	65	0	0	0	Yes
OT3 23/F	66.4	52	50	51	B	65	55	65	0	0	0	Yes
OT3 24/F	69	52	50	51	B	65	55	65	0	0	0	Yes
OT3 25/F	71.6	52	50	51	B	65	55	65	0	0	0	Yes
OL0 G/F	5.7	44	-	44	B	65	-	65	0	-	0	Yes
OL1 1/F	9.2	46	44	45	B	65	55	65	0	0	0	Yes
OL1 2/F	11.8	46	45	46	B	65	55	65	0	0	0	Yes
OL1 3/F	14.4	47	46	47	B	65	55	65	0	0	0	Yes
OL1 4/F	17	48	46	47	B	65	55	65	0	0	0	Yes
OL1 5/F	19.6	49	47	48	B	65	55	65	0	0	0	Yes
OL1 6/F	22.2	50	48	49	B	65	55	65	0	0	0	Yes
OL1 7/F	24.8	51	50	51	B	65	55	65	0	0	0	Yes
OL1 8/F	27.4	54	52	53	B	65	55	65	0	0	0	Yes
OL1 9/F	30	55	54	55	B	65	55	65	0	0	0	Yes
OL1 10/F	32.6	58	56	57	B	65	55	65	0	1.3	0	No
OL1 11/F	35.2	59	57	58	B	65	55	65	0	2.4	0	No
OL1 12/F	37.8	60	58	59	B	65	55	65	0	3	0	No
OL1 13/F	40.4	60	59	60	B	65	55	65	0	3.5	0	No
OL1 14/F	43	60	59	60	B	65	55	65	0	3.8	0	No
OL1 15/F	45.6	60	59	60	B	65	55	65	0	3.9	0	No
OL1 16/F	48.2	60	59	60	B	65	55	65	0	3.9	0	No
OL1 17/F	50.8	60	59	60	B	65	55	65	0	3.9	0	No
OL1 18/F	53.4	61	59	60	B	65	55	65	0	4.1	0	No
OL1 19/F	56	61	59	60	B	65	55	65	0	4.1	0	No
OL1 20/F	58.6	61	59	60	B	65	55	65	0	4.2	0	No
OL1 21/F	61.2	61	59	60	B	65	55	65	0	4.1	0	No
OL1 22/F	63.8	61	59	60	B	65	55	65	0	4.1	0	No
OL1 23/F	66.4	61	59	60	B	65	55	65	0	4	0	No
OL1 24/F	69	60	59	60	B	65	55	65	0	3.9	0	No
OL1 25/F	71.6	60	59	60	B	65	55	65	0	3.8	0	No
OL1 26/F	74.2	60	59	60	B	65	55	65	0	3.7	0	No
OL1 27/F	76.8	60	59	60	B	65	55	65	0	3.6	0	No
OL2 1/F	9.2	44	42	44	C	70	60	65	0	0	0	Yes
OL2 2/F	11.8	44	43	44	C	70	60	65	0	0	0	Yes
OL2 3/F	14.4	45	43	44	C	70	60	65	0	0	0	Yes
OL2 4/F	17	45	44	45	C	70	60	65	0	0	0	Yes
OL2 5/F	19.6	46	44	45	C	70	60	65	0	0	0	Yes
OL2 6/F	22.2	47	45	46	C	70	60	65	0	0	0	Yes
OL2 7/F	24.8	47	46	47	C	70	60	65	0	0	0	Yes
OL2 8/F	27.4	49	47	48	C	70	60	65	0	0	0	Yes
OL2 9/F	30	50	48	49	C	70	60	65	0	0	0	Yes
OL2 10/F	32.6	51	49	51	C	70	60	65	0	0	0	Yes
OL2 11/F	35.2	52	51	52	C	70	60	65	0	0	0	Yes
OL2 12/F	37.8	53	52	53	C	70	60	65	0	0	0	Yes
OL2 13/F	40.4	54	53	54	C	70	60	65	0	0	0	Yes
OL2 14/F	43	55	53	54	C	70	60	65	0	0	0	Yes
OL2 15/F	45.6	55	53	54	C	70	60	65	0	0	0	Yes
OL2 16/F	48.2	55	54	55	C	70	60	65	0	0	0	Yes
OL2 17/F	50.8	55	54	55	C	70	60	65	0	0	0	Yes
OL2 18/F	53.4	56	54	55	C	70	60	65	0	0	0	Yes
OL2 19/F	56	56	54	55	C	70	60	65	0	0	0	Yes
OL2 20/F	58.6	56	54	55	C	70	60	65	0	0	0	Yes
OL2 21/F	61.2	56	54	55	C	70	60	65	0	0	0	Yes
OL2 22/F	63.8	56	54	55	C	70	60	65	0	0	0	Yes
OL2 23/F	66.4	56	54	55	C	70	60	65	0	0	0	Yes
OL2 24/F	69	56	55	56	C	70	60	65	0	0	0	Yes
OL2 25/F	71.6	56	55	56	C	70	60	65	0	0	0	Yes
OL2 26/F	74.2	56	55	56	C	70	60	65	0	0	0	Yes
OL2 27/F	76.8	56	55	56	C	70	60	65	0	0	0	Yes
THRPH1b 3/F	22.9	46	45	46	B	65	55	65	0	0	0	Yes
THRPH1b 4/F	25.7	47	45	46	B	65	55	65	0	0	0	Yes
THRPH1b 5/F	28.5	47	46	47	B	65	55	65	0	0	0	Yes
THRPH1b 6/F	31.3	48	46	47	B	65	55	65	0	0	0	Yes
THRPH1b 7/F	34.1	49	47	48	B	65	55	65	0	0	0	Yes
THRPH1b 8/F	36.9	49	48	49	B	65	55	65	0	0	0	Yes
THRPH1b 9/F	39.7	50	48	49	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			Noise Criteria				Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)	ASR	Leq,30min		Leq, 24hr (dBA)	Leq,30min			
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
THRPH1b 10/F	42.5	50	49	50	B	65	55	65	0	0	0	Yes
THRPH1b 11/F	45.3	51	49	51	B	65	55	65	0	0	0	Yes
THRPH1b 12/F	48.1	52	50	51	B	65	55	65	0	0	0	Yes
THRPH1b 13/F	50.9	52	51	52	B	65	55	65	0	0	0	Yes
THRPH1b 14/F	53.7	53	51	52	B	65	55	65	0	0	0	Yes
THRPH1b 15/F	56.5	53	51	52	B	65	55	65	0	0	0	Yes
THRPH1b 16/F	59.3	53	52	53	B	65	55	65	0	0	0	Yes
THRPH1b 17/F	62.1	53	52	53	B	65	55	65	0	0	0	Yes
THRPH1b 18/F	64.9	54	52	53	B	65	55	65	0	0	0	Yes
THRPH1b 19/F	67.7	54	52	53	B	65	55	65	0	0	0	Yes
THRPH1b 20/F	70.5	54	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 21/F	73.3	54	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 22/F	76.1	54	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 23/F	78.9	54	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 24/F	81.7	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 25/F	84.5	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 26/F	87.3	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 27/F	90.1	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 28/F	92.9	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 29/F	95.7	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 30/F	98.5	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 31/F	101.3	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 32/F	104.1	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 33/F	106.9	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 34/F	109.7	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 35/F	112.5	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 36/F	115.3	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 37/F	118.1	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 38/F	120.9	55	53	54	B	65	55	65	0	0	0	Yes
THRPH1b 39/F	123.7	55	53	54	B	65	55	65	0	0	0	Yes
THRPH2a 2/F	17.8	46	45	46	C	70	60	65	0	0	0	Yes
THRPH2a 3/F	22.3	47	45	46	C	70	60	65	0	0	0	Yes
THRPH2b 4/F	27.4	47	46	47	B	65	55	65	0	0	0	Yes
THRPH2b 5/F	30.2	48	47	48	B	65	55	65	0	0	0	Yes
THRPH2b 6/F	33	49	47	48	B	65	55	65	0	0	0	Yes
THRPH2b 7/F	35.8	50	48	49	B	65	55	65	0	0	0	Yes
THRPH2b 8/F	38.6	50	49	50	B	65	55	65	0	0	0	Yes
THRPH2b 9/F	41.4	51	49	50	B	65	55	65	0	0	0	Yes
THRPH2b 10/F	44.2	51	50	51	B	65	55	65	0	0	0	Yes
THRPH2b 11/F	47	52	50	51	B	65	55	65	0	0	0	Yes
THRPH2b 12/F	49.8	53	51	52	B	65	55	65	0	0	0	Yes
THRPH2b 13/F	52.6	53	52	53	B	65	55	65	0	0	0	Yes
THRPH2b 14/F	55.4	54	52	53	B	65	55	65	0	0	0	Yes
THRPH2b 15/F	58.2	54	53	54	B	65	55	65	0	0	0	Yes
THRPH2b 16/F	61	54	53	54	B	65	55	65	0	0	0	Yes
THRPH2b 17/F	63.8	55	53	54	B	65	55	65	0	0	0	Yes
THRPH2b 18/F	66.6	55	53	54	B	65	55	65	0	0	0	Yes
THRPH2b 19/F	69.4	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 20/F	72.2	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 21/F	75	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 22/F	77.8	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 23/F	80.6	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 24/F	83.4	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 25/F	86.2	56	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 26/F	89	56	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 27/F	91.8	56	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 28/F	94.6	56	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 29/F	97.4	56	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 30/F	100.2	56	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 31/F	103	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 32/F	105.8	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 33/F	108.6	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 34/F	111.4	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 35/F	114.2	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 36/F	117	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 37/F	119.8	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 38/F	122.6	55	54	55	B	65	55	65	0	0	0	Yes
THRPH2b 39/F	125.4	55	53	55	B	65	55	65	0	0	0	Yes
THRPH2b 40/F	128.2	55	53	54	B	65	55	65	0	0	0	Yes
THRPH3b 3/F	22.9	46	44	45	C	70	60	65	0	0	0	Yes
THRPH3b 4/F	25.7	46	45	46	C	70	60	65	0	0	0	Yes
THRPH3b 5/F	28.5	47	45	46	C	70	60	65	0	0	0	Yes
THRPH3b 6/F	31.3	47	46	47	C	70	60	65	0	0	0	Yes
THRPH3b 7/F	34.1	48	46	47	C	70	60	65	0	0	0	Yes
THRPH3b 8/F	36.9	48	47	48	C	70	60	65	0	0	0	Yes
THRPH3b 9/F	39.7	49	47	48	C	70	60	65	0	0	0	Yes
THRPH3b 10/F	42.5	49	48	49	C	70	60	65	0	0	0	Yes
THRPH3b 11/F	45.3	50	48	49	C	70	60	65	0	0	0	Yes
THRPH3b 12/F	48.1	51	49	50	C	70	60	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
THRPH3b 13/F	50.9	51	50	51	C	70	60	65	0	0	0	Yes
THRPH3b 14/F	53.7	51	50	51	C	70	60	65	0	0	0	Yes
THRPH3b 15/F	56.5	52	50	51	C	70	60	65	0	0	0	Yes
THRPH3b 16/F	59.3	52	51	52	C	70	60	65	0	0	0	Yes
THRPH3b 17/F	62.1	52	51	52	C	70	60	65	0	0	0	Yes
THRPH3b 18/F	64.9	53	51	52	C	70	60	65	0	0	0	Yes
THRPH3b 19/F	67.7	53	51	52	C	70	60	65	0	0	0	Yes
THRPH3b 20/F	70.5	53	52	53	C	70	60	65	0	0	0	Yes
THRPH3b 21/F	73.3	53	52	53	C	70	60	65	0	0	0	Yes
THRPH3b 22/F	76.1	53	52	53	C	70	60	65	0	0	0	Yes
THRPH3b 23/F	78.9	54	52	53	C	70	60	65	0	0	0	Yes
THRPH3b 24/F	81.7	54	52	53	C	70	60	65	0	0	0	Yes
THRPH3b 25/F	84.5	54	52	53	C	70	60	65	0	0	0	Yes
THRPH3b 26/F	87.3	54	52	53	C	70	60	65	0	0	0	Yes
THRPH3b 27/F	90.1	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 28/F	92.9	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 29/F	95.7	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 30/F	98.5	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 31/F	101.3	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 32/F	104.1	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 33/F	106.9	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 34/F	109.7	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 35/F	112.5	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 36/F	115.3	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 37/F	118.1	54	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 38/F	120.9	55	53	54	C	70	60	65	0	0	0	Yes
THRPH3b 39/F	123.7	55	53	54	C	70	60	65	0	0	0	Yes
TE1 1/F	30.6	43	42	43	B	65	55	65	0	0	0	Yes
TE1 2/F	34.1	43	42	43	B	65	55	65	0	0	0	Yes
TE1 3/F	37.6	44	43	43	B	65	55	65	0	0	0	Yes
TE1 4/F	41.1	44	43	44	B	65	55	65	0	0	0	Yes
TE1 5/F	44.6	45	43	44	B	65	55	65	0	0	0	Yes
TE1 6/F	48.1	45	44	45	B	65	55	65	0	0	0	Yes
TE1 7/F	51.6	46	44	45	B	65	55	65	0	0	0	Yes
TE1 8/F	55.1	46	45	46	B	65	55	65	0	0	0	Yes
TE1 9/F	58.6	47	45	46	B	65	55	65	0	0	0	Yes
TE1 10/F	62.1	47	46	47	B	65	55	65	0	0	0	Yes
TE1 11/F	65.6	47	46	47	B	65	55	65	0	0	0	Yes
TE1 12/F	69.1	48	46	47	B	65	55	65	0	0	0	Yes
TE1 13/F	72.6	48	47	48	B	65	55	65	0	0	0	Yes
TE1 14/F	76.1	48	47	48	B	65	55	65	0	0	0	Yes
TE1 15/F	79.6	49	47	48	B	65	55	65	0	0	0	Yes
TE1 16/F	83.1	49	47	48	B	65	55	65	0	0	0	Yes
TE1 17/F	86.6	49	48	49	B	65	55	65	0	0	0	Yes
TE1 18/F	90.1	49	48	49	B	65	55	65	0	0	0	Yes
TE1 19/F	93.6	50	48	49	B	65	55	65	0	0	0	Yes
TE1 20/F	97.1	50	48	49	B	65	55	65	0	0	0	Yes
A16PH1 1/F	33.8	63	62	63	B	65	55	65	0	6.7	0	No
A16PH1 2/F	36.9	63	62	62	B	65	55	65	0	6.5	0	No
A16PH1 3/F	40	62	61	62	B	65	55	65	0	6.1	0	No
A16PH1 4/F	43.2	62	61	62	B	65	55	65	0	5.7	0	No
A16PH1 5/F	46.4	62	60	61	B	65	55	65	0	5.2	0	No
A16PH1 6/F	49.5	61	60	61	B	65	55	65	0	4.7	0	No
A16PH1 7/F	52.6	61	59	60	B	65	55	65	0	4.3	0	No
A16PH1 8/F	55.8	60	59	60	B	65	55	65	0	3.9	0	No
A16PH1 9/F	59	60	59	59	B	65	55	65	0	3.5	0	No
A16PH1 10/F	62.1	59	58	59	B	65	55	65	0	3.1	0	No
A16PH1 11/F	65.2	59	58	59	B	65	55	65	0	2.7	0	No
A16PH1 12/F	68.4	59	57	58	B	65	55	65	0	2.3	0	No
A16PH1 13/F	71.5	58	57	58	B	65	55	65	0	2	0	No
A16PH1 14/F	74.7	58	57	58	B	65	55	65	0	1.7	0	No
A16PH1 15/F	77.8	58	56	57	B	65	55	65	0	1.4	0	No
A16PH1 16/F	81	57	56	57	B	65	55	65	0	1.1	0	No
A16PH1 17/F	84.2	57	56	57	B	65	55	65	0	0.8	0	No
A16PH1 18/F	87.3	57	56	56	B	65	55	65	0	0.5	0	No
A16PH1 19/F	90.4	57	55	56	B	65	55	65	0	0	0	Yes
A16PH1 20/F	93.6	56	55	56	B	65	55	65	0	0	0	Yes
A16PH1 21/F	96.8	56	55	56	B	65	55	65	0	0	0	Yes
A16PH1 22/F	99.9	56	55	55	B	65	55	65	0	0	0	Yes
A16PH1 23/F	103	56	54	55	B	65	55	65	0	0	0	Yes
A16PH1 24/F	106.2	55	54	55	B	65	55	65	0	0	0	Yes
A16PH1 25/F	115.3	55	53	54	B	65	55	65	0	0	0	Yes
A16PH1 26/F	118.5	55	53	54	B	65	55	65	0	0	0	Yes
A16PH1 27/F	121.6	54	53	54	B	65	55	65	0	0	0	Yes
A16PH1 28/F	124.8	54	53	54	B	65	55	65	0	0	0	Yes
A16PH1 29/F	127.9	54	53	54	B	65	55	65	0	0	0	Yes
A16PH1 30/F	131.1	54	52	53	B	65	55	65	0	0	0	Yes
A16PH1 31/F	134.2	54	52	53	B	65	55	65	0	0	0	Yes
A16PH1 32/F	137.4	53	52	53	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			Noise Criteria				Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)	ASR	Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
A16PH1 33/F	140.5	53	52	53	B	65	55	65	0	0	0	Yes
A16PH1 34/F	143.7	53	52	53	B	65	55	65	0	0	0	Yes
A16PH1 35/F	146.8	53	52	53	B	65	55	65	0	0	0	Yes
A16PH1 36/F	150	53	51	52	B	65	55	65	0	0	0	Yes
A16PH1 37/F	153.1	53	51	52	B	65	55	65	0	0	0	Yes
A16PH1 38/F	156.3	53	51	52	B	65	55	65	0	0	0	Yes
A16PH1 39/F	159.4	52	51	52	B	65	55	65	0	0	0	Yes
A16PH1 40/F	162.6	52	51	52	B	65	55	65	0	0	0	Yes
A16PH1 41/F	165.8	52	51	52	B	65	55	65	0	0	0	Yes
A16PH1 42/F	168.9	52	51	52	B	65	55	65	0	0	0	Yes
A16PH1 43/F	172	52	50	51	B	65	55	65	0	0	0	Yes
A16PH1a 1/F	33.8	63	62	63	B	65	55	65	0	6.6	0	No
A16PH1a 2/F	36.9	63	61	62	B	65	55	65	0	6.3	0	No
A16PH1a 3/F	40	62	61	62	B	65	55	65	0	6	0	No
A16PH1a 4/F	43.2	62	61	62	B	65	55	65	0	5.6	0	No
A16PH1a 5/F	46.4	61	60	61	B	65	55	65	0	5.1	0	No
A16PH1a 6/F	49.5	61	60	61	B	65	55	65	0	4.7	0	No
A16PH1a 7/F	52.6	61	59	60	B	65	55	65	0	4.3	0	No
A16PH1a 8/F	55.8	60	59	60	B	65	55	65	0	3.8	0	No
A16PH1a 9/F	59	60	58	59	B	65	55	65	0	3.4	0	No
A16PH1a 10/F	62.1	59	58	59	B	65	55	65	0	3	0	No
A16PH1a 11/F	65.2	59	58	59	B	65	55	65	0	2.7	0	No
A16PH1a 12/F	68.4	59	57	58	B	65	55	65	0	2.3	0	No
A16PH1a 13/F	71.5	58	57	58	B	65	55	65	0	2	0	No
A16PH1a 14/F	74.7	58	57	58	B	65	55	65	0	1.6	0	No
A16PH1a 15/F	77.8	58	56	57	B	65	55	65	0	1.3	0	No
A16PH1a 16/F	81	57	56	57	B	65	55	65	0	1	0	No
A16PH1a 17/F	84.2	57	56	57	B	65	55	65	0	0.7	0	No
A16PH1a 18/F	87.3	57	56	56	B	65	55	65	0	0.5	0	No
A16PH1a 19/F	90.4	57	55	56	B	65	55	65	0	0	0	Yes
A16PH1a 20/F	93.6	56	55	56	B	65	55	65	0	0	0	Yes
A16PH1a 21/F	96.8	56	55	56	B	65	55	65	0	0	0	Yes
A16PH1a 22/F	99.9	56	55	55	B	65	55	65	0	0	0	Yes
A16PH1a 23/F	103	56	54	55	B	65	55	65	0	0	0	Yes
A16PH1a 24/F	106.2	55	54	55	B	65	55	65	0	0	0	Yes
A16PH1a 25/F	115.3	55	53	54	B	65	55	65	0	0	0	Yes
A16PH1a 26/F	118.5	55	53	54	B	65	55	65	0	0	0	Yes
A16PH1a 27/F	121.6	54	53	54	B	65	55	65	0	0	0	Yes
A16PH1a 28/F	124.8	54	53	54	B	65	55	65	0	0	0	Yes
A16PH1a 29/F	127.9	54	53	54	B	65	55	65	0	0	0	Yes
A16PH1a 30/F	131.1	54	52	53	B	65	55	65	0	0	0	Yes
A16PH1a 31/F	134.2	54	52	53	B	65	55	65	0	0	0	Yes
A16PH1a 32/F	137.4	53	52	53	B	65	55	65	0	0	0	Yes
A16PH1a 33/F	140.5	53	52	53	B	65	55	65	0	0	0	Yes
A16PH1a 34/F	143.7	53	52	53	B	65	55	65	0	0	0	Yes
A16PH1a 35/F	146.8	53	52	53	B	65	55	65	0	0	0	Yes
A16PH1a 36/F	150	53	51	52	B	65	55	65	0	0	0	Yes
A16PH1a 37/F	153.1	53	51	52	B	65	55	65	0	0	0	Yes
A16PH1a 38/F	156.3	53	51	52	B	65	55	65	0	0	0	Yes
A16PH1a 39/F	159.4	52	51	52	B	65	55	65	0	0	0	Yes
A16PH1a 40/F	162.6	52	51	52	B	65	55	65	0	0	0	Yes
A16PH1a 41/F	165.8	52	51	52	B	65	55	65	0	0	0	Yes
A16PH1a 42/F	168.9	52	51	52	B	65	55	65	0	0	0	Yes
A16PH1a 43/F	172	52	50	51	B	65	55	65	0	0	0	Yes
A16PH2 1/F	33.8	59	58	59	B	65	55	65	0	2.9	0	No
A16PH2 2/F	36.9	60	58	59	B	65	55	65	0	3.3	0	No
A16PH2 3/F	40	60	58	59	B	65	55	65	0	3.3	0	No
A16PH2 4/F	43.2	60	58	59	B	65	55	65	0	3.2	0	No
A16PH2 5/F	46.4	59	58	59	B	65	55	65	0	3	0	No
A16PH2 6/F	49.5	59	58	59	B	65	55	65	0	2.7	0	No
A16PH2 7/F	52.6	59	58	58	B	65	55	65	0	2.5	0	No
A16PH2 8/F	55.8	59	57	58	B	65	55	65	0	2.2	0	No
A16PH2 9/F	59	58	57	58	B	65	55	65	0	1.9	0	No
A16PH2 10/F	62.1	58	57	58	B	65	55	65	0	1.6	0	No
A16PH2 11/F	65.2	58	56	57	B	65	55	65	0	1.3	0	No
A16PH2 12/F	68.4	57	56	57	B	65	55	65	0	1.1	0	No
A16PH2 13/F	71.5	57	56	57	B	65	55	65	0	0.8	0	No
A16PH2 14/F	74.7	57	56	57	B	65	55	65	0	0.6	0	No
A16PH2 15/F	77.8	57	55	56	B	65	55	65	0	0	0	Yes
A16PH2 16/F	81	57	55	56	B	65	55	65	0	0	0	Yes
A16PH2 17/F	84.2	56	55	56	B	65	55	65	0	0	0	Yes
A16PH2 18/F	87.3	56	55	56	B	65	55	65	0	0	0	Yes
A16PH2 19/F	90.4	56	55	55	B	65	55	65	0	0	0	Yes
A16PH2 20/F	93.6	56	54	55	B	65	55	65	0	0	0	Yes
A16PH2 21/F	96.8	55	54	55	B	65	55	65	0	0	0	Yes
A16PH2 22/F	99.9	55	54	55	B	65	55	65	0	0	0	Yes
A16PH2 23/F	103	55	54	55	B	65	55	65	0	0	0	Yes
A16PH2 24/F	106.2	55	53	54	B	65	55	65	0	0	0	Yes
A16PH2 25/F	115.3	54	53	54	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			Noise Criteria				Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)	ASR	Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
A16PH2 26/F	118.5	54	53	54	B	65	55	65	0	0	0	Yes
A16PH2 27/F	121.6	54	53	54	B	65	55	65	0	0	0	Yes
A16PH2 28/F	124.8	54	52	53	B	65	55	65	0	0	0	Yes
A16PH2 29/F	127.9	54	52	53	B	65	55	65	0	0	0	Yes
A16PH2 30/F	131.1	53	52	53	B	65	55	65	0	0	0	Yes
A16PH2 31/F	134.2	53	52	53	B	65	55	65	0	0	0	Yes
A16PH2 32/F	137.4	53	52	53	B	65	55	65	0	0	0	Yes
A16PH2 33/F	140.5	53	52	52	B	65	55	65	0	0	0	Yes
A16PH2 34/F	143.7	53	51	52	B	65	55	65	0	0	0	Yes
A16PH2 35/F	146.8	53	51	52	B	65	55	65	0	0	0	Yes
A16PH2 36/F	150	52	51	52	B	65	55	65	0	0	0	Yes
A16PH2 37/F	153.1	52	51	52	B	65	55	65	0	0	0	Yes
A16PH2 38/F	156.3	52	51	52	B	65	55	65	0	0	0	Yes
A16PH2 39/F	159.4	52	51	52	B	65	55	65	0	0	0	Yes
A16PH2 40/F	162.6	52	50	51	B	65	55	65	0	0	0	Yes
A16PH2 41/F	165.8	52	50	51	B	65	55	65	0	0	0	Yes
A16PH2 42/F	168.9	52	50	51	B	65	55	65	0	0	0	Yes
A16PH2 43/F	172	51	50	51	B	65	55	65	0	0	0	Yes
A16PH3 1/F	36	43	43	43	B	65	55	65	0	0	0	Yes
A16PH3 2/F	39.1	43	43	43	B	65	55	65	0	0	0	Yes
A16PH3 3/F	42.3	42	42	42	B	65	55	65	0	0	0	Yes
A16PH3 4/F	45.5	42	42	42	B	65	55	65	0	0	0	Yes
A16PH3 5/F	48.6	42	41	42	B	65	55	65	0	0	0	Yes
A16PH3 6/F	51.8	42	41	41	B	65	55	65	0	0	0	Yes
A16PH3 7/F	54.9	42	41	41	B	65	55	65	0	0	0	Yes
A16PH3 8/F	58	42	41	41	B	65	55	65	0	0	0	Yes
A16PH3 9/F	61.2	42	41	42	B	65	55	65	0	0	0	Yes
A16PH3 10/F	64.3	42	41	42	B	65	55	65	0	0	0	Yes
A16PH3 11/F	67.5	42	41	42	B	65	55	65	0	0	0	Yes
A16PH3 12/F	70.7	42	42	42	B	65	55	65	0	0	0	Yes
A16PH3 13/F	73.8	43	42	42	B	65	55	65	0	0	0	Yes
A16PH3 14/F	76.9	43	42	43	B	65	55	65	0	0	0	Yes
A16PH3 15/F	80.1	43	42	43	B	65	55	65	0	0	0	Yes
A16PH3 16/F	83.2	43	42	43	B	65	55	65	0	0	0	Yes
A16PH3 17/F	86.4	43	42	43	B	65	55	65	0	0	0	Yes
A16PH3 18/F	89.5	44	42	43	B	65	55	65	0	0	0	Yes
A16PH3 19/F	92.7	44	43	43	B	65	55	65	0	0	0	Yes
A16PH3 20/F	95.8	44	43	44	B	65	55	65	0	0	0	Yes
A16PH3 21/F	99	44	43	44	B	65	55	65	0	0	0	Yes
A16PH3 22/F	102.1	44	43	44	B	65	55	65	0	0	0	Yes
A16PH3 23/F	105.3	44	43	44	B	65	55	65	0	0	0	Yes
A16PH3 24/F	108.5	44	43	44	B	65	55	65	0	0	0	Yes
A16PH3 25/F	117.6	45	43	44	B	65	55	65	0	0	0	Yes
A16PH3 26/F	120.8	45	43	44	B	65	55	65	0	0	0	Yes
A16PH3 27/F	123.9	45	43	44	B	65	55	65	0	0	0	Yes
A16PH3 28/F	127	45	44	44	B	65	55	65	0	0	0	Yes
A16PH3 29/F	130.2	45	44	44	B	65	55	65	0	0	0	Yes
A16PH3 30/F	133.3	45	44	45	B	65	55	65	0	0	0	Yes
A16PH3 31/F	136.5	45	44	45	B	65	55	65	0	0	0	Yes
A16PH3 32/F	139.7	45	44	45	B	65	55	65	0	0	0	Yes
A16PH3 33/F	142.8	45	44	45	B	65	55	65	0	0	0	Yes
A16PH3 34/F	145.9	45	44	45	B	65	55	65	0	0	0	Yes
A16PH4 1/F	36	43	43	43	B	65	55	65	0	0	0	Yes
A16PH4 2/F	39.1	43	42	43	B	65	55	65	0	0	0	Yes
A16PH4 3/F	42.3	42	42	42	B	65	55	65	0	0	0	Yes
A16PH4 4/F	45.5	42	41	41	B	65	55	65	0	0	0	Yes
A16PH4 5/F	48.6	41	41	41	B	65	55	65	0	0	0	Yes
A16PH4 6/F	51.8	41	41	41	B	65	55	65	0	0	0	Yes
A16PH4 7/F	54.9	41	40	41	B	65	55	65	0	0	0	Yes
A16PH4 8/F	58	41	40	41	B	65	55	65	0	0	0	Yes
A16PH4 9/F	61.2	41	40	41	B	65	55	65	0	0	0	Yes
A16PH4 10/F	64.3	41	40	41	B	65	55	65	0	0	0	Yes
A16PH4 11/F	67.5	41	40	41	B	65	55	65	0	0	0	Yes
A16PH4 12/F	70.7	41	40	41	B	65	55	65	0	0	0	Yes
A16PH4 13/F	73.8	42	41	41	B	65	55	65	0	0	0	Yes
A16PH4 14/F	76.9	42	41	41	B	65	55	65	0	0	0	Yes
A16PH4 15/F	80.1	42	41	42	B	65	55	65	0	0	0	Yes
A16PH4 16/F	83.2	42	41	42	B	65	55	65	0	0	0	Yes
A16PH4 17/F	86.4	43	41	42	B	65	55	65	0	0	0	Yes
A16PH4 18/F	89.5	43	42	42	B	65	55	65	0	0	0	Yes
A16PH4 19/F	92.7	43	42	43	B	65	55	65	0	0	0	Yes
A16PH4 20/F	95.8	43	42	43	B	65	55	65	0	0	0	Yes
A16PH4 21/F	99	44	42	43	B	65	55	65	0	0	0	Yes
A16PH4 22/F	102.1	44	42	43	B	65	55	65	0	0	0	Yes
A16PH4 23/F	105.3	44	43	44	B	65	55	65	0	0	0	Yes
A16PH4 24/F	108.5	44	43	44	B	65	55	65	0	0	0	Yes
A16PH4 25/F	117.6	45	43	44	B	65	55	65	0	0	0	Yes
A16PH4 26/F	120.8	45	43	44	B	65	55	65	0	0	0	Yes
A16PH4 27/F	123.9	45	43	44	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			Noise Criteria				Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)	ASR	Leq,30min		Leq, 24hr (dBA)	Leq,30min			
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
A16PH4 28/F	127	45	44	45	B	65	55	65	0	0	0	Yes
A16PH4 29/F	130.2	45	44	45	B	65	55	65	0	0	0	Yes
A16PH4 30/F	133.3	45	44	45	B	65	55	65	0	0	0	Yes
A16PH4 31/F	136.5	45	44	45	B	65	55	65	0	0	0	Yes
A16PH4 32/F	139.7	45	44	45	B	65	55	65	0	0	0	Yes
A16PH4 33/F	142.8	45	44	45	B	65	55	65	0	0	0	Yes
A16PH4 34/F	145.9	46	44	45	B	65	55	65	0	0	0	Yes
A16PH4a 1/F	36	43	43	43	B	65	55	65	0	0	0	Yes
A16PH4a 2/F	39.1	42	42	42	B	65	55	65	0	0	0	Yes
A16PH4a 3/F	42.3	42	41	41	B	65	55	65	0	0	0	Yes
A16PH4a 4/F	45.5	41	41	41	B	65	55	65	0	0	0	Yes
A16PH4a 5/F	48.6	40	40	40	B	65	55	65	0	0	0	Yes
A16PH4a 6/F	51.8	40	40	40	B	65	55	65	0	0	0	Yes
A16PH4a 7/F	54.9	40	40	40	B	65	55	65	0	0	0	Yes
A16PH4a 8/F	58	39	39	39	B	65	55	65	0	0	0	Yes
A16PH4a 9/F	61.2	39	39	39	B	65	55	65	0	0	0	Yes
A16PH4a 10/F	64.3	39	38	39	B	65	55	65	0	0	0	Yes
A16PH4a 11/F	67.5	38	38	38	B	65	55	65	0	0	0	Yes
A16PH4a 12/F	70.7	38	38	38	B	65	55	65	0	0	0	Yes
A16PH4a 13/F	73.8	38	38	38	B	65	55	65	0	0	0	Yes
A16PH4a 14/F	76.9	38	37	38	B	65	55	65	0	0	0	Yes
A16PH4a 15/F	80.1	38	37	37	B	65	55	65	0	0	0	Yes
A16PH4a 16/F	83.2	37	37	37	B	65	55	65	0	0	0	Yes
A16PH4a 17/F	86.4	37	37	37	B	65	55	65	0	0	0	Yes
A16PH4a 18/F	89.5	37	37	37	B	65	55	65	0	0	0	Yes
A16PH4a 19/F	92.7	37	37	37	B	65	55	65	0	0	0	Yes
A16PH4a 20/F	95.8	37	37	37	B	65	55	65	0	0	0	Yes
A16PH4a 21/F	99	37	37	37	B	65	55	65	0	0	0	Yes
A16PH4a 22/F	102.1	37	37	37	B	65	55	65	0	0	0	Yes
A16PH4a 23/F	105.3	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 24/F	108.5	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 25/F	117.6	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 26/F	120.8	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 27/F	123.9	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 28/F	127	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 29/F	130.2	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 30/F	133.3	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 31/F	136.5	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 32/F	139.7	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 33/F	142.8	37	36	37	B	65	55	65	0	0	0	Yes
A16PH4a 34/F	145.9	37	36	37	B	65	55	65	0	0	0	Yes
A16PH5 1/F	24.3	53	51	52	C	70	60	65	0	0	0	Yes
A16PH5 2/F	27.4	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5 3/F	30.6	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5 4/F	33.8	60	58	59	C	70	60	65	0	0	0	Yes
A16PH5 5/F	36.9	60	58	59	C	70	60	65	0	0	0	Yes
A16PH5 6/F	40	60	58	59	C	70	60	65	0	0	0	Yes
A16PH5 7/F	43.2	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5 8/F	46.4	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5 9/F	49.5	59	57	59	C	70	60	65	0	0	0	Yes
A16PH5 10/F	52.6	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5 11/F	55.8	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5 12/F	59	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5 13/F	62.1	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5 14/F	65.2	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5 15/F	68.4	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5 16/F	71.5	58	56	58	C	70	60	65	0	0	0	Yes
A16PH5 17/F	74.7	58	56	57	C	70	60	65	0	0	0	Yes
A16PH5 18/F	77.8	58	56	57	C	70	60	65	0	0	0	Yes
A16PH5 19/F	81	58	56	57	C	70	60	65	0	0	0	Yes
A16PH5 20/F	84.2	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5 21/F	87.3	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5 22/F	90.4	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5 23/F	93.6	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5 24/F	96.8	57	55	56	C	70	60	65	0	0	0	Yes
A16PH5 25/F	99.9	57	55	56	C	70	60	65	0	0	0	Yes
A16PH5 26/F	103	57	55	56	C	70	60	65	0	0	0	Yes
A16PH5 27/F	106.2	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5 28/F	115.3	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5 29/F	118.5	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5 30/F	121.6	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5 31/F	124.8	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5 32/F	127.9	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5 33/F	131.1	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5 34/F	134.2	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5 35/F	137.4	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5 36/F	140.5	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5 37/F	143.7	55	53	54	C	70	60	65	0	0	0	Yes
A16PH5 38/F	146.8	55	53	54	C	70	60	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
A16PH5 39/F	150	55	53	54	C	70	60	65	0	0	0	Yes
A16PH5 40/F	153.1	55	53	54	C	70	60	65	0	0	0	Yes
A16PH5 41/F	156.3	54	53	54	C	70	60	65	0	0	0	Yes
A16PH5 42/F	159.4	54	53	54	C	70	60	65	0	0	0	Yes
A16PH5 43/F	162.6	54	53	54	C	70	60	65	0	0	0	Yes
A16PH5 44/F	165.8	54	53	54	C	70	60	65	0	0	0	Yes
A16PH5 45/F	168.9	54	53	54	C	70	60	65	0	0	0	Yes
A16PH5 46/F	172	54	52	53	C	70	60	65	0	0	0	Yes
A16PH5a 1/F	24.3	52	50	51	B	65	55	65	0	0	0	Yes
A16PH5a 2/F	27.4	56	55	56	B	65	55	65	0	0	0	Yes
A16PH5a 3/F	30.6	59	57	58	B	65	55	65	0	2	0	No
A16PH5a 4/F	33.8	59	58	59	B	65	55	65	0	2.7	0	No
A16PH5a 5/F	36.9	59	58	59	B	65	55	65	0	2.5	0	No
A16PH5a 6/F	40	59	57	58	B	65	55	65	0	2.3	0	No
A16PH5a 7/F	43.2	59	57	58	B	65	55	65	0	2	0	No
A16PH5a 8/F	46.4	58	57	58	B	65	55	65	0	1.7	0	No
A16PH5a 9/F	49.5	58	57	58	B	65	55	65	0	1.5	0	No
A16PH5a 10/F	52.6	58	56	57	B	65	55	65	0	1.2	0	No
A16PH5a 11/F	55.8	57	56	57	B	65	55	65	0	0.9	0	No
A16PH5a 12/F	59	57	56	57	B	65	55	65	0	0.7	0	No
A16PH5a 13/F	62.1	57	55	56	B	65	55	65	0	0	0	Yes
A16PH5a 14/F	65.2	57	55	56	B	65	55	65	0	0	0	Yes
A16PH5a 15/F	68.4	56	55	56	B	65	55	65	0	0	0	Yes
A16PH5a 16/F	71.5	56	55	56	B	65	55	65	0	0	0	Yes
A16PH5a 17/F	74.7	56	55	56	B	65	55	65	0	0	0	Yes
A16PH5a 18/F	77.8	56	54	55	B	65	55	65	0	0	0	Yes
A16PH5a 19/F	81	56	54	55	B	65	55	65	0	0	0	Yes
A16PH5a 20/F	84.2	55	54	55	B	65	55	65	0	0	0	Yes
A16PH5a 21/F	87.3	55	54	55	B	65	55	65	0	0	0	Yes
A16PH5a 22/F	90.4	55	53	54	B	65	55	65	0	0	0	Yes
A16PH5a 23/F	93.6	55	53	54	B	65	55	65	0	0	0	Yes
A16PH5a 24/F	96.8	54	53	54	B	65	55	65	0	0	0	Yes
A16PH5a 25/F	99.9	54	53	54	B	65	55	65	0	0	0	Yes
A16PH5a 26/F	103	54	52	54	B	65	55	65	0	0	0	Yes
A16PH5a 27/F	106.2	54	52	53	B	65	55	65	0	0	0	Yes
A16PH5a 28/F	115.3	53	52	53	B	65	55	65	0	0	0	Yes
A16PH5a 29/F	118.5	53	51	52	B	65	55	65	0	0	0	Yes
A16PH5a 30/F	121.6	53	51	52	B	65	55	65	0	0	0	Yes
A16PH5a 31/F	124.8	52	51	52	B	65	55	65	0	0	0	Yes
A16PH5a 32/F	127.9	52	51	52	B	65	55	65	0	0	0	Yes
A16PH5a 33/F	131.1	52	50	51	B	65	55	65	0	0	0	Yes
A16PH5a 34/F	134.2	52	50	51	B	65	55	65	0	0	0	Yes
A16PH5a 35/F	137.4	52	50	51	B	65	55	65	0	0	0	Yes
A16PH5a 36/F	140.5	51	50	51	B	65	55	65	0	0	0	Yes
A16PH5a 37/F	143.7	51	50	51	B	65	55	65	0	0	0	Yes
A16PH5a 38/F	146.8	51	49	50	B	65	55	65	0	0	0	Yes
A16PH5a 39/F	150	51	49	50	B	65	55	65	0	0	0	Yes
A16PH5a 40/F	153.1	51	49	50	B	65	55	65	0	0	0	Yes
A16PH5a 41/F	156.3	50	49	50	B	65	55	65	0	0	0	Yes
A16PH5a 42/F	159.4	50	49	50	B	65	55	65	0	0	0	Yes
A16PH5a 43/F	162.6	50	48	50	B	65	55	65	0	0	0	Yes
A16PH5a 44/F	165.8	50	48	49	B	65	55	65	0	0	0	Yes
A16PH5a 45/F	168.9	50	48	49	B	65	55	65	0	0	0	Yes
A16PH5a 46/F	172	49	48	49	B	65	55	65	0	0	0	Yes
A16PH5b 1/F	24.3	52	51	52	C	70	60	65	0	0	0	Yes
A16PH5b 2/F	27.4	56	54	56	C	70	60	65	0	0	0	Yes
A16PH5b 3/F	30.6	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 4/F	33.8	60	58	59	C	70	60	65	0	0	0	Yes
A16PH5b 5/F	36.9	60	59	60	C	70	60	65	0	0	0	Yes
A16PH5b 6/F	40	60	58	59	C	70	60	65	0	0	0	Yes
A16PH5b 7/F	43.2	60	58	59	C	70	60	65	0	0	0	Yes
A16PH5b 8/F	46.4	60	58	59	C	70	60	65	0	0	0	Yes
A16PH5b 9/F	49.5	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5b 10/F	52.6	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5b 11/F	55.8	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5b 12/F	59	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5b 13/F	62.1	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 14/F	65.2	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 15/F	68.4	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 16/F	71.5	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 17/F	74.7	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 18/F	77.8	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 19/F	81	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 20/F	84.2	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 21/F	87.3	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5b 22/F	90.4	58	56	57	C	70	60	65	0	0	0	Yes
A16PH5b 23/F	93.6	58	56	57	C	70	60	65	0	0	0	Yes
A16PH5b 24/F	96.8	58	56	57	C	70	60	65	0	0	0	Yes
A16PH5b 25/F	99.9	57	56	57	C	70	60	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
A16PH5b 26/F	103	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5b 27/F	106.2	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5b 28/F	115.3	57	55	56	C	70	60	65	0	0	0	Yes
A16PH5b 29/F	118.5	57	55	56	C	70	60	65	0	0	0	Yes
A16PH5b 30/F	121.6	57	55	56	C	70	60	65	0	0	0	Yes
A16PH5b 31/F	124.8	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5b 32/F	127.9	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5b 33/F	131.1	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5b 34/F	134.2	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5b 35/F	137.4	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5b 36/F	140.5	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5b 37/F	143.7	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5b 38/F	146.8	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5b 39/F	150	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5b 40/F	153.1	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5b 41/F	156.3	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5b 42/F	159.4	55	53	54	C	70	60	65	0	0	0	Yes
A16PH5b 43/F	162.6	55	53	54	C	70	60	65	0	0	0	Yes
A16PH5b 44/F	165.8	55	53	54	C	70	60	65	0	0	0	Yes
A16PH5b 45/F	168.9	55	53	54	C	70	60	65	0	0	0	Yes
A16PH5b 46/F	172	54	53	54	C	70	60	65	0	0	0	Yes
A16PH5c 1/F	24.3	52	50	51	B	65	55	65	0	0	0	Yes
A16PH5c 2/F	27.4	55	54	55	B	65	55	65	0	0	0	Yes
A16PH5c 3/F	30.6	58	57	58	B	65	55	65	0	1.9	0	No
A16PH5c 4/F	33.8	59	58	59	B	65	55	65	0	2.9	0	No
A16PH5c 5/F	36.9	60	58	59	B	65	55	65	0	3.2	0	No
A16PH5c 6/F	40	60	58	59	B	65	55	65	0	3.1	0	No
A16PH5c 7/F	43.2	59	58	59	B	65	55	65	0	3	0	No
A16PH5c 8/F	46.4	59	58	59	B	65	55	65	0	2.8	0	No
A16PH5c 9/F	49.5	59	58	59	B	65	55	65	0	2.7	0	No
A16PH5c 10/F	52.6	59	58	59	B	65	55	65	0	2.6	0	No
A16PH5c 11/F	55.8	59	57	59	B	65	55	65	0	2.4	0	No
A16PH5c 12/F	59	59	57	58	B	65	55	65	0	2.3	0	No
A16PH5c 13/F	62.1	59	57	58	B	65	55	65	0	2.1	0	No
A16PH5c 14/F	65.2	59	57	58	B	65	55	65	0	2	0	No
A16PH5c 15/F	68.4	58	57	58	B	65	55	65	0	2	0	No
A16PH5c 16/F	71.5	58	57	58	B	65	55	65	0	1.9	0	No
A16PH5c 17/F	74.7	58	57	58	B	65	55	65	0	1.8	0	No
A16PH5c 18/F	77.8	58	57	58	B	65	55	65	0	1.7	0	No
A16PH5c 19/F	81	58	57	58	B	65	55	65	0	1.6	0	No
A16PH5c 20/F	84.2	58	57	58	B	65	55	65	0	1.5	0	No
A16PH5c 21/F	87.3	58	56	57	B	65	55	65	0	1.3	0	No
A16PH5c 22/F	90.4	58	56	57	B	65	55	65	0	1.2	0	No
A16PH5c 23/F	93.6	58	56	57	B	65	55	65	0	1.1	0	No
A16PH5c 24/F	96.8	57	56	57	B	65	55	65	0	0.9	0	No
A16PH5c 25/F	99.9	57	56	57	B	65	55	65	0	0.8	0	No
A16PH5c 26/F	103	57	56	57	B	65	55	65	0	0.7	0	No
A16PH5c 27/F	106.2	57	56	57	B	65	55	65	0	0.5	0	No
A16PH5c 28/F	115.3	57	55	56	B	65	55	65	0	0	0	Yes
A16PH5c 29/F	118.5	56	55	56	B	65	55	65	0	0	0	Yes
A16PH5c 30/F	121.6	56	55	56	B	65	55	65	0	0	0	Yes
A16PH5c 31/F	124.8	56	55	56	B	65	55	65	0	0	0	Yes
A16PH5c 32/F	127.9	56	55	56	B	65	55	65	0	0	0	Yes
A16PH5c 33/F	131.1	56	54	56	B	65	55	65	0	0	0	Yes
A16PH5c 34/F	134.2	56	54	55	B	65	55	65	0	0	0	Yes
A16PH5c 35/F	137.4	56	54	55	B	65	55	65	0	0	0	Yes
A16PH5c 36/F	140.5	56	54	55	B	65	55	65	0	0	0	Yes
A16PH5c 37/F	143.7	55	54	55	B	65	55	65	0	0	0	Yes
A16PH5c 38/F	146.8	55	54	55	B	65	55	65	0	0	0	Yes
A16PH5c 39/F	150	55	54	55	B	65	55	65	0	0	0	Yes
A16PH5c 40/F	153.1	55	54	55	B	65	55	65	0	0	0	Yes
A16PH5c 41/F	156.3	55	53	54	B	65	55	65	0	0	0	Yes
A16PH5c 42/F	159.4	55	53	54	B	65	55	65	0	0	0	Yes
A16PH5c 43/F	162.6	55	53	54	B	65	55	65	0	0	0	Yes
A16PH5c 44/F	165.8	55	53	54	B	65	55	65	0	0	0	Yes
A16PH5c 45/F	168.9	54	53	54	B	65	55	65	0	0	0	Yes
A16PH5c 46/F	172	54	53	54	B	65	55	65	0	0	0	Yes
A16PH5d 1/F	24.3	51	49	50	C	70	60	65	0	0	0	Yes
A16PH5d 2/F	27.4	54	52	53	C	70	60	65	0	0	0	Yes
A16PH5d 3/F	30.6	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5d 4/F	33.8	58	56	57	C	70	60	65	0	0	0	Yes
A16PH5d 5/F	36.9	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 6/F	40	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 7/F	43.2	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 8/F	46.4	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 9/F	49.5	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 10/F	52.6	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 11/F	55.8	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 12/F	59	59	58	59	C	70	60	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
A16PH5d 13/F	62.1	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 14/F	65.2	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 15/F	68.4	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 16/F	71.5	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 17/F	74.7	59	58	59	C	70	60	65	0	0	0	Yes
A16PH5d 18/F	77.8	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 19/F	81	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 20/F	84.2	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 21/F	87.3	59	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 22/F	90.4	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 23/F	93.6	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 24/F	96.8	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 25/F	99.9	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 26/F	103	58	57	58	C	70	60	65	0	0	0	Yes
A16PH5d 27/F	106.2	58	56	57	C	70	60	65	0	0	0	Yes
A16PH5d 28/F	115.3	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5d 29/F	118.5	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5d 30/F	121.6	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5d 31/F	124.8	57	56	57	C	70	60	65	0	0	0	Yes
A16PH5d 32/F	127.9	57	55	56	C	70	60	65	0	0	0	Yes
A16PH5d 33/F	131.1	57	55	56	C	70	60	65	0	0	0	Yes
A16PH5d 34/F	134.2	57	55	56	C	70	60	65	0	0	0	Yes
A16PH5d 35/F	137.4	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5d 36/F	140.5	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5d 37/F	143.7	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5d 38/F	146.8	56	55	56	C	70	60	65	0	0	0	Yes
A16PH5d 39/F	150	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5d 40/F	153.1	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5d 41/F	156.3	56	54	55	C	70	60	65	0	0	0	Yes
A16PH5d 42/F	159.4	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5d 43/F	162.6	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5d 44/F	165.8	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5d 45/F	168.9	55	54	55	C	70	60	65	0	0	0	Yes
A16PH5d 46/F	172	55	53	55	C	70	60	65	0	0	0	Yes
A16PH6 1/F	36	50	49	50	B	65	55	65	0	0	0	Yes
A16PH6 2/F	39.1	51	50	51	B	65	55	65	0	0	0	Yes
A16PH6 3/F	42.3	53	51	52	B	65	55	65	0	0	0	Yes
A16PH6 4/F	45.5	53	52	53	B	65	55	65	0	0	0	Yes
A16PH6 5/F	48.6	53	52	53	B	65	55	65	0	0	0	Yes
A16PH6 6/F	51.8	53	52	53	B	65	55	65	0	0	0	Yes
A16PH6 7/F	54.9	53	52	53	B	65	55	65	0	0	0	Yes
A16PH6 8/F	58	54	52	53	B	65	55	65	0	0	0	Yes
A16PH6 9/F	61.2	54	52	53	B	65	55	65	0	0	0	Yes
A16PH6 10/F	64.3	54	52	53	B	65	55	65	0	0	0	Yes
A16PH6 11/F	67.5	53	52	53	B	65	55	65	0	0	0	Yes
A16PH6 12/F	70.7	53	52	53	B	65	55	65	0	0	0	Yes
A16PH6 13/F	73.8	53	52	53	B	65	55	65	0	0	0	Yes
A16PH6 14/F	76.9	53	52	53	B	65	55	65	0	0	0	Yes
A16PH6 15/F	80.1	53	52	53	B	65	55	65	0	0	0	Yes
A16PH6 16/F	83.2	53	51	52	B	65	55	65	0	0	0	Yes
A16PH6 17/F	86.4	53	51	52	B	65	55	65	0	0	0	Yes
A16PH6 18/F	89.5	53	51	52	B	65	55	65	0	0	0	Yes
A16PH6 19/F	92.7	52	51	52	B	65	55	65	0	0	0	Yes
A16PH6 20/F	95.8	52	51	52	B	65	55	65	0	0	0	Yes
A16PH6 21/F	99	52	51	52	B	65	55	65	0	0	0	Yes
A16PH6 22/F	102.1	52	51	52	B	65	55	65	0	0	0	Yes
A16PH6 23/F	105.3	52	50	51	B	65	55	65	0	0	0	Yes
A16PH6 24/F	108.5	52	50	51	B	65	55	65	0	0	0	Yes
A16PH6 25/F	117.6	51	50	51	B	65	55	65	0	0	0	Yes
A16PH6 26/F	120.8	51	50	51	B	65	55	65	0	0	0	Yes
A16PH6 27/F	123.9	51	50	51	B	65	55	65	0	0	0	Yes
A16PH6 28/F	127	51	49	50	B	65	55	65	0	0	0	Yes
A16PH6 29/F	130.2	51	49	50	B	65	55	65	0	0	0	Yes
A16PH6 30/F	133.3	51	49	50	B	65	55	65	0	0	0	Yes
A16PH6 31/F	136.5	50	49	50	B	65	55	65	0	0	0	Yes
A16PH6 32/F	139.7	50	49	50	B	65	55	65	0	0	0	Yes
A16PH6 33/F	142.8	50	49	50	B	65	55	65	0	0	0	Yes
A16PH6 34/F	145.9	50	49	50	B	65	55	65	0	0	0	Yes
A16PH10 1/F	42.2	51	50	51	B	65	55	65	0	0	0	Yes
A16PH10 2/F	45.55	52	51	52	B	65	55	65	0	0	0	Yes
A16PH10 3/F	48.9	53	51	52	B	65	55	65	0	0	0	Yes
A16PH10 4/F	52.25	53	51	52	B	65	55	65	0	0	0	Yes
A16PH10 5/F	55.6	53	52	52	B	65	55	65	0	0	0	Yes
A16PH10 6/F	58.95	53	52	53	B	65	55	65	0	0	0	Yes
A16PH10 7/F	62.3	53	52	52	B	65	55	65	0	0	0	Yes
A16PH10 8/F	65.65	53	51	52	B	65	55	65	0	0	0	Yes
A16PH10 9/F	69	53	51	52	B	65	55	65	0	0	0	Yes
A16PH10 10/F	72.35	53	51	52	B	65	55	65	0	0	0	Yes
A16PH11 1/F	42.2	50	49	50	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			Noise Criteria			Exceedance			Compliance	
		Leq,30min		Leq, 24hr (dBA)	ASR	Leq,30min		Leq, 24hr (dBA)	Leq,30min			
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
A16PH11 2/F	45.55	51	50	51	B	65	55	65	0	0	0	Yes
A16PH11 3/F	48.9	52	51	52	B	65	55	65	0	0	0	Yes
A16PH11 4/F	52.25	52	51	52	B	65	55	65	0	0	0	Yes
A16PH11 5/F	55.6	52	51	52	B	65	55	65	0	0	0	Yes
A16PH11 6/F	58.95	52	51	52	B	65	55	65	0	0	0	Yes
A16PH11 7/F	62.3	52	51	52	B	65	55	65	0	0	0	Yes
A16PH11 8/F	65.65	52	51	52	B	65	55	65	0	0	0	Yes
A16PH11 9/F	69	52	51	52	B	65	55	65	0	0	0	Yes
A16PH11 10/F	72.35	52	51	52	B	65	55	65	0	0	0	Yes
A16PH12 1/F	42.2	36	36	36	B	65	55	65	0	0	0	Yes
A16PH12 2/F	45.55	38	37	38	B	65	55	65	0	0	0	Yes
A16PH12 3/F	48.9	40	38	39	B	65	55	65	0	0	0	Yes
A16PH12 4/F	52.25	41	40	40	B	65	55	65	0	0	0	Yes
A16PH12 5/F	55.6	42	40	41	B	65	55	65	0	0	0	Yes
A16PH12 6/F	58.95	43	41	42	B	65	55	65	0	0	0	Yes
A16PH12 7/F	62.3	43	42	43	B	65	55	65	0	0	0	Yes
A16PH12 8/F	65.65	44	43	44	B	65	55	65	0	0	0	Yes
A16PH12 9/F	69	45	43	44	B	65	55	65	0	0	0	Yes
A16PH12 10/F	72.35	45	44	45	B	65	55	65	0	0	0	Yes
A16PH13 1/F	42.2	35	34	35	C	70	60	65	0	0	0	Yes
A16PH13 2/F	45.55	37	36	37	C	70	60	65	0	0	0	Yes
A16PH13 3/F	48.9	39	38	39	C	70	60	65	0	0	0	Yes
A16PH13 4/F	52.25	41	39	40	C	70	60	65	0	0	0	Yes
A16PH13 5/F	55.6	42	40	41	C	70	60	65	0	0	0	Yes
A16PH13 6/F	58.95	43	41	42	C	70	60	65	0	0	0	Yes
A16PH13 7/F	62.3	44	42	43	C	70	60	65	0	0	0	Yes
A16PH13 8/F	65.65	44	43	44	C	70	60	65	0	0	0	Yes
A16PH13 9/F	69	45	43	44	C	70	60	65	0	0	0	Yes
A16PH13 10/F	72.35	45	44	45	C	70	60	65	0	0	0	Yes
HSNPS G/F	6	39	-	38	C	70	-	65	0	-	0	Yes
HSNPS 1/F	9.5	39	-	39	C	70	-	65	0	-	0	Yes
HSNPS 2/F	13	39	-	39	C	70	-	65	0	-	0	Yes
HSNPS 3/F	16.5	40	-	39	C	70	-	65	0	-	0	Yes
HSNPS 4/F	20	40	-	39	C	70	-	65	0	-	0	Yes
HSNPS 5/F	23.5	40	-	40	C	70	-	65	0	-	0	Yes
HSNPS 6/F	27	41	-	40	C	70	-	65	0	-	0	Yes
OH1 1/F	28.3	35	34	34	B	65	55	65	0	0	0	Yes
OH1 2/F	31.3	35	34	35	B	65	55	65	0	0	0	Yes
OH1 3/F	34.3	35	34	35	B	65	55	65	0	0	0	Yes
OH1 4/F	37.3	36	35	35	B	65	55	65	0	0	0	Yes
OH1 5/F	40.3	36	35	36	B	65	55	65	0	0	0	Yes
OH1 6/F	43.3	36	35	36	B	65	55	65	0	0	0	Yes
OH1 7/F	46.3	36	35	36	B	65	55	65	0	0	0	Yes
OH1 8/F	49.3	37	36	36	B	65	55	65	0	0	0	Yes
OH1 9/F	52.3	37	36	36	B	65	55	65	0	0	0	Yes
OH1 10/F	55.3	37	36	37	B	65	55	65	0	0	0	Yes
OH1 11/F	58.3	38	36	37	B	65	55	65	0	0	0	Yes
OH1 12/F	61.3	38	37	38	B	65	55	65	0	0	0	Yes
OH1 13/F	64.3	38	37	38	B	65	55	65	0	0	0	Yes
OH1 14/F	67.3	38	37	38	B	65	55	65	0	0	0	Yes
OH1 15/F	70.3	39	38	38	B	65	55	65	0	0	0	Yes
OH1 16/F	73.3	39	38	39	B	65	55	65	0	0	0	Yes
OH1 17/F	76.3	39	38	39	B	65	55	65	0	0	0	Yes
OH1 18/F	79.3	39	38	39	B	65	55	65	0	0	0	Yes
OH1 19/F	82.3	40	38	39	B	65	55	65	0	0	0	Yes
OH1 20/F	85.3	40	38	39	B	65	55	65	0	0	0	Yes
OH1 21/F	88.3	40	39	40	B	65	55	65	0	0	0	Yes
OH1 22/F	91.3	40	39	40	B	65	55	65	0	0	0	Yes
OH1 23/F	94.3	40	39	40	B	65	55	65	0	0	0	Yes
OH1 24/F	97.3	40	39	40	B	65	55	65	0	0	0	Yes
OH1 25/F	100.3	40	39	40	B	65	55	65	0	0	0	Yes
OH1 26/F	103.3	41	39	40	B	65	55	65	0	0	0	Yes
OH1 27/F	106.3	41	39	40	B	65	55	65	0	0	0	Yes
OH1 28/F	109.3	41	39	40	B	65	55	65	0	0	0	Yes
OH1 29/F	112.3	41	39	40	B	65	55	65	0	0	0	Yes
OH1 30/F	115.3	41	40	41	B	65	55	65	0	0	0	Yes
OH1 31/F	118.3	41	40	41	B	65	55	65	0	0	0	Yes
OH1 32/F	121.3	41	40	41	B	65	55	65	0	0	0	Yes
OH1 33/F	124.3	41	40	41	B	65	55	65	0	0	0	Yes
OH1 34/F	127.3	41	40	41	B	65	55	65	0	0	0	Yes
OH1 35/F	130.3	41	40	41	B	65	55	65	0	0	0	Yes
LMO1 1/F	10.4	32	32	32	B	65	55	65	0	0	0	Yes
LMO1 2/F	13.1	32	32	32	B	65	55	65	0	0	0	Yes
LMO1 3/F	15.8	32	32	32	B	65	55	65	0	0	0	Yes
LMO1 4/F	18.5	32	32	32	B	65	55	65	0	0	0	Yes
LMO1 5/F	21.2	33	32	32	B	65	55	65	0	0	0	Yes
LMO1 6/F	23.9	33	32	33	B	65	55	65	0	0	0	Yes
LMO1 7/F	26.6	33	32	33	B	65	55	65	0	0	0	Yes
LMO1 8/F	29.3	33	33	33	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
LMO1 9/F	32	33	33	33	B	65	55	65	0	0	0	Yes
LMO1 10/F	34.7	34	33	33	B	65	55	65	0	0	0	Yes
LMO1 11/F	37.4	34	33	34	B	65	55	65	0	0	0	Yes
LMO1 12/F	40.1	34	33	34	B	65	55	65	0	0	0	Yes
LMO1 13/F	42.8	35	34	34	B	65	55	65	0	0	0	Yes
LMO1 14/F	45.5	35	34	35	B	65	55	65	0	0	0	Yes
LMO1 15/F	48.2	35	34	35	B	65	55	65	0	0	0	Yes
LMO1 16/F	50.9	35	35	35	B	65	55	65	0	0	0	Yes
LMO1 17/F	53.6	36	35	35	B	65	55	65	0	0	0	Yes
LMO1 18/F	56.3	36	35	36	B	65	55	65	0	0	0	Yes
LMO1 19/F	59	36	35	36	B	65	55	65	0	0	0	Yes
LMO1 20/F	61.7	36	35	36	B	65	55	65	0	0	0	Yes
LMO1 21/F	64.4	36	35	36	B	65	55	65	0	0	0	Yes
LMO1 22/F	67.1	37	36	36	B	65	55	65	0	0	0	Yes
LMO1 23/F	69.8	37	36	36	B	65	55	65	0	0	0	Yes
LMO1 24/F	72.5	37	36	36	B	65	55	65	0	0	0	Yes
LMO1 25/F	75.2	37	36	37	B	65	55	65	0	0	0	Yes
LMO1 26/F	77.9	37	36	37	B	65	55	65	0	0	0	Yes
LMO1 27/F	80.6	37	36	37	B	65	55	65	0	0	0	Yes
LMO1 28/F	83.3	37	36	37	B	65	55	65	0	0	0	Yes
LMO1 29/F	86	37	36	37	B	65	55	65	0	0	0	Yes
LMO1 30/F	88.7	37	36	37	B	65	55	65	0	0	0	Yes
LMO1 31/F	91.4	38	36	37	B	65	55	65	0	0	0	Yes
LMO1 32/F	94.1	38	37	37	B	65	55	65	0	0	0	Yes
LMO2 1/F	10.4	33	33	33	B	65	55	65	0	0	0	Yes
LMO2 2/F	13.1	34	33	33	B	65	55	65	0	0	0	Yes
LMO2 3/F	15.8	34	33	34	B	65	55	65	0	0	0	Yes
LMO2 4/F	18.5	34	33	34	B	65	55	65	0	0	0	Yes
LMO2 5/F	21.2	35	34	34	B	65	55	65	0	0	0	Yes
LMO2 6/F	23.9	35	34	35	B	65	55	65	0	0	0	Yes
LMO2 7/F	26.6	35	34	35	B	65	55	65	0	0	0	Yes
LMO2 8/F	29.3	36	35	36	B	65	55	65	0	0	0	Yes
LMO2 9/F	32	36	35	36	B	65	55	65	0	0	0	Yes
LMO2 10/F	34.7	37	36	37	B	65	55	65	0	0	0	Yes
LMO2 11/F	37.4	38	36	37	B	65	55	65	0	0	0	Yes
LMO2 12/F	40.1	38	37	38	B	65	55	65	0	0	0	Yes
LMO2 13/F	42.8	38	37	38	B	65	55	65	0	0	0	Yes
LMO2 14/F	45.5	39	38	39	B	65	55	65	0	0	0	Yes
LMO2 15/F	48.2	40	38	39	B	65	55	65	0	0	0	Yes
LMO2 16/F	50.9	40	39	40	B	65	55	65	0	0	0	Yes
LMO2 17/F	53.6	41	39	40	B	65	55	65	0	0	0	Yes
LMO2 18/F	56.3	41	40	40	B	65	55	65	0	0	0	Yes
LMO2 19/F	59	41	40	41	B	65	55	65	0	0	0	Yes
LMO2 20/F	61.7	41	40	41	B	65	55	65	0	0	0	Yes
LMO2 21/F	64.4	42	40	41	B	65	55	65	0	0	0	Yes
LMO2 22/F	67.1	42	40	41	B	65	55	65	0	0	0	Yes
LMO2 23/F	69.8	42	41	41	B	65	55	65	0	0	0	Yes
LMO2 24/F	72.5	42	41	42	B	65	55	65	0	0	0	Yes
LMO2 25/F	75.2	42	41	42	B	65	55	65	0	0	0	Yes
LMO2 26/F	77.9	42	41	42	B	65	55	65	0	0	0	Yes
LMO2 27/F	80.6	42	41	42	B	65	55	65	0	0	0	Yes
LMO2 28/F	83.3	42	41	42	B	65	55	65	0	0	0	Yes
LMO2 29/F	86	43	41	42	B	65	55	65	0	0	0	Yes
LMO2 30/F	88.7	43	41	42	B	65	55	65	0	0	0	Yes
LMO3 1/F	10.5	36	36	36	B	65	55	65	0	0	0	Yes
LMO3 2/F	13.2	37	36	36	B	65	55	65	0	0	0	Yes
LMO3 3/F	15.9	37	36	37	B	65	55	65	0	0	0	Yes
LMO3 4/F	18.6	37	36	37	B	65	55	65	0	0	0	Yes
LMO3 5/F	21.3	38	37	37	B	65	55	65	0	0	0	Yes
LMO3 6/F	24	38	37	38	B	65	55	65	0	0	0	Yes
LMO3 7/F	26.7	39	38	38	B	65	55	65	0	0	0	Yes
LMO3 8/F	29.4	39	38	39	B	65	55	65	0	0	0	Yes
LMO3 9/F	32.1	40	39	39	B	65	55	65	0	0	0	Yes
LMO3 10/F	34.8	40	39	40	B	65	55	65	0	0	0	Yes
LMO3 11/F	37.5	41	40	40	B	65	55	65	0	0	0	Yes
LMO3 12/F	40.2	41	40	41	B	65	55	65	0	0	0	Yes
LMO3 13/F	42.9	42	40	41	B	65	55	65	0	0	0	Yes
LMO3 14/F	45.6	42	41	42	B	65	55	65	0	0	0	Yes
LMO3 15/F	48.3	43	42	43	B	65	55	65	0	0	0	Yes
LMO3 16/F	51	43	42	43	B	65	55	65	0	0	0	Yes
LMO3 17/F	53.7	44	43	43	B	65	55	65	0	0	0	Yes
LMO3 18/F	56.4	44	43	44	B	65	55	65	0	0	0	Yes
LMO3 19/F	59.1	44	43	44	B	65	55	65	0	0	0	Yes
LMO3 20/F	61.8	45	43	44	B	65	55	65	0	0	0	Yes
LMO3 21/F	64.5	45	44	44	B	65	55	65	0	0	0	Yes
LMO3 22/F	67.2	45	44	45	B	65	55	65	0	0	0	Yes
LMO3 23/F	69.9	45	44	45	B	65	55	65	0	0	0	Yes
LMO3 24/F	72.6	45	44	45	B	65	55	65	0	0	0	Yes
LMO3 25/F	75.3	45	44	45	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
LMO3 26/F	78	46	44	45	B	65	55	65	0	0	0	Yes
LMO3 27/F	80.7	46	44	45	B	65	55	65	0	0	0	Yes
LMO3 28/F	83.4	46	44	45	B	65	55	65	0	0	0	Yes
LMO3 29/F	86.1	46	44	45	B	65	55	65	0	0	0	Yes
LMO3 30/F	88.8	46	44	45	B	65	55	65	0	0	0	Yes
GG1 1/F	10.5	38	36	37	B	65	55	65	0	0	0	Yes
GG1 2/F	13.2	38	37	38	B	65	55	65	0	0	0	Yes
GG1 3/F	15.9	38	37	38	B	65	55	65	0	0	0	Yes
GG1 4/F	18.6	39	37	38	B	65	55	65	0	0	0	Yes
GG1 5/F	21.3	39	38	39	B	65	55	65	0	0	0	Yes
GG1 6/F	24	40	38	39	B	65	55	65	0	0	0	Yes
GG1 7/F	26.7	40	39	40	B	65	55	65	0	0	0	Yes
GG1 8/F	29.4	41	40	40	B	65	55	65	0	0	0	Yes
GG1 9/F	32.1	41	40	41	B	65	55	65	0	0	0	Yes
GG1 10/F	34.8	42	41	42	B	65	55	65	0	0	0	Yes
GG1 11/F	37.5	43	41	42	B	65	55	65	0	0	0	Yes
GG1 12/F	40.2	43	42	43	B	65	55	65	0	0	0	Yes
GG1 13/F	42.9	44	42	43	B	65	55	65	0	0	0	Yes
GG1 14/F	45.6	44	43	44	B	65	55	65	0	0	0	Yes
GG1 15/F	48.3	45	44	45	B	65	55	65	0	0	0	Yes
GG1 16/F	51	46	44	45	B	65	55	65	0	0	0	Yes
GG1 17/F	53.7	46	45	46	B	65	55	65	0	0	0	Yes
GG1 18/F	56.4	46	45	46	B	65	55	65	0	0	0	Yes
GG1 19/F	59.1	47	45	46	B	65	55	65	0	0	0	Yes
GG1 20/F	61.8	47	46	47	B	65	55	65	0	0	0	Yes
GG1 21/F	64.5	47	46	47	B	65	55	65	0	0	0	Yes
GG1 22/F	67.2	47	46	47	B	65	55	65	0	0	0	Yes
GG1 23/F	69.9	47	46	47	B	65	55	65	0	0	0	Yes
GG1 24/F	72.6	48	46	47	B	65	55	65	0	0	0	Yes
GG1 25/F	75.3	48	46	47	B	65	55	65	0	0	0	Yes
GG1 26/F	78	48	46	47	B	65	55	65	0	0	0	Yes
GG1 27/F	80.7	48	46	47	B	65	55	65	0	0	0	Yes
GG1 28/F	83.4	48	47	48	B	65	55	65	0	0	0	Yes
GG2 1/F	10.6	37	36	37	B	65	55	65	0	0	0	Yes
GG2 2/F	13.3	37	36	37	B	65	55	65	0	0	0	Yes
GG2 3/F	16	38	36	37	B	65	55	65	0	0	0	Yes
GG2 4/F	18.7	38	37	38	B	65	55	65	0	0	0	Yes
GG2 5/F	21.4	39	37	38	B	65	55	65	0	0	0	Yes
GG2 6/F	24.1	39	38	38	B	65	55	65	0	0	0	Yes
GG2 7/F	26.8	39	38	39	B	65	55	65	0	0	0	Yes
GG2 8/F	29.5	40	38	39	B	65	55	65	0	0	0	Yes
GG2 9/F	32.2	40	39	40	B	65	55	65	0	0	0	Yes
GG2 10/F	34.9	41	39	40	B	65	55	65	0	0	0	Yes
GG2 11/F	37.6	41	40	41	B	65	55	65	0	0	0	Yes
GG2 12/F	40.3	42	40	41	B	65	55	65	0	0	0	Yes
GG2 13/F	43	42	41	42	B	65	55	65	0	0	0	Yes
GG2 14/F	45.7	43	41	42	B	65	55	65	0	0	0	Yes
GG2 15/F	48.4	43	42	43	B	65	55	65	0	0	0	Yes
GG2 16/F	51.1	44	42	43	B	65	55	65	0	0	0	Yes
GG2 17/F	53.8	44	43	44	B	65	55	65	0	0	0	Yes
GG2 18/F	56.5	44	43	44	B	65	55	65	0	0	0	Yes
GG2 19/F	59.2	45	43	44	B	65	55	65	0	0	0	Yes
GG2 20/F	61.9	45	44	45	B	65	55	65	0	0	0	Yes
GG2 21/F	64.6	45	44	45	B	65	55	65	0	0	0	Yes
GG2 22/F	67.3	46	44	45	B	65	55	65	0	0	0	Yes
GG2 23/F	70	46	45	46	B	65	55	65	0	0	0	Yes
GG2 24/F	72.7	46	45	46	B	65	55	65	0	0	0	Yes
GG2 25/F	75.4	46	45	46	B	65	55	65	0	0	0	Yes
GG2 26/F	78.1	46	45	46	B	65	55	65	0	0	0	Yes
GG2 27/F	80.8	47	45	46	B	65	55	65	0	0	0	Yes
GG2 28/F	83.5	47	45	46	B	65	55	65	0	0	0	Yes
STM1 1/F	31.1	40	39	40	B	65	55	65	0	0	0	Yes
STM1 2/F	33.8	41	39	40	B	65	55	65	0	0	0	Yes
STM1 3/F	36.5	41	40	41	B	65	55	65	0	0	0	Yes
STM1 4/F	39.2	42	40	41	B	65	55	65	0	0	0	Yes
STM1 5/F	41.9	42	41	42	B	65	55	65	0	0	0	Yes
STM1 6/F	44.6	43	41	42	B	65	55	65	0	0	0	Yes
STM1 7/F	47.3	43	42	43	B	65	55	65	0	0	0	Yes
STM1 8/F	50	43	42	43	B	65	55	65	0	0	0	Yes
STM1 9/F	52.7	44	42	43	B	65	55	65	0	0	0	Yes
STM1 10/F	55.4	44	42	43	B	65	55	65	0	0	0	Yes
STM1 11/F	58.1	44	43	44	B	65	55	65	0	0	0	Yes
STM1 12/F	60.8	45	43	44	B	65	55	65	0	0	0	Yes
STM1 13/F	63.5	45	44	45	B	65	55	65	0	0	0	Yes
STM1 14/F	66.2	46	44	45	B	65	55	65	0	0	0	Yes
STM1 15/F	68.9	46	45	46	B	65	55	65	0	0	0	Yes
STM1 16/F	71.6	46	45	46	B	65	55	65	0	0	0	Yes
STM1 17/F	74.3	47	45	46	B	65	55	65	0	0	0	Yes
STM1 18/F	77	47	45	46	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
STM1 19/F	79.7	47	45	46	B	65	55	65	0	0	0	Yes
STM1 20/F	82.4	47	46	47	B	65	55	65	0	0	0	Yes
STM1 21/F	85.1	47	46	47	B	65	55	65	0	0	0	Yes
STM1 22/F	87.8	47	46	47	B	65	55	65	0	0	0	Yes
STM1 23/F	90.5	47	46	47	B	65	55	65	0	0	0	Yes
STM1 24/F	93.2	47	46	47	B	65	55	65	0	0	0	Yes
STM1 25/F	95.9	48	46	47	B	65	55	65	0	0	0	Yes
STM1 26/F	98.6	48	46	47	B	65	55	65	0	0	0	Yes
STM1 27/F	101.3	48	46	47	B	65	55	65	0	0	0	Yes
STM1 28/F	104	48	46	47	B	65	55	65	0	0	0	Yes
STM1 29/F	106.7	48	46	47	B	65	55	65	0	0	0	Yes
STM1 30/F	109.4	48	46	47	B	65	55	65	0	0	0	Yes
STM1 31/F	112.1	48	46	47	B	65	55	65	0	0	0	Yes
STM1 32/F	114.8	48	46	47	B	65	55	65	0	0	0	Yes
STM1 33/F	117.5	48	47	48	B	65	55	65	0	0	0	Yes
STM1 34/F	120.2	48	47	48	B	65	55	65	0	0	0	Yes
STM1 35/F	122.9	48	47	48	B	65	55	65	0	0	0	Yes
STM1 36/F	125.6	48	47	48	B	65	55	65	0	0	0	Yes
STM1 37/F	128.3	48	47	48	B	65	55	65	0	0	0	Yes
STM1 38/F	131	48	47	48	B	65	55	65	0	0	0	Yes
STM1 39/F	133.7	48	46	48	B	65	55	65	0	0	0	Yes
STM1 40/F	136.4	48	46	48	B	65	55	65	0	0	0	Yes
STM1 41/F	139.1	48	46	47	B	65	55	65	0	0	0	Yes
STM1 42/F	141.8	48	46	47	B	65	55	65	0	0	0	Yes
STM1 43/F	144.5	48	46	47	B	65	55	65	0	0	0	Yes
STM1 44/F	147.2	48	46	47	B	65	55	65	0	0	0	Yes
STM2 1/F	31.1	39	37	38	B	65	55	65	0	0	0	Yes
STM2 2/F	33.8	39	38	39	B	65	55	65	0	0	0	Yes
STM2 3/F	36.5	39	38	39	B	65	55	65	0	0	0	Yes
STM2 4/F	39.2	40	38	39	B	65	55	65	0	0	0	Yes
STM2 5/F	41.9	40	39	40	B	65	55	65	0	0	0	Yes
STM2 6/F	44.6	41	39	40	B	65	55	65	0	0	0	Yes
STM2 7/F	47.3	41	40	41	B	65	55	65	0	0	0	Yes
STM2 8/F	50	41	40	41	B	65	55	65	0	0	0	Yes
STM2 9/F	52.7	42	40	41	B	65	55	65	0	0	0	Yes
STM2 10/F	55.4	42	40	41	B	65	55	65	0	0	0	Yes
STM2 11/F	58.1	42	41	42	B	65	55	65	0	0	0	Yes
STM2 12/F	60.8	43	41	42	B	65	55	65	0	0	0	Yes
STM2 13/F	63.5	43	42	43	B	65	55	65	0	0	0	Yes
STM2 14/F	66.2	44	42	43	B	65	55	65	0	0	0	Yes
STM2 15/F	68.9	44	42	43	B	65	55	65	0	0	0	Yes
STM2 16/F	71.6	44	43	44	B	65	55	65	0	0	0	Yes
STM2 17/F	74.3	44	43	44	B	65	55	65	0	0	0	Yes
STM2 18/F	77	45	43	44	B	65	55	65	0	0	0	Yes
STM2 19/F	79.7	45	43	44	B	65	55	65	0	0	0	Yes
STM2 20/F	82.4	45	43	44	B	65	55	65	0	0	0	Yes
STM2 21/F	85.1	45	44	45	B	65	55	65	0	0	0	Yes
STM2 22/F	87.8	45	44	45	B	65	55	65	0	0	0	Yes
STM2 23/F	90.5	45	44	45	B	65	55	65	0	0	0	Yes
STM2 24/F	93.2	45	44	45	B	65	55	65	0	0	0	Yes
STM2 25/F	95.9	45	44	45	B	65	55	65	0	0	0	Yes
STM2 26/F	98.6	45	44	45	B	65	55	65	0	0	0	Yes
STM2 27/F	101.3	46	44	45	B	65	55	65	0	0	0	Yes
STM2 28/F	104	46	44	45	B	65	55	65	0	0	0	Yes
STM2 29/F	106.7	46	44	45	B	65	55	65	0	0	0	Yes
STM2 30/F	109.4	46	44	45	B	65	55	65	0	0	0	Yes
STM2 31/F	112.1	46	44	45	B	65	55	65	0	0	0	Yes
STM2 32/F	114.8	46	44	45	B	65	55	65	0	0	0	Yes
STM2 33/F	117.5	46	44	45	B	65	55	65	0	0	0	Yes
STM2 34/F	120.2	46	44	45	B	65	55	65	0	0	0	Yes
STM2 35/F	122.9	46	44	45	B	65	55	65	0	0	0	Yes
STM2 36/F	125.6	46	44	45	B	65	55	65	0	0	0	Yes
STM2 37/F	128.3	46	44	45	B	65	55	65	0	0	0	Yes
STM2 38/F	131	46	44	45	B	65	55	65	0	0	0	Yes
STM2 39/F	133.7	46	44	45	B	65	55	65	0	0	0	Yes
STM2 40/F	136.4	46	44	45	B	65	55	65	0	0	0	Yes
STM2 41/F	139.1	46	44	45	B	65	55	65	0	0	0	Yes
STM2 42/F	141.8	46	44	45	B	65	55	65	0	0	0	Yes
STM2 43/F	144.5	46	44	45	B	65	55	65	0	0	0	Yes
STM2 44/F	147.2	46	44	45	B	65	55	65	0	0	0	Yes
RB 1/F	23.8	32	30	31	B	65	55	65	0	0	0	Yes
RB 2/F	26.95	32	31	32	B	65	55	65	0	0	0	Yes
RB 3/F	30.1	32	31	32	B	65	55	65	0	0	0	Yes
RB 4/F	33.25	32	31	32	B	65	55	65	0	0	0	Yes
RB 5/F	36.4	33	31	32	B	65	55	65	0	0	0	Yes
RB 6/F	39.55	33	32	33	B	65	55	65	0	0	0	Yes
RB 7/F	42.7	33	32	33	B	65	55	65	0	0	0	Yes
RB 8/F	45.85	33	32	33	B	65	55	65	0	0	0	Yes
RB 9/F	49	34	32	33	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			Noise Criteria				Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)	ASR	Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
RB 10/F	52.15	34	33	34	B	65	55	65	0	0	0	Yes
RB 11/F	55.3	34	33	34	B	65	55	65	0	0	0	Yes
RB 12/F	58.45	35	33	34	B	65	55	65	0	0	0	Yes
RB 13/F	61.6	35	34	35	B	65	55	65	0	0	0	Yes
RB 14/F	64.75	35	34	35	B	65	55	65	0	0	0	Yes
RB 15/F	67.9	36	34	35	B	65	55	65	0	0	0	Yes
RB 16/F	71.05	36	34	35	B	65	55	65	0	0	0	Yes
RB 17/F	74.2	36	35	36	B	65	55	65	0	0	0	Yes
RB 18/F	77.35	36	35	36	B	65	55	65	0	0	0	Yes
RB 19/F	80.5	36	35	36	B	65	55	65	0	0	0	Yes
RB 20/F	83.65	36	35	36	B	65	55	65	0	0	0	Yes
RB 21/F	86.8	37	35	36	B	65	55	65	0	0	0	Yes
RB 22/F	89.95	37	36	37	B	65	55	65	0	0	0	Yes
WF1 1/F	10.5	46	45	46	B	65	55	65	0	0	0	Yes
WF1 2/F	13.1	47	45	46	B	65	55	65	0	0	0	Yes
WF1 3/F	15.7	47	46	47	B	65	55	65	0	0	0	Yes
WF1 4/F	18.3	48	46	47	B	65	55	65	0	0	0	Yes
WF1 5/F	20.9	48	47	48	B	65	55	65	0	0	0	Yes
WF1 6/F	23.5	49	48	49	B	65	55	65	0	0	0	Yes
WF1 7/F	26.1	50	49	50	B	65	55	65	0	0	0	Yes
WF1 8/F	28.7	51	49	50	B	65	55	65	0	0	0	Yes
WF1 9/F	31.3	52	50	51	B	65	55	65	0	0	0	Yes
WF1 10/F	33.9	52	51	52	B	65	55	65	0	0	0	Yes
WF1 11/F	36.5	53	52	53	B	65	55	65	0	0	0	Yes
WF1 12/F	39.1	54	53	54	B	65	55	65	0	0	0	Yes
WF1 13/F	41.7	55	53	54	B	65	55	65	0	0	0	Yes
WF1 14/F	44.3	55	54	55	B	65	55	65	0	0	0	Yes
WF1 15/F	46.9	56	54	55	B	65	55	65	0	0	0	Yes
WF1 16/F	49.5	56	55	56	B	65	55	65	0	0	0	Yes
WF1 17/F	52.1	56	55	56	B	65	55	65	0	0	0	Yes
WF1 18/F	54.7	56	55	56	B	65	55	65	0	0	0	Yes
WF1 19/F	57.3	57	55	56	B	65	55	65	0	0	0	Yes
WF1 20/F	59.9	57	55	56	B	65	55	65	0	0	0	Yes
WF2 1/F	10.5	46	44	45	B	65	55	65	0	0	0	Yes
WF2 2/F	13.1	46	45	46	B	65	55	65	0	0	0	Yes
WF2 3/F	15.7	47	45	46	B	65	55	65	0	0	0	Yes
WF2 4/F	18.3	47	46	47	B	65	55	65	0	0	0	Yes
WF2 5/F	20.9	48	46	47	B	65	55	65	0	0	0	Yes
WF2 6/F	23.5	48	47	48	B	65	55	65	0	0	0	Yes
WF2 7/F	26.1	49	48	49	B	65	55	65	0	0	0	Yes
WF2 8/F	28.7	50	49	50	B	65	55	65	0	0	0	Yes
WF2 9/F	31.3	51	50	51	B	65	55	65	0	0	0	Yes
WF2 10/F	33.9	52	50	51	B	65	55	65	0	0	0	Yes
WF2 11/F	36.5	53	51	52	B	65	55	65	0	0	0	Yes
WF2 12/F	39.1	54	52	53	B	65	55	65	0	0	0	Yes
WF2 13/F	41.7	54	53	54	B	65	55	65	0	0	0	Yes
WF2 14/F	44.3	55	53	54	B	65	55	65	0	0	0	Yes
WF2 15/F	46.9	55	54	55	B	65	55	65	0	0	0	Yes
WF2 16/F	49.5	56	54	55	B	65	55	65	0	0	0	Yes
WF2 17/F	52.1	56	54	55	B	65	55	65	0	0	0	Yes
WF2 18/F	54.7	56	55	56	B	65	55	65	0	0	0	Yes
WF2 19/F	57.3	56	55	56	B	65	55	65	0	0	0	Yes
WF2 20/F	59.9	56	55	56	B	65	55	65	0	0	0	Yes
WT0b G/F	6.6	49	-	49	B	65	-	65	0	-	0	Yes
WT1 G/F	9.3	43	42	43	B	65	55	65	0	0	0	Yes
WT1 1/F	12	44	42	43	B	65	55	65	0	0	0	Yes
WT1 2/F	14.7	44	43	44	B	65	55	65	0	0	0	Yes
WT1 3/F	17.4	45	44	44	B	65	55	65	0	0	0	Yes
WT1 4/F	20.1	46	44	45	B	65	55	65	0	0	0	Yes
WT1 5/F	22.8	46	45	46	B	65	55	65	0	0	0	Yes
WT1 6/F	25.5	47	46	47	B	65	55	65	0	0	0	Yes
WT1 7/F	28.2	48	47	48	B	65	55	65	0	0	0	Yes
WT1 8/F	30.9	49	48	49	B	65	55	65	0	0	0	Yes
WT1 9/F	33.6	50	49	50	B	65	55	65	0	0	0	Yes
WT1 10/F	36.3	51	49	50	B	65	55	65	0	0	0	Yes
WT1 11/F	39	51	50	51	B	65	55	65	0	0	0	Yes
WT1 12/F	41.7	52	51	52	B	65	55	65	0	0	0	Yes
WT1 13/F	44.4	52	51	52	B	65	55	65	0	0	0	Yes
WT1 14/F	47.1	53	51	52	B	65	55	65	0	0	0	Yes
WT1 15/F	49.8	53	52	53	B	65	55	65	0	0	0	Yes
WT1 16/F	52.5	54	52	53	B	65	55	65	0	0	0	Yes
WT1 17/F	55.2	54	52	53	B	65	55	65	0	0	0	Yes
WT1 18/F	57.9	54	53	54	B	65	55	65	0	0	0	Yes
WT1 19/F	60.6	54	53	54	B	65	55	65	0	0	0	Yes
WT1 20/F	63.3	54	53	54	B	65	55	65	0	0	0	Yes
WT1 21/F	66	55	53	54	B	65	55	65	0	0	0	Yes
WT1 22/F	68.7	55	53	54	B	65	55	65	0	0	0	Yes
WT2 1/F	9.3	50	49	50	B	65	55	65	0	0	0	Yes
WT2 2/F	12	50	50	50	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			Noise Criteria				Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)	ASR	Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
WT2 3/F	14.7	50	50	50	B	65	55	65	0	0	0	Yes
WT2 4/F	17.4	51	50	51	B	65	55	65	0	0	0	Yes
WT2 5/F	20.1	51	51	51	B	65	55	65	0	0	0	Yes
WT2 6/F	22.8	52	51	52	B	65	55	65	0	0	0	Yes
WT2 7/F	25.5	52	52	52	B	65	55	65	0	0	0	Yes
WT2 8/F	28.2	53	52	53	B	65	55	65	0	0	0	Yes
WT2 9/F	30.9	54	53	53	B	65	55	65	0	0	0	Yes
WT2 10/F	33.6	54	53	54	B	65	55	65	0	0	0	Yes
WT2 11/F	36.3	55	54	54	B	65	55	65	0	0	0	Yes
WT2 12/F	39	55	54	55	B	65	55	65	0	0	0	Yes
WT2 13/F	41.7	55	54	55	B	65	55	65	0	0	0	Yes
WT2 14/F	44.4	56	55	55	B	65	55	65	0	0	0	Yes
WT2 15/F	47.1	56	55	56	B	65	55	65	0	0	0	Yes
WT2 16/F	49.8	56	55	56	B	65	55	65	0	0	0	Yes
WT2 17/F	52.5	56	55	56	B	65	55	65	0	0	0	Yes
WT2 18/F	55.2	57	55	56	B	65	55	65	0	0	0	Yes
WT2 19/F	57.9	57	55	56	B	65	55	65	0	0	0	Yes
WT2 20/F	60.6	57	55	56	B	65	55	65	0	0	0	Yes
WHPQ1 1/F	18.9	51	50	51	B	65	55	65	0	0	0	Yes
WHPQ1 2/F	21.8	52	51	51	B	65	55	65	0	0	0	Yes
WHPQ1 3/F	24.7	52	52	52	B	65	55	65	0	0	0	Yes
WHPQ1 4/F	27.6	52	52	52	B	65	55	65	0	0	0	Yes
WHPQ1 5/F	30.5	53	52	53	B	65	55	65	0	0	0	Yes
WHPQ1 6/F	33.4	53	53	53	B	65	55	65	0	0	0	Yes
WHPQ1 7/F	36.3	54	53	53	B	65	55	65	0	0	0	Yes
WHPQ1 8/F	39.2	54	53	54	B	65	55	65	0	0	0	Yes
WHPQ1 9/F	42.1	54	54	54	B	65	55	65	0	0	0	Yes
WHPQ1 10/F	45	55	54	54	B	65	55	65	0	0	0	Yes
WHPQ1 11/F	47.9	55	54	54	B	65	55	65	0	0	0	Yes
WHPQ1 12/F	50.8	55	54	55	B	65	55	65	0	0	0	Yes
WHPQ1 13/F	53.7	55	54	55	B	65	55	65	0	0	0	Yes
WHPQ1 14/F	56.6	56	55	55	B	65	55	65	0	0	0	Yes
WHPQ1 15/F	59.5	56	55	55	B	65	55	65	0	0	0	Yes
WHPQ1 16/F	62.4	56	55	55	B	65	55	65	0	0	0	Yes
WHPQ1 17/F	65.3	56	55	56	B	65	55	65	0	0	0	Yes
WHPQ1 18/F	68.2	56	55	56	B	65	55	65	0	0	0	Yes
WHPQ1 19/F	71.1	56	55	56	B	65	55	65	0	0	0	Yes
WHPQ1 20/F	74	56	55	56	B	65	55	65	0	0	0	Yes
WHPQ1 21/F	76.9	56	55	55	B	65	55	65	0	0	0	Yes
WHPQ2 1/F	18.9	48	47	48	B	65	55	65	0	0	0	Yes
WHPQ2 2/F	21.8	49	48	49	B	65	55	65	0	0	0	Yes
WHPQ2 3/F	24.7	50	49	50	B	65	55	65	0	0	0	Yes
WHPQ2 4/F	27.6	51	50	51	B	65	55	65	0	0	0	Yes
WHPQ2 5/F	30.5	52	51	52	B	65	55	65	0	0	0	Yes
WHPQ2 6/F	33.4	53	52	53	B	65	55	65	0	0	0	Yes
WHPQ2 7/F	36.3	54	53	53	B	65	55	65	0	0	0	Yes
WHPQ2 8/F	39.2	54	53	54	B	65	55	65	0	0	0	Yes
WHPQ2 9/F	42.1	55	54	54	B	65	55	65	0	0	0	Yes
WHPQ2 10/F	45	55	54	55	B	65	55	65	0	0	0	Yes
WHPQ2 11/F	47.9	56	54	55	B	65	55	65	0	0	0	Yes
WHPQ2 12/F	50.8	56	55	55	B	65	55	65	0	0	0	Yes
WHPQ2 13/F	53.7	56	55	56	B	65	55	65	0	0	0	Yes
WHPQ2 14/F	56.6	56	55	56	B	65	55	65	0	0	0	Yes
WHPQ2 15/F	59.5	57	55	56	B	65	55	65	0	0	0	Yes
WHPQ2 16/F	62.4	57	55	56	B	65	55	65	0	0	0	Yes
WHPQ2 17/F	65.3	57	55	56	B	65	55	65	0	0	0	Yes
WHPQ2 18/F	68.2	57	56	56	B	65	55	65	0	0.5	0	No
WHPQ2 19/F	71.1	57	56	57	B	65	55	65	0	0.5	0	No
WHPQ2 20/F	74	57	56	57	B	65	55	65	0	0.5	0	No
WHPQ2 21/F	76.9	57	56	57	B	65	55	65	0	0.5	0	No
LCCS1 G/F	6.4	53	-	53	B	65	-	65	0	-	0	Yes
LCCS1 1/F	9.9	54	-	54	B	65	-	65	0	-	0	Yes
LCCS1 2/F	13.4	54	-	54	B	65	-	65	0	-	0	Yes
LCCS1 3/F	16.9	55	-	55	B	65	-	65	0	-	0	Yes
LCCS1 4/F	20.4	56	-	56	B	65	-	65	0	-	0	Yes
LCCS1 5/F	23.9	56	-	56	B	65	-	65	0	-	0	Yes
LCCS1 6/F	27.4	56	-	56	B	65	-	65	0	-	0	Yes
LCCS2 G/F	6.4	54	-	54	B	65	-	65	0	-	0	Yes
LCCS2 1/F	9.9	56	-	56	B	65	-	65	0	-	0	Yes
NH1 1/F	6.4	51	51	51	B	65	55	65	0	0	0	Yes
NH1 2/F	9.1	52	52	52	B	65	55	65	0	0	0	Yes
NH1 3/F	11.8	51	51	51	B	65	55	65	0	0	0	Yes
NH1 4/F	14.5	51	51	51	B	65	55	65	0	0	0	Yes
NH1 5/F	17.2	51	51	51	B	65	55	65	0	0	0	Yes
NH1 6/F	19.9	52	52	52	B	65	55	65	0	0	0	Yes
NH1 7/F	22.6	53	53	53	B	65	55	65	0	0	0	Yes
NH1 8/F	25.3	53	53	53	B	65	55	65	0	0	0	Yes
NH1 9/F	28	53	53	53	B	65	55	65	0	0	0	Yes
NH1 10/F	30.7	50	50	50	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			Noise Criteria			Exceedance			Compliance	
		Leq,30min		Leq, 24hr (dBA)	ASR	Leq,30min		Leq, 24hr (dBA)	Leq,30min			
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
NH1 11/F	33.4	51	50	50	B	65	55	65	0	0	0	Yes
NH1 12/F	36.1	51	51	51	B	65	55	65	0	0	0	Yes
NH1 13/F	38.8	51	51	51	B	65	55	65	0	0	0	Yes
NH1 14/F	41.5	51	51	51	B	65	55	65	0	0	0	Yes
NH1 15/F	44.2	51	51	51	B	65	55	65	0	0	0	Yes
NH1 16/F	46.9	52	52	52	B	65	55	65	0	0	0	Yes
NH1 17/F	49.6	52	52	52	B	65	55	65	0	0	0	Yes
NH1 18/F	52.3	52	52	52	B	65	55	65	0	0	0	Yes
NH1 19/F	55	52	51	52	B	65	55	65	0	0	0	Yes
NH1 20/F	57.7	51	51	51	B	65	55	65	0	0	0	Yes
NH1 21/F	60.4	51	51	51	B	65	55	65	0	0	0	Yes
NH1 22/F	63.1	51	51	51	B	65	55	65	0	0	0	Yes
NH1 23/F	65.8	51	51	51	B	65	55	65	0	0	0	Yes
NH1 24/F	68.5	51	51	51	B	65	55	65	0	0	0	Yes
NH1 25/F	71.2	51	51	51	B	65	55	65	0	0	0	Yes
NH1 26/F	73.9	51	51	51	B	65	55	65	0	0	0	Yes
NH1 27/F	76.6	51	51	51	B	65	55	65	0	0	0	Yes
NH1 28/F	79.3	51	51	51	B	65	55	65	0	0	0	Yes
NH1 29/F	82	51	50	51	B	65	55	65	0	0	0	Yes
NH1 30/F	84.7	51	50	50	B	65	55	65	0	0	0	Yes
NH1 31/F	87.4	50	50	50	B	65	55	65	0	0	0	Yes
NH1 32/F	90.1	50	50	50	B	65	55	65	0	0	0	Yes
NH1 33/F	92.8	50	50	50	B	65	55	65	0	0	0	Yes
NH1 34/F	95.5	50	50	50	B	65	55	65	0	0	0	Yes
NH1 35/F	98.2	50	50	50	B	65	55	65	0	0	0	Yes
NH1 36/F	100.9	50	50	50	B	65	55	65	0	0	0	Yes
NH1 37/F	103.6	50	50	50	B	65	55	65	0	0	0	Yes
SHDC1 G/F	7.7	54	-	54	B	65	-	65	0	-	0	Yes
SHDC1 1/F	11.2	54	-	54	B	65	-	65	0	-	0	Yes
SHDC1 2/F	14.7	55	-	55	B	65	-	65	0	-	0	Yes
SHDC1 3/F	18.2	55	-	55	B	65	-	65	0	-	0	Yes
SHDC1 4/F	21.7	57	-	57	B	65	-	65	0	-	0	Yes
SHDC1 5/F	25.2	57	-	57	B	65	-	65	0	-	0	Yes
TCC G/F	7.8	56	-	56	B	65	-	65	0	-	0	Yes
TCC 1/F	11.1	57	-	57	B	65	-	65	0	-	0	Yes
TCC 2/F	14.4	57	-	57	B	65	-	65	0	-	0	Yes
TCC 3/F	17.7	57	-	57	B	65	-	65	0	-	0	Yes
TCC 4/F	21	59	-	59	B	65	-	65	0	-	0	Yes
TCC 5/F	24.3	59	-	59	B	65	-	65	0	-	0	Yes
TCC 6/F	27.6	59	-	59	B	65	-	65	0	-	0	Yes
WK1 1/F	10.8	47	47	47	B	65	55	65	0	0	0	Yes
WK1 2/F	13.4	47	47	47	B	65	55	65	0	0	0	Yes
WK1 3/F	16	48	47	48	B	65	55	65	0	0	0	Yes
WK1 4/F	18.6	48	48	48	B	65	55	65	0	0	0	Yes
WK1 5/F	21.2	49	49	49	B	65	55	65	0	0	0	Yes
WK1 6/F	23.8	49	49	49	B	65	55	65	0	0	0	Yes
WK1 7/F	26.4	50	49	50	B	65	55	65	0	0	0	Yes
WK1 8/F	29	50	50	50	B	65	55	65	0	0	0	Yes
WK1 9/F	31.6	50	50	50	B	65	55	65	0	0	0	Yes
WK1 10/F	34.2	51	50	51	B	65	55	65	0	0	0	Yes
WK1 11/F	36.8	52	51	52	B	65	55	65	0	0	0	Yes
WK1 12/F	39.4	52	52	52	B	65	55	65	0	0	0	Yes
WK1 13/F	42	53	52	53	B	65	55	65	0	0	0	Yes
WK1 14/F	44.6	53	53	53	B	65	55	65	0	0	0	Yes
WK1 15/F	47.2	53	53	53	B	65	55	65	0	0	0	Yes
WK1 16/F	49.8	53	53	53	B	65	55	65	0	0	0	Yes
WK1 17/F	52.4	53	53	53	B	65	55	65	0	0	0	Yes
WK1 18/F	55	53	53	53	B	65	55	65	0	0	0	Yes
WK1 19/F	57.6	53	52	53	B	65	55	65	0	0	0	Yes
WK1 20/F	60.2	53	52	52	B	65	55	65	0	0	0	Yes
WK1 21/F	62.8	52	52	52	B	65	55	65	0	0	0	Yes
WK1 22/F	65.4	52	52	52	B	65	55	65	0	0	0	Yes
WK1 23/F	68	52	52	52	B	65	55	65	0	0	0	Yes
WK2 1/F	10.8	50	49	50	B	65	55	65	0	0	0	Yes
WK2 2/F	13.4	50	50	50	B	65	55	65	0	0	0	Yes
WK2 3/F	16	50	50	50	B	65	55	65	0	0	0	Yes
WK2 4/F	18.6	51	51	51	B	65	55	65	0	0	0	Yes
WK2 5/F	21.2	51	51	51	B	65	55	65	0	0	0	Yes
WK2 6/F	23.8	52	52	52	B	65	55	65	0	0	0	Yes
WK2 7/F	26.4	52	52	52	B	65	55	65	0	0	0	Yes
WK2 8/F	29	52	52	52	B	65	55	65	0	0	0	Yes
WK2 9/F	31.6	53	52	53	B	65	55	65	0	0	0	Yes
WK2 10/F	34.2	50	50	50	B	65	55	65	0	0	0	Yes
WK2 11/F	36.8	50	50	50	B	65	55	65	0	0	0	Yes
WK2 12/F	39.4	51	51	51	B	65	55	65	0	0	0	Yes
WK2 13/F	42	51	51	51	B	65	55	65	0	0	0	Yes
WK2 14/F	44.6	52	52	52	B	65	55	65	0	0	0	Yes
WK2 15/F	47.2	52	52	52	B	65	55	65	0	0	0	Yes
WK2 16/F	49.8	52	52	52	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
WK2 17/F	52.4	52	52	52	B	65	55	65	0	0	0	Yes
WK2 18/F	55	52	52	52	B	65	55	65	0	0	0	Yes
WK2 19/F	57.6	52	52	52	B	65	55	65	0	0	0	Yes
WK2 20/F	60.2	51	51	51	B	65	55	65	0	0	0	Yes
WK2 21/F	62.8	51	51	51	B	65	55	65	0	0	0	Yes
WK2 22/F	65.4	51	51	51	B	65	55	65	0	0	0	Yes
WK2 23/F	68	51	51	51	B	65	55	65	0	0	0	Yes
WB0 G/F	8	48	-	48	B	65	-	65	0	-	-	Yes
WB1 1/F	10.7	49	49	49	B	65	55	65	0	0	0	Yes
WB1 2/F	13.4	49	49	49	B	65	55	65	0	0	0	Yes
WB1 3/F	16.1	49	49	49	B	65	55	65	0	0	0	Yes
WB1 4/F	18.8	50	50	50	B	65	55	65	0	0	0	Yes
WB1 5/F	21.5	51	51	51	B	65	55	65	0	0	0	Yes
WB1 6/F	24.2	51	51	51	B	65	55	65	0	0	0	Yes
WB1 7/F	26.9	51	51	51	B	65	55	65	0	0	0	Yes
WB1 8/F	29.6	51	51	51	B	65	55	65	0	0	0	Yes
WB1 9/F	32.3	49	49	49	B	65	55	65	0	0	0	Yes
WB1 10/F	35	49	49	49	B	65	55	65	0	0	0	Yes
WB1 11/F	37.7	50	50	50	B	65	55	65	0	0	0	Yes
WB1 12/F	40.4	50	50	50	B	65	55	65	0	0	0	Yes
WB1 13/F	43.1	51	50	50	B	65	55	65	0	0	0	Yes
WB1 14/F	45.8	51	50	50	B	65	55	65	0	0	0	Yes
WB1 15/F	48.5	51	50	50	B	65	55	65	0	0	0	Yes
WB1 16/F	51.2	50	50	50	B	65	55	65	0	0	0	Yes
WB1 17/F	53.9	50	50	50	B	65	55	65	0	0	0	Yes
WB1 18/F	56.6	50	50	50	B	65	55	65	0	0	0	Yes
WB1 19/F	59.3	50	50	50	B	65	55	65	0	0	0	Yes
WB1 20/F	62	50	50	50	B	65	55	65	0	0	0	Yes
WB1 21/F	64.7	50	50	50	B	65	55	65	0	0	0	Yes
WB1 22/F	67.4	50	50	50	B	65	55	65	0	0	0	Yes
WB1 23/F	70.1	50	50	50	B	65	55	65	0	0	0	Yes
WB2 1/F	10.7	48	48	48	B	65	55	65	0	0	0	Yes
WB2 2/F	13.4	48	48	48	B	65	55	65	0	0	0	Yes
WB2 3/F	16.1	49	49	49	B	65	55	65	0	0	0	Yes
WB2 4/F	18.8	49	49	49	B	65	55	65	0	0	0	Yes
WB2 5/F	21.5	50	50	50	B	65	55	65	0	0	0	Yes
WB2 6/F	24.2	50	50	50	B	65	55	65	0	0	0	Yes
WB2 7/F	26.9	51	51	51	B	65	55	65	0	0	0	Yes
WB2 8/F	29.6	51	51	51	B	65	55	65	0	0	0	Yes
WB2 9/F	32.3	51	51	51	B	65	55	65	0	0	0	Yes
WB2 10/F	35	51	51	51	B	65	55	65	0	0	0	Yes
WB2 11/F	37.7	51	50	51	B	65	55	65	0	0	0	Yes
WB2 12/F	40.4	50	50	50	B	65	55	65	0	0	0	Yes
WB2 13/F	43.1	50	50	50	B	65	55	65	0	0	0	Yes
WB2 14/F	45.8	50	50	50	B	65	55	65	0	0	0	Yes
WB2 15/F	48.5	50	50	50	B	65	55	65	0	0	0	Yes
WB2 16/F	51.2	50	50	50	B	65	55	65	0	0	0	Yes
WB2 17/F	53.9	50	50	50	B	65	55	65	0	0	0	Yes
WB2 18/F	56.6	50	50	50	B	65	55	65	0	0	0	Yes
WB2 19/F	59.3	50	50	50	B	65	55	65	0	0	0	Yes
WB2 20/F	62	50	50	50	B	65	55	65	0	0	0	Yes
RG1 1/F	21	41	41	41	B	65	55	65	0	0	0	Yes
RG1 2/F	23.8	42	42	42	B	65	55	65	0	0	0	Yes
RG1 3/F	26.6	42	42	42	B	65	55	65	0	0	0	Yes
RG1 4/F	29.4	42	42	42	B	65	55	65	0	0	0	Yes
RG1 5/F	32.2	42	42	42	B	65	55	65	0	0	0	Yes
RG1 6/F	35	42	42	42	B	65	55	65	0	0	0	Yes
RG1 7/F	37.8	43	42	43	B	65	55	65	0	0	0	Yes
RG1 8/F	40.6	43	43	43	B	65	55	65	0	0	0	Yes
RG1 9/F	43.4	43	43	43	B	65	55	65	0	0	0	Yes
RG1 10/F	46.2	43	43	43	B	65	55	65	0	0	0	Yes
RG1 11/F	49	43	43	43	B	65	55	65	0	0	0	Yes
RG1 12/F	51.8	43	43	43	B	65	55	65	0	0	0	Yes
RG1 13/F	54.6	43	43	43	B	65	55	65	0	0	0	Yes
RG1 14/F	57.4	43	43	43	B	65	55	65	0	0	0	Yes
RG1 15/F	60.2	42	42	42	B	65	55	65	0	0	0	Yes
RG1 16/F	63	42	42	42	B	65	55	65	0	0	0	Yes
RG1 17/F	65.8	42	42	42	B	65	55	65	0	0	0	Yes
RG1 18/F	68.6	42	42	42	B	65	55	65	0	0	0	Yes
RG1 19/F	71.4	42	42	42	B	65	55	65	0	0	0	Yes
RG1 20/F	74.2	42	42	42	B	65	55	65	0	0	0	Yes
RG1 21/F	77	42	42	42	B	65	55	65	0	0	0	Yes
RG1 22/F	79.8	42	42	42	B	65	55	65	0	0	0	Yes
RG1 23/F	82.6	42	42	42	B	65	55	65	0	0	0	Yes
RG1 24/F	85.4	42	42	42	B	65	55	65	0	0	0	Yes
RG1 25/F	88.2	42	42	42	B	65	55	65	0	0	0	Yes
RG1 26/F	91	42	42	42	B	65	55	65	0	0	0	Yes
RG1 27/F	93.8	42	42	42	B	65	55	65	0	0	0	Yes
RG1 28/F	96.6	42	42	42	B	65	55	65	0	0	0	Yes

Appendix 4.17 Summary of Unmitigated Railway Noise Levels

NAP (Floor Level)	NAP Height (mPD)	Predicted Rail Noise Level			ASR	Noise Criteria			Exceedance			Compliance
		Leq,30min		Leq, 24hr (dBA)		Leq,30min		Leq, 24hr (dBA)	Leq,30min		Leq, 24hr (dBA)	
		Day (dBA)	Night (dBA)			Day (dBA)	Night (dBA)		Day (dBA)	Night (dBA)		
PG1 1/F	26	45	45	45	B	65	55	65	0	0	0	Yes
PG1 2/F	28.7	45	45	45	B	65	55	65	0	0	0	Yes
PG1 3/F	31.4	46	46	46	B	65	55	65	0	0	0	Yes
PG1 4/F	34.1	46	46	46	B	65	55	65	0	0	0	Yes
PG1 5/F	36.8	46	46	46	B	65	55	65	0	0	0	Yes
PG1 6/F	39.5	46	46	46	B	65	55	65	0	0	0	Yes
PG1 7/F	42.2	46	46	46	B	65	55	65	0	0	0	Yes
PG1 8/F	44.9	46	46	46	B	65	55	65	0	0	0	Yes
PG1 9/F	47.6	46	46	46	B	65	55	65	0	0	0	Yes
PG1 10/F	50.3	46	46	46	B	65	55	65	0	0	0	Yes
PG1 11/F	53	46	46	46	B	65	55	65	0	0	0	Yes
PG1 12/F	55.7	46	46	46	B	65	55	65	0	0	0	Yes
PG1 13/F	58.4	46	46	46	B	65	55	65	0	0	0	Yes
PG1 14/F	61.1	46	46	46	B	65	55	65	0	0	0	Yes
PG1 15/F	63.8	46	46	46	B	65	55	65	0	0	0	Yes
PG1 16/F	66.5	45	45	45	B	65	55	65	0	0	0	Yes
PG1 17/F	69.2	45	45	45	B	65	55	65	0	0	0	Yes
PG1 18/F	71.9	45	45	45	B	65	55	65	0	0	0	Yes
PG1 19/F	74.6	45	45	45	B	65	55	65	0	0	0	Yes
PG1 20/F	77.3	45	45	45	B	65	55	65	0	0	0	Yes
PG1 21/F	80	45	45	45	B	65	55	65	0	0	0	Yes
PG1 22/F	82.7	45	45	45	B	65	55	65	0	0	0	Yes
PG1 23/F	85.4	45	45	45	B	65	55	65	0	0	0	Yes
PG1 24/F	88.1	45	45	45	B	65	55	65	0	0	0	Yes
PG1 25/F	90.8	45	45	45	B	65	55	65	0	0	0	Yes
PG1 26/F	93.5	45	45	45	B	65	55	65	0	0	0	Yes
PG1 27/F	96.2	45	45	45	B	65	55	65	0	0	0	Yes
PG1 28/F	98.9	45	45	45	B	65	55	65	0	0	0	Yes
PG1 29/F	101.6	45	45	45	B	65	55	65	0	0	0	Yes
PG1 30/F	104.3	45	45	45	B	65	55	65	0	0	0	Yes