

## Appendix 4.8.4

## Predicted Noise Level for Light Rail (Unmitigated)

NSR ID	mPD	Leq,30min, dB(A)		Lmax, dB(A)	Leq, 24-hr, dB(A)
		Daytime	Nighttime		
<b>Planned NSR</b>					
LR-P1_1	11.0	51	51	55	50
LR-P1_2	14.1	51	51	55	50
LR-P1_3	17.3	51	51	55	50
LR-P1_4	20.4	51	51	55	50
LR-P1_5	23.5	51	51	55	50
LR-P1_6	26.7	51	51	55	50
LR-P1_7	29.8	51	51	55	49
LR-P1_8	32.9	51	51	55	49
LR-P1_9	36.1	51	51	54	49
LR-P1_10	39.2	51	50	54	49
LR-P1_11	42.4	51	50	54	49
LR-P1_12	45.5	51	50	54	49
LR-P1_13	48.6	51	50	54	49
LR-P1_14	51.8	50	50	54	49
LR-P1_15	54.9	50	50	53	49
LR-P1_16	58.0	50	50	53	49
LR-P1_17	61.2	50	50	53	49
LR-P1_18	64.3	50	50	53	49
LR-P1_19	67.4	50	50	53	48
LR-P1_20	70.6	50	50	52	48
LR-P1_21	73.7	50	49	52	48
LR-P1_22	76.8	50	49	52	48
LR-P1_23	80.0	49	49	52	48
LR-P1_24	83.1	49	49	52	48
LR-P1_25	86.2	49	49	51	48
LR-P1_26	89.4	49	49	51	48
LR-P1_27	92.5	49	49	51	48
LR-P1_28	95.6	49	49	51	47
LR-P1_29	98.8	49	48	51	47
LR-P1_30	101.9	49	48	50	47
LR-P1_31	105.1	49	48	50	47
LR-P1_32	108.2	48	48	50	47
LR-P1_33	111.3	48	48	50	47
LR-P1_34	114.5	48	48	50	47
LR-P1_35	117.6	48	48	49	47
LR-P1_36	120.7	48	48	49	47
LR-P1_37	123.9	48	48	49	46
LR-P1_38	127.0	48	48	49	46
LR-P2_1	12.0	54	54	58	52
LR-P2_2	15.3	54	54	58	52
LR-P2_3	18.7	54	54	58	52
LR-P2_4	22.0	54	54	58	52
LR-P2_5	25.3	54	54	58	52
LR-P2_6	28.7	54	53	58	52

## Appendix 4.8.4

## Predicted Noise Level for Light Rail (Unmitigated)

NSR ID	mPD	Leq,30min, dB(A)		Lmax, dB(A)	Leq, 24-hr, dB(A)
		Daytime	Nighttime		
LR-P2_7	32.0	54	53	57	52
LR-P2_8	35.3	54	53	57	52
LR-P2_9	38.7	53	53	57	52
LR-P2_10	42.0	53	53	57	52
LR-P2_11	45.3	53	53	56	52
LR-P2_12	48.7	53	53	56	52
LR-P2_13	52.0	53	53	56	51
LR-P2_14	55.3	53	53	56	51
LR-P2_15	58.7	53	52	55	51
LR-P2_16	62.0	53	52	55	51
LR-P2_17	65.3	52	52	55	51
LR-P2_18	68.7	52	52	55	51
LR-P2_19	72.0	52	52	54	51
LR-P2_20	75.3	52	52	54	50
LR-P2_21	78.7	52	51	54	50
LR-P2_22	82.0	52	51	53	50
LR-P2_23	85.3	51	51	53	50
LR-P2_24	88.7	51	51	53	50
LR-P2_25	92.0	51	51	53	50
LR-P2_26	95.3	51	51	52	49
LR-P2_27	98.7	51	51	52	49
LR-P2_28	102.0	51	50	52	49
LR-P2_29	105.3	51	50	52	49
LR-P2_30	108.7	50	50	51	49
LR-P2_31	112.0	50	50	51	49
LR-P2_32	115.3	50	50	51	49
LR-P2_33	118.7	50	50	51	49
LR-P2_34	122.0	50	50	50	48
LR-P2_35	125.3	50	49	50	48
LR-P2_36	128.7	50	49	50	48
LR-P2_37	132.0	49	49	50	48
LR-P2_38	135.3	49	49	49	48
LR-P2_39	138.7	49	49	49	48
LR-P2_40	142.0	49	49	49	48
LR-P2_41	145.3	49	49	49	48
LR-P2_42	148.7	49	49	49	47
LR-P2_43	152.0	49	48	48	47
LR-P3a_1	13.0	57	57	66	55
LR-P3a_2	16.1	57	57	66	55
LR-P3a_3	19.2	57	57	66	55
LR-P3a_4	22.4	57	56	65	55
LR-P3a_5	25.5	57	56	65	55
LR-P3a_6	28.6	57	56	65	55
LR-P3a_7	31.7	56	56	65	55
LR-P3a_8	34.8	56	56	65	55

## Appendix 4.8.4

## Predicted Noise Level for Light Rail (Unmitigated)

NSR ID	mPD	Leq,30min, dB(A)		Lmax, dB(A)	Leq, 24-hr, dB(A)
		Daytime	Nighttime		
LR-P3a_9	38.0	56	56	64	55
LR-P3a_10	41.1	56	56	64	55
LR-P3a_11	44.2	56	56	64	54
LR-P3a_12	47.3	56	55	64	54
LR-P3a_13	50.4	56	55	63	54
LR-P3a_14	53.5	55	55	63	54
LR-P3a_15	56.7	55	55	63	54
LR-P3a_16	59.8	55	55	62	54
LR-P3a_17	62.9	55	55	62	53
LR-P3a_18	66.0	55	54	62	53
LR-P3a_19	69.1	55	54	61	53
LR-P3a_20	72.3	54	54	61	53
LR-P3a_21	75.4	54	54	61	53
LR-P3a_22	78.5	54	54	60	53
LR-P3a_23	81.6	54	54	60	52
LR-P3a_24	84.7	54	53	60	52
LR-P3a_25	87.9	54	53	59	52
LR-P3a_26	91.0	53	53	59	52
LR-P3a_27	94.1	53	53	59	52
LR-P3a_28	97.2	53	53	59	52
LR-P3a_29	100.3	53	53	58	51
LR-P3a_30	103.5	53	52	58	51
LR-P3a_31	106.6	53	52	58	51
LR-P3a_32	109.7	53	52	58	51
LR-P3a_33	112.8	52	52	57	51
LR-P3a_34	115.9	52	52	57	51
LR-P3a_35	119.0	52	52	57	51
LR-P3a_36	122.2	52	52	57	50
LR-P3a_37	125.3	52	52	56	50
LR-P3a_38	128.4	52	51	56	50
LR-P3a_39	131.5	52	51	56	50
LR-P3a_40	134.6	51	51	56	50
LR-P3a_41	137.8	51	51	55	50
LR-P3a_42	140.9	51	51	55	50
LR-P3a_43	144.0	51	51	55	50
LR-P3b_1	13.0	58	57	68	56
LR-P3b_2	16.1	58	57	68	56
LR-P3b_3	19.2	57	57	68	56
LR-P3b_4	22.4	57	57	68	56
LR-P3b_5	25.5	57	57	68	56
LR-P3b_6	28.6	57	57	67	56
LR-P3b_7	31.7	57	57	67	55
LR-P3b_8	34.8	57	56	67	55
LR-P3b_9	38.0	56	56	66	55
LR-P3b_10	41.1	56	56	66	55

## Appendix 4.8.4

## Predicted Noise Level for Light Rail (Unmitigated)

NSR ID	mPD	Leq,30min, dB(A)		Lmax, dB(A)	Leq, 24-hr, dB(A)
		Daytime	Nighttime		
LR-P3b_11	44.2	56	56	66	55
LR-P3b_12	47.3	56	55	65	54
LR-P3b_13	50.4	56	55	65	54
LR-P3b_14	53.5	55	55	64	54
LR-P3b_15	56.7	55	55	64	54
LR-P3b_16	59.8	55	55	63	53
LR-P3b_17	62.9	55	54	63	53
LR-P3b_18	66.0	54	54	63	53
LR-P3b_19	69.1	54	54	62	53
LR-P3b_20	72.3	54	54	62	53
LR-P3b_21	75.4	54	54	62	52
LR-P3b_22	78.5	54	53	61	52
LR-P3b_23	81.6	53	53	61	52
LR-P3b_24	84.7	53	53	61	52
LR-P3b_25	87.9	53	53	60	52
LR-P3b_26	91.0	53	53	60	51
LR-P3b_27	94.1	53	52	60	51
LR-P3b_28	97.2	53	52	59	51
LR-P3b_29	100.3	52	52	59	51
LR-P3b_30	103.5	52	52	59	51
LR-P3b_31	106.6	52	52	58	51
LR-P3b_32	109.7	52	52	58	50
LR-P3b_33	112.8	52	52	58	50
LR-P3b_34	115.9	52	51	58	50
LR-P3b_35	119.0	52	51	57	50
LR-P3b_36	122.2	51	51	57	50
LR-P3b_37	125.3	51	51	57	50
LR-P3b_38	128.4	51	51	57	50
LR-P3b_39	131.5	51	51	56	49
LR-P3b_40	134.6	51	51	56	49
LR-P3b_41	137.8	51	50	56	49
LR-P3b_42	140.9	51	50	56	49
LR-P3b_43	144.0	50	50	55	49
LR-P4_1	12.0	64	NA	78	63
LR-P4_2	16.5	64	NA	77	63
LR-P4_3	21.0	63	NA	76	62
LR-P4_4	25.5	63	NA	75	61
LR-P4_5	30.0	62	NA	74	60
LR-P4_6	34.5	61	NA	73	59
LR-P4_7	39.0	60	NA	71	59
LR-P4_8	43.5	60	NA	70	58
LR-P4_9	48.0	59	NA	69	58
LR-P5a_1	5.0	55	<b>56</b>	61	55
LR-P5a_2	8.4	55	<b>56</b>	61	55
LR-P5a_3	11.9	55	<b>56</b>	60	55

## Appendix 4.8.4

## Predicted Noise Level for Light Rail (Unmitigated)

NSR ID	mPD	Leq,30min, dB(A)		Lmax, dB(A)	Leq, 24-hr, dB(A)
		Daytime	Nighttime		
LR-P5a_4	15.3	55	<b>56</b>	60	55
LR-P5a_5	18.7	55	<b>56</b>	60	55
LR-P5a_6	22.1	55	55	60	55
LR-P5a_7	25.6	55	55	60	55
LR-P5a_8	29.0	55	55	59	55
LR-P5a_9	32.4	55	55	59	55
LR-P5a_10	35.8	54	55	59	55
LR-P5a_11	39.3	54	55	58	54
LR-P5a_12	42.7	54	55	58	54
LR-P5a_13	46.1	54	54	58	54
LR-P5a_14	49.5	54	54	57	54
LR-P5a_15	53.0	54	54	57	54
LR-P5a_16	56.4	53	54	57	53
LR-P5a_17	59.8	53	54	56	53
LR-P5a_18	63.2	53	53	56	53
LR-P5a_19	66.7	53	53	56	53
LR-P5a_20	70.1	53	53	55	53
LR-P5a_21	73.5	52	53	55	53
LR-P5a_22	76.9	52	53	55	52
LR-P5a_23	80.4	52	53	54	52
LR-P5a_24	83.8	52	52	54	52
LR-P5a_25	87.2	52	52	54	52
LR-P5a_26	90.6	52	52	53	52
LR-P5a_27	94.1	51	52	53	52
LR-P5a_28	97.5	51	52	53	51
LR-P5a_29	100.9	51	52	52	51
LR-P5a_30	104.3	51	51	52	51
LR-P5a_31	107.8	51	51	52	51
LR-P5a_32	111.2	51	51	52	51
LR-P5a_33	114.6	51	51	51	51
LR-P5a_34	118.0	50	51	51	51
LR-P5a_35	121.5	50	51	51	50
LR-P5a_36	124.9	50	51	51	50
LR-P5a_37	128.3	50	50	50	50
LR-P5a_38	131.7	50	50	50	50
LR-P5a_39	135.2	50	50	50	50
LR-P5a_40	138.6	50	50	50	50
LR-P5a_41	142.0	50	50	49	50
LR-P5b_1	5.0	55	55	60	55
LR-P5b_2	8.4	55	55	60	55
LR-P5b_3	11.9	55	55	60	55
LR-P5b_4	15.3	54	55	60	55
LR-P5b_5	18.7	54	55	60	54
LR-P5b_6	22.1	54	55	60	54
LR-P5b_7	25.6	54	55	60	54

## Appendix 4.8.4

## Predicted Noise Level for Light Rail (Unmitigated)

NSR ID	mPD	Leq,30min, dB(A)		Lmax, dB(A)	Leq, 24-hr, dB(A)
		Daytime	Nighttime		
LR-P5b_8	29.0	54	55	59	54
LR-P5b_9	32.4	54	54	59	54
LR-P5b_10	35.8	54	54	59	54
LR-P5b_11	39.3	54	54	58	54
LR-P5b_12	42.7	53	54	58	53
LR-P5b_13	46.1	53	54	58	53
LR-P5b_14	49.5	53	54	57	53
LR-P5b_15	53.0	53	53	57	53
LR-P5b_16	56.4	53	53	57	53
LR-P5b_17	59.8	53	53	56	53
LR-P5b_18	63.2	52	53	56	52
LR-P5b_19	66.7	52	53	56	52
LR-P5b_20	70.1	52	52	55	52
LR-P5b_21	73.5	52	52	55	52
LR-P5b_22	76.9	52	52	55	52
LR-P5b_23	80.4	51	52	54	51
LR-P5b_24	83.8	51	52	54	51
LR-P5b_25	87.2	51	52	54	51
LR-P5b_26	90.6	51	51	53	51
LR-P5b_27	94.1	51	51	53	51
LR-P5b_28	97.5	51	51	53	51
LR-P5b_29	100.9	50	51	52	51
LR-P5b_30	104.3	50	51	52	50
LR-P5b_31	107.8	50	51	52	50
LR-P5b_32	111.2	50	50	52	50
LR-P5b_33	114.6	50	50	51	50
LR-P5b_34	118.0	50	50	51	50
LR-P5b_35	121.5	50	50	51	50
LR-P5b_36	124.9	49	50	51	50
LR-P5b_37	128.3	49	50	50	49
LR-P5b_38	131.7	49	50	50	49
LR-P5b_39	135.2	49	50	50	49
LR-P5b_40	138.6	49	49	50	49
LR-P5b_41	142.0	49	49	49	49
LR-P5c_1	5.0	54	55	62	54
LR-P5c_2	8.4	54	55	62	54
LR-P5c_3	11.9	54	55	62	54
LR-P5c_4	15.3	54	55	62	54
LR-P5c_5	18.7	54	55	62	54
LR-P5c_6	22.1	54	55	61	54
LR-P5c_7	25.6	54	54	61	54
LR-P5c_8	29.0	54	54	61	54
LR-P5c_9	32.4	54	54	60	54
LR-P5c_10	35.8	53	54	60	54
LR-P5c_11	39.3	53	54	60	53

## Appendix 4.8.4

## Predicted Noise Level for Light Rail (Unmitigated)

NSR ID	mPD	Leq,30min, dB(A)		Lmax, dB(A)	Leq, 24-hr, dB(A)
		Daytime	Nighttime		
LR-P5c_12	42.7	53	54	59	53
LR-P5c_13	46.1	53	53	59	53
LR-P5c_14	49.5	53	53	59	53
LR-P5c_15	53.0	53	53	58	53
LR-P5c_16	56.4	52	53	58	52
LR-P5c_17	59.8	52	53	57	52
LR-P5c_18	63.2	52	52	57	52
LR-P5c_19	66.7	52	52	57	52
LR-P5c_20	70.1	52	52	56	52
LR-P5c_21	73.5	51	52	56	51
LR-P5c_22	76.9	51	52	56	51
LR-P5c_23	80.4	51	52	55	51
LR-P5c_24	83.8	51	51	55	51
LR-P5c_25	87.2	51	51	55	51
LR-P5c_26	90.6	51	51	54	51
LR-P5c_27	94.1	50	51	54	50
LR-P5c_28	97.5	50	51	54	50
LR-P5c_29	100.9	50	51	53	50
LR-P5c_30	104.3	50	50	53	50
LR-P5c_31	107.8	50	50	53	50
LR-P5c_32	111.2	50	50	52	50
LR-P5c_33	114.6	50	50	52	50
LR-P5c_34	118.0	49	50	52	49
LR-P5c_35	121.5	49	50	52	49
LR-P5c_36	124.9	49	50	51	49
LR-P5c_37	128.3	49	49	51	49
LR-P5c_38	131.7	49	49	51	49
LR-P5c_39	135.2	49	49	51	49
LR-P5c_40	138.6	49	49	50	49
LR-P5c_41	142.0	48	49	50	49
LR-P6_1	5.0	56	<b>56</b>	63	56
LR-P6_2	8.4	56	<b>56</b>	63	56
LR-P6_3	11.8	56	<b>56</b>	63	56
LR-P6_4	15.3	56	<b>56</b>	63	56
LR-P6_5	18.7	56	<b>56</b>	63	56
LR-P6_6	22.1	56	<b>56</b>	63	56
LR-P6_7	25.5	56	<b>56</b>	63	56
LR-P6_8	28.9	55	<b>56</b>	62	55
LR-P6_9	32.3	55	<b>56</b>	62	55
LR-P6_10	35.8	55	<b>56</b>	62	55
LR-P6_11	39.2	55	55	62	55
LR-P6_12	42.6	55	55	61	55
LR-P6_13	46.0	55	55	61	55
LR-P6_14	49.4	55	55	61	55
LR-P6_15	52.9	54	55	60	54

## Appendix 4.8.4

## Predicted Noise Level for Light Rail (Unmitigated)

NSR ID	mPD	Leq,30min, dB(A)		Lmax, dB(A)	Leq, 24-hr, dB(A)
		Daytime	Nighttime		
LR-P6_16	56.3	54	55	60	54
LR-P6_17	59.7	54	54	60	54
LR-P6_18	63.1	54	54	59	54
LR-P6_19	66.5	54	54	59	54
LR-P6_20	70.0	53	54	59	54
LR-P6_21	73.4	53	54	58	53
LR-P6_22	76.8	53	54	58	53
LR-P6_23	80.2	53	53	58	53
LR-P6_24	83.6	53	53	57	53
LR-P6_25	87.0	53	53	57	53
LR-P6_26	90.5	53	53	57	53
LR-P6_27	93.9	52	53	57	52
LR-P6_28	97.3	52	53	56	52
LR-P6_29	100.7	52	53	56	52
LR-P6_30	104.1	52	52	56	52
LR-P6_31	107.6	52	52	55	52
LR-P6_32	111.0	52	52	55	52
LR-P6_33	114.4	52	52	55	52
LR-P6_34	117.8	51	52	55	51
LR-P6_35	121.2	51	52	54	51
LR-P6_36	124.7	51	52	54	51
LR-P6_37	128.1	51	51	54	51
LR-P6_38	131.5	51	51	54	51
LR-P6_39	134.9	51	51	53	51
LR-P6_40	138.3	51	51	53	51
LR-P6_41	141.7	51	51	53	51
LR-P6_42	145.2	50	51	53	50
LR-P6_43	148.6	50	51	53	50
LR-P6_44	152.0	50	51	52	50
Existing NSR					
LR-E1_1	12.5	61	60	72	59
LR-E1_2	15.5	61	60	72	59
LR-E1_3	18.5	60	60	71	59
LR-E1_4	21.5	60	60	71	59
LR-E2_1	11.6	60	60	70	59
LR-E2_2	14.6	60	60	70	59
LR-E2_3	17.6	60	59	69	58
LR-E2_4	20.6	59	59	69	58
LR-E2_5	23.6	58	58	68	57
LR-E2_6	26.6	58	58	67	56
LR-E2_7	29.6	57	57	66	56
LR-E3_1	10.4	57	57	66	56
LR-E3_2	13.4	57	57	66	56
LR-E3_3	16.4	57	57	66	56
LR-E3_4	19.4	57	57	66	55



## Appendix 4.8.4

## Predicted Noise Level for Light Rail (Unmitigated)

NSR ID	mPD	Leq,30min, dB(A)		Lmax, dB(A)	Leq, 24-hr, dB(A)
		Daytime	Nighttime		
LR-E3_5	22.4	57	56	65	55
LR-E3_6	25.4	56	56	65	55
LR-E3_7	28.4	56	56	65	55
LR-E3_8	31.4	56	55	64	54
LR-E3_9	34.4	55	55	63	54
LR-E3_10	37.4	55	55	63	54
LR-E3_11	40.4	55	54	62	53
LR-E3_12	43.4	54	54	62	53
LR-E3_13	46.4	54	54	61	53
LR-E4_1	10.1	58	58	67	57
LR-E4_2	13.1	58	58	67	57
LR-E4_3	16.1	58	58	67	57
LR-E4_4	19.1	58	58	67	57
LR-E4_5	22.1	58	58	66	56
LR-E4_6	25.1	57	57	66	56
LR-E4_7	28.1	57	57	65	56
LR-E4_8	31.1	57	57	65	55
LR-E4_9	34.1	56	56	64	55
LR-E4_10	37.1	56	56	64	55
LR-E4_11	40.1	56	56	63	54
LR-E4_12	43.1	55	55	62	54
LR-E4_13	46.1	55	55	62	54
LR-E5_1	10.6	58	58	68	57
LR-E5_2	13.6	58	58	68	57
LR-E5_3	16.6	58	58	68	57
LR-E5_4	19.6	58	58	67	56
LR-E5_5	22.6	57	57	67	56
LR-E5_6	25.6	57	57	66	56
LR-E5_7	28.6	57	56	65	55
LR-E5_8	31.6	56	56	65	55
LR-E5_9	34.6	56	56	64	54
LR-E5_10	37.6	56	55	64	54
LR-E5_11	40.6	55	55	63	54
LR-E5_12	43.6	55	55	62	53
LR-E5_13	46.6	55	54	62	53
LR-E6_1	5.5	58	58	64	57
LR-E6_2	8.5	58	58	64	57
LR-E6_3	11.5	58	58	64	57
LR-E6_4	14.5	58	58	64	57
LR-E7_1	13.5	58	NA	66	57
LR-E7_2	16.5	58	NA	66	56