Appendix E Baseline noise monitoring data

Noise Monitoring Data Sheet

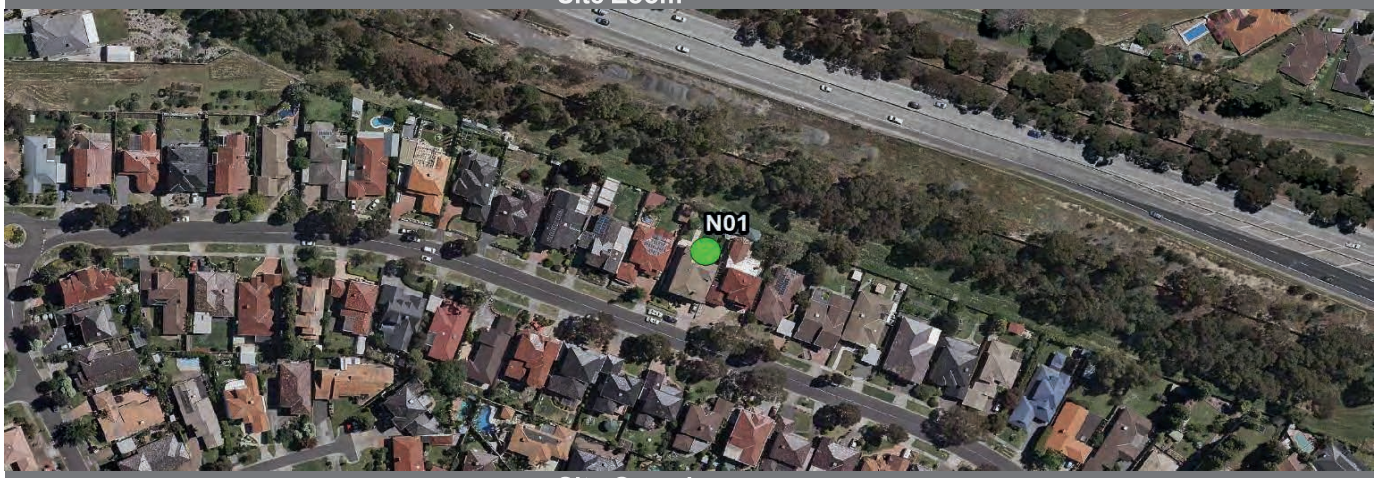
34 Edmund Rice Parade, Watsonia North

SITE ID
1

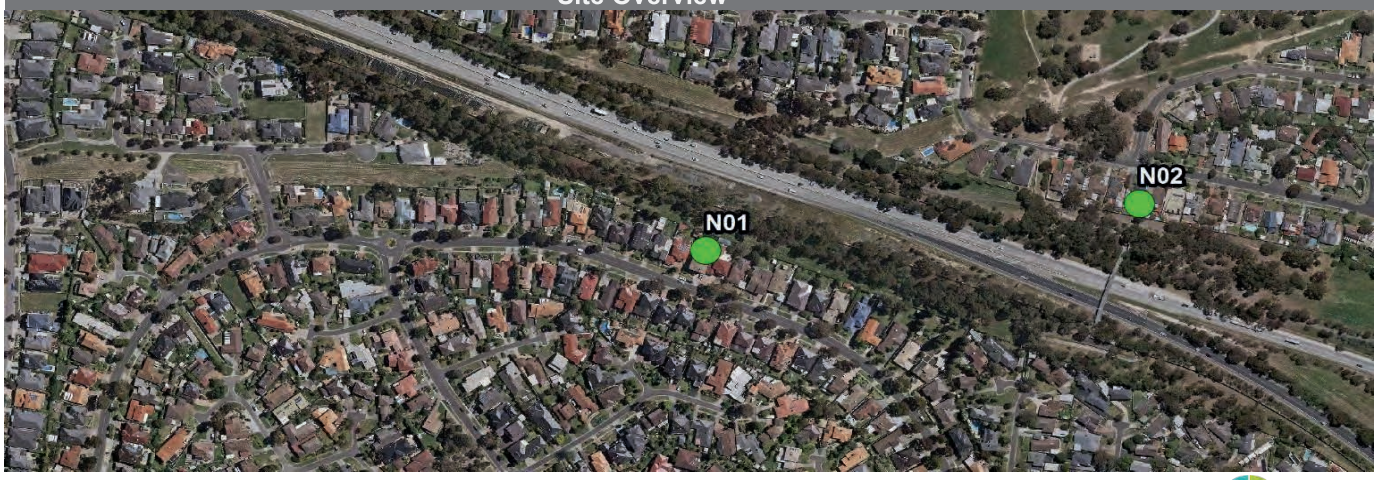
Dominant Road	Metropolitan Ring Road	From	14/04/2018	Address	34 Edmund Rice Parade
18-hr Traffic Flow	-	To	24/04/2018	Suburb	Watsonia North
Road Surface	Stone Seal	Mic. Height (m)	1.7	State	Victoria
Posted Speed (km/h)	100	Meas. Type	Façade	Longitude	145° 4'59.90"E
Distance to Road (m)	72	Inst. Serial #	164396	Latitude	37°41'24.17"S
% of H.V.	-	Operator	MV	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	17/04	18/04	19/04	20/04	21/04
$L_{10,18hr}$, Arith Av, 6-24h	**59**	59 dBA	60 dBA	59 dBA	59 dBA	59 dBA
$L_{eq,15hr}$, Log Av, 7-22h	**58**	57 dBA	59 dBA	58 dBA	58 dBA	58 dBA
$L_{eq,16hr}$, Log Av, 6-22h	**58**	57 dBA	59 dBA	58 dBA	58 dBA	58 dBA
$L_{eq,8hr}$, Log Av, 22-6h	**54**	52 dBA	54 dBA	54 dBA	55 dBA	54 dBA
$L_{eq,9hr}$, Log Av, 22-7h	**55**	54 dBA	56 dBA	56 dBA	56 dBA	54 dBA

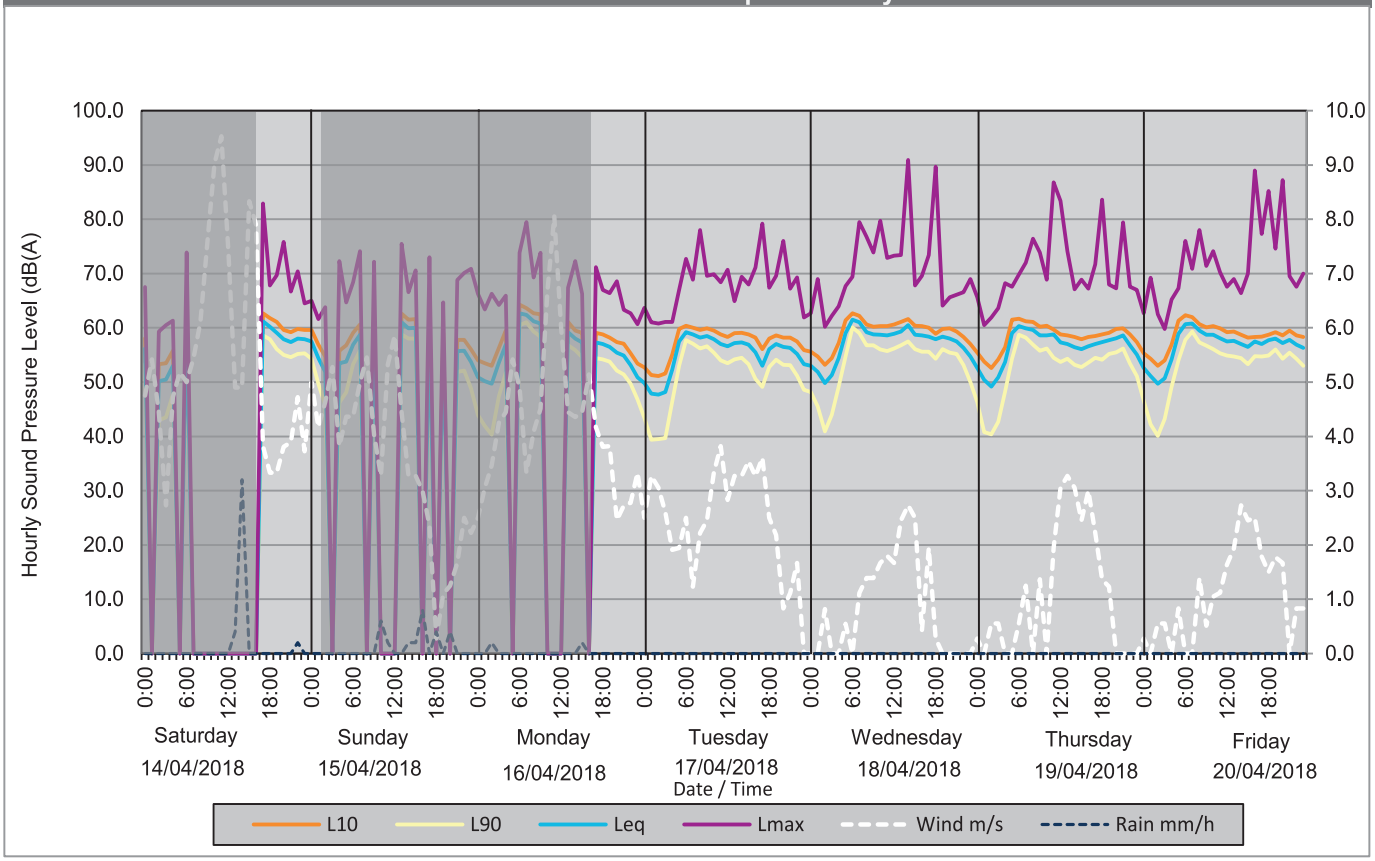
Site Zoom



Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Saturday 14/04/2018							Sunday 15/04/2018							Monday 16/04/2018							Tuesday 17/04/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	58	53	56	68	WNW	4.8	0.0	60	54	58	65	NNW	5.0	0.0	54	44	51	66	N	2.5	0.0	53	43	50	64	W	2.5	0.0
1:00					W	5.4	0.0	57	50	54	62	NNW	4.2	0.0	54	42	50	63	N	3.1	0.0	51	39	48	61	WSW	3.3	0.0
2:00	53	43	50	59	W	4.4	0.0	55	46	52	64	NW	4.6	0.0	53	40	50	66	N	3.5	0.2	51	40	48	61	WSW	3.1	0.0
3:00	54	44	51	61	NW	2.7	0.0					WNW	5.3	0.0	56	47	54	64	N	4.3	0.0	52	40	48	61	WSW	2.6	0.0
4:00	56	48	53	61	NNW	4.7	0.0	56	46	54	72	NW	3.8	0.0	60	52	57	66	NNW	4.4	0.0	55	46	52	61	W	1.9	0.0
5:00					N	5.2	0.0	57	48	54	65	NW	4.4	0.0					NNW	5.4	0.0	60	53	58	67	W	1.9	0.0
6:00	63	58	61	74	NNE	5.0	0.0	59	53	57	68	NW	4.4	0.0	64	61	63	74	NNW	4.9	0.0	60	58	59	73	WSW	2.5	0.0
7:00					ENE	5.4	0.0	61	56	59	74	NNW	5.0	0.0	64	61	62	80	N	3.3	0.0	60	57	59	69	WSW	1.2	0.0
8:00					ENE	6.1	0.0					N	5.5	0.0	63	59	61	69	NW	4.1	0.0	60	56	58	78	S	2.2	0.0
9:00					NE	7.6	0.0	63	59	62	72	N	4.0	0.0	63	58	61	74	W	4.5	0.0	60	57	59	70	S	2.4	0.0
10:00					NE	9.0	0.0					NW	3.3	0.6					W	6.7	0.0	60	55	58	70	SSW	3.3	0.0
11:00					NE	9.5	0.0					WNW	5.3	0.2					W	8.1	0.0	59	54	57	68	SW	3.8	0.0
12:00					NNE	7.4	0.0					WNW	5.9	0.0					WSW	6.0	0.0	58	54	57	71	SSW	2.8	0.0
13:00					NW	4.9	0.4	63	59	61	76	WNW	4.4	0.0	61	57	59	67	WSW	4.4	0.0	59	54	57	65	S	3.3	0.0
14:00					NNW	4.9	3.2	62	58	60	67	W	3.3	0.2	60	56	58	72	SW	4.4	0.0	59	55	57	69	S	3.3	0.0
15:00					WNW	8.3	0.0	62	58	60	71	W	3.3	0.2	59	55	57	66	SSW	4.4	0.2	59	53	57	68	SSW	3.5	0.0
16:00					W	7.9	0.0					W	3.0	0.8					SW	5.1	0.0	58	51	56	71	SSW	3.3	0.0
17:00	63	59	61	83	W	3.8	0.0	61	58	60	73	W	2.4	0.0	59	54	57	71	SW	4.2	0.0	56	49	53	79	SSW	3.6	0.0
18:00	62	58	60	68	NW	3.3	0.0					W	0.3	0.4	59	54	57	67	SW	3.8	0.0	58	53	56	67	S	2.5	0.0
19:00	61	56	59	70	NW	3.3	0.0	59	54	57	65	W	1.1	0.0	58	54	57	66	SSW	3.8	0.0	59	54	57	70	S	2.2	0.0
20:00	60	55	58	76	NNW	3.8	0.0					W	1.3	0.4	57	52	55	69	SSW	2.5	0.0	58	53	57	76	SSW	0.8	0.0
21:00	59	55	57	67	NW	3.9	0.0	58	52	56	69	W	1.7	0.0	57	51	55	63	SW	2.7	0.0	58	53	56	67	SW	1.1	0.0
22:00	60	55	58	70	NW	4.7	0.2	58	52	56	70	NW	2.5	0.0	55	50	53	63	WSW	2.8	0.0	58	51	55	69	SW	1.7	0.0
23:00	60	55	58	65	N	3.7	0.0	56	49	54	71	NW	2.2	0.0	53	47	51	61	WSW	3.3	0.0	56	49	53	62	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$																						59						
$L_{eq,15hr,\ 7\text{-}22h}$																								57				
$L_{eq,9hr,\ 22\text{-}7h}$																								54				
$L_{eq,16hr,\ 6\text{-}22h}$																								57				
$L_{eq,8hr,\ 22\text{-}6h}$																								52				
$L_{max,\ 24h}$																									79			
Adverse Weather Count	12							8							5							0						

Start Time	Wednesday 18/04/2018							Thursday 19/04/2018							Friday 20/04/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	56	48	53	63	N	0.0	0.0	55	46	53	66	W	0.3	0.0	55	47	53	63	N	0.3	0.0
1:00	55	46	52	69	N	0.0	0.0	54	41	50	61	N	0.0	0.0	54	42	51	69	N	0.0	0.0
2:00	53	41	50	60	S	0.8	0.0	53	40	49	62	W	0.6	0.0	53	40	50	63	N	0.6	0.0
3:00	54	44	51	62	N	0.0	0.0	54	43	51	64	W	0.6	0.0	54	43	51	60	NNE	0.6	0.0
4:00	57	49	54	64	N	0.0	0.0	56	48	54	68	N	0.0	0.0	57	49	54	65	N	0.0	0.0
5:00	61	55	59	68	S	0.5	0.0	62	54	59	68	N	0.0	0.0	61	54	59	67	N	0.8	0.0
6:00	63	60	62	69	N	0.0	0.0	62	59	60	70	W	0.6	0.0	62	58	61	76	N	0.0	0.0
7:00	62	59	61	80	SSE	1.1	0.0	61	58	60	72	W	1.3	0.0	62	59	61	71	N	0.0	0.0
8:00	61	57	59	77	SSE	1.4	0.0	61	57	60	76	N	0.0	0.0	61	57	60	78	NE	1.4	0.0
9:00	60	57	59	74	SE	1.4	0.0	60	56	59	74	SSW	1.4	0.0	60	57	59	71	NE	0.5	0.0
10:00	60	56	59	80	SE	1.7	0.0	60	56	59	69	N	0.0	0.0	60	56	59	74	NW	1.0	0.0
11:00	60	56	59	73	ESE	1.8	0.0	60	55	59	87	SW	1.9	0.0	60	55	58	70	S	1.1	0.0
12:00	61	56	59	73	E	1.7	0.0	59	54	57	83	SSW	3.1	0.0	59	55	58	68	SW	1.6	0.0
13:00	61	57	59	73	NNE	2.4	0.0	59	54	57	74	SSW	3.3	0.0	59	55	58	69	SSW	1.9	0.0
14:00	62	58	61	91	N	2.7	0.0	58	53	56	67	SW	3.1	0.0	59	54	57	66	SSW	2.7	0.0
15:00	60	56	59	68	N	2.5	0.0	58	53	56	69	SW	2.5	0.0	58	53	57	70	S	2.4	0.0
16:00	60	56	59	70	SSW	0.4	0.0	58	54	57	67	SW	3.0	0.0	58	55	58	89	S	2.5	0.0
17:00	60	56	58	73	WSW	1.9	0.0	59	55	57	72	SSW	2.2	0.0	58	55	57	77	S	1.8	0.0
18:00	59	54	58	90	W	0.3	0.0	59	54	57	84	SSW	1.4	0.0	59	55	58	85	SSW	1.5	0.0
19:00	60	56	58	64	N	0.0	0.0	59	55	58	68	SW	1.2	0.0	59	56	58	75	SW	1.8	0.0
20:00	60	55	58	66	N	0.0	0.0	60	56	58	67	N	0.0	0.0	59	54	57	87	SW	1.7	0.0
21:00	59	55	58	66	N	0.0	0.0	60	56	59	79	N	0.0	0.0	60	55	58	70	N	0.0	0.0
22:00	58	53	56	67	N	0.0	0.0	59	53	57	68	N	0.0	0.0	59	54	57	68	SW	0.8	0.0
23:00	57	50	55	69	N	0.0	0.0	57	51	55	67	N	0.0	0.0	58	53	56	70	WSW	0.8	0.0
$L_{10,18hr,\ 6\text{-}24h}$	60							59							59						
$L_{eq,15hr,\ 7\text{-}22h}$			59							58							58				
$L_{eq,9hr,\ 22\text{-}7h}$			56							56							56				
$L_{eq,16hr,\ 6\text{-}22h}$			59							58							58				
$L_{eq,8hr,\ 22\text{-}6h}$			54							54							55				
$L_{max,\ 24h}$				91							87							89			
Adverse Weather Count	0							0							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

Noise Monitoring Data Sheet

12 Eastgate Dr, Greensborough

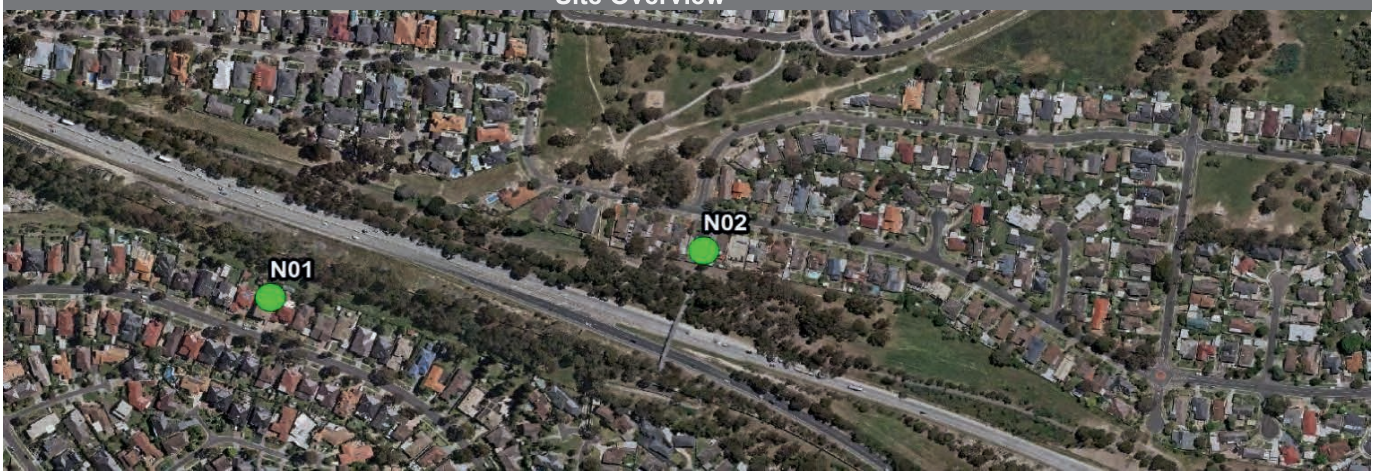
SITE ID
2

Dominant Road	Metropolitan Ring Road	From	6/02/2018	Address	12 Eastgate Dr
18-hr Traffic Flow	-	To	13/02/2018	Suburb	Greensborough
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'14.19"E
Distance to Road (m)	70	Inst. Serial #	409174	Latitude	37°41'23.06"S
% of H.V.	-	Operator	LE	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

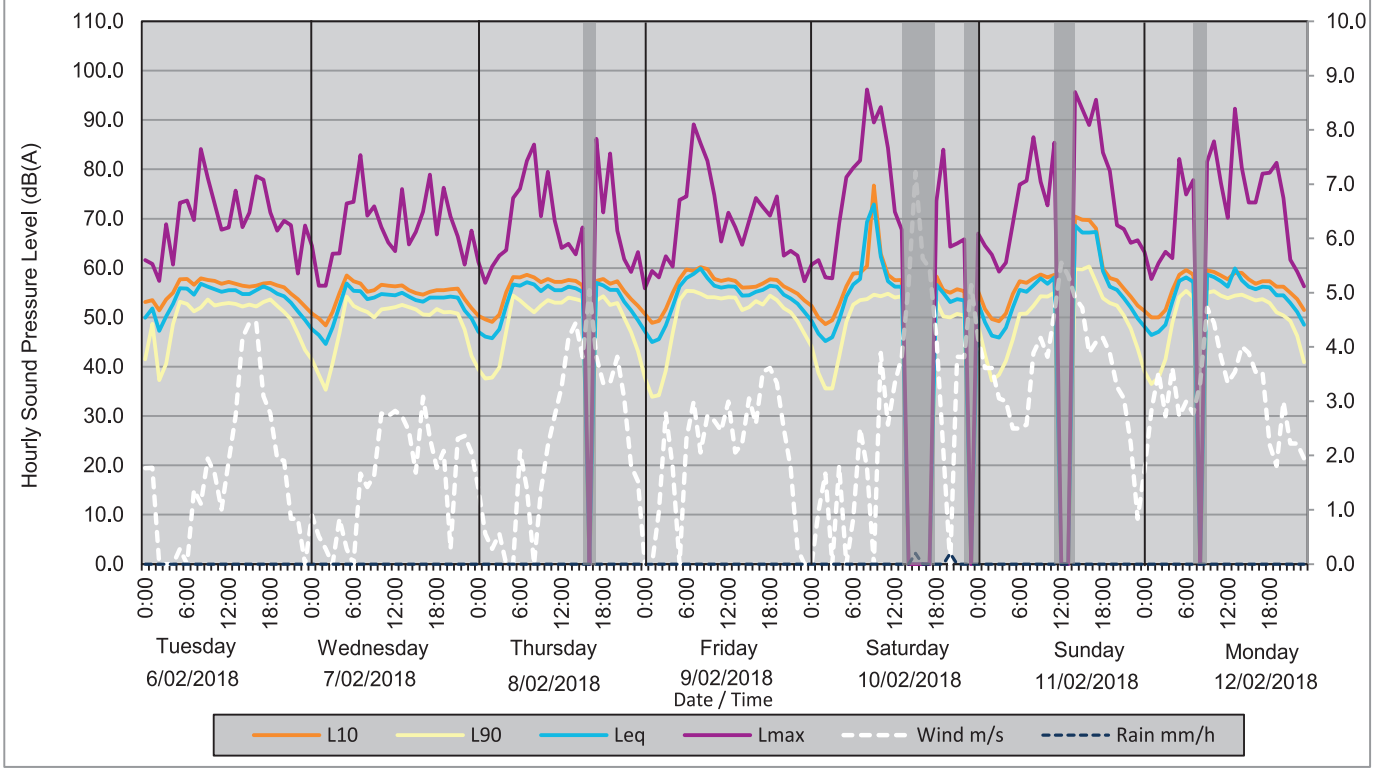
Date	Avg	6/02	7/02	8/02	9/02	11/02	12/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**57**	56 dBA	56 dBA	57 dBA	57 dBA	60 dBA	57 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**58**	55 dBA	54 dBA	56 dBA	56 dBA	63 dBA	57 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**58**	55 dBA	54 dBA	56 dBA	57 dBA	63 dBA	57 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**51**	52 dBA	51 dBA	51 dBA	51 dBA	51 dBA	52 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**52**	53 dBA	52 dBA	52 dBA	53 dBA	52 dBA	53 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Project No. 60539390 Project:NEL noise monitoring - Residential

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Tuesday 06/02/2018							Wednesday 07/02/2018							Thursday 08/02/2018							Friday 09/02/2018							Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	53	42	50	62	W	1.8	0.0	51	41	48	65	ESE	0.9	0.0	50	40	47	61	N	1.4	0.0	51	38	47	56	N	0.0	0.0	52	44	49	61	N	0.0	0.0	55	49	53	67	W	4.2	0.0	51	39	48	63	W	1.7	0.0
1:00	54	49	52	61	WNW	1.8	0.0	50	38	46	56	NW	0.5	0.0	50	38	46	57	NNE	0.6	0.0	49	34	45	59	N	0.0	0.0	50	39	47	62	N	1.0	0.0	52	43	49	65	W	3.6	0.0	50	37	46	58	W	2.8	0.0
2:00	51	37	47	57	N	0.0	0.0	48	35	45	56	NE	0.3	0.0	49	38	46	60	NE	0.3	0.0	49	34	46	58	SW	1.0	0.0	49	36	45	58	NE	1.7	0.0	50	37	46	63	W	3.6	0.0	50	38	47	61	W	3.5	0.0
3:00	54	41	50	69	N	0.0	0.0	51	41	48	63	N	0.0	0.0	51	40	48	63	NNE	0.6	0.0	52	39	48	62	SSW	2.8	0.0	49	36	46	58	N	0.0	0.0	49	38	46	59	W	3.1	0.0	52	42	49	63	WNW	2.7	0.0
4:00	55	49	53	61	N	0.0	0.0	55	47	52	63	NNE	0.8	0.0	55	47	52	64	N	0.0	0.0	55	47	52	60	S	1.8	0.0	53	42	50	69	E	1.8	0.0	51	41	48	61	W	3.0	0.0	56	49	53	62	W	3.6	0.0
5:00	58	53	56	73	NNW	0.3	0.0	59	54	57	73	NNE	0.3	0.0	58	54	57	74	N	0.0	0.0	58	54	56	74	N	0.0	0.0	56	49	54	78	N	0.0	0.0	55	46	52	69	W	2.5	0.0	59	54	57	82	W	2.7	0.0
6:00	58	53	56	74	N	0.0	0.0	57	52	55	73	N	0.0	0.0	58	53	56	76	WSW	2.1	0.0	60	55	58	75	S	2.3	0.0	59	53	57	80	ENE	0.8	0.0	57	51	56	77	W	2.5	0.0	60	55	58	75	W	3.0	0.0
7:00	57	51	55	70	NNW	1.4	0.0	57	52	55	83	NE	1.7	0.0	59	52	57	82	SW	1.4	0.0	59	55	59	89	SSW	3.0	0.0	59	54	58	82	E	2.5	0.0	57	51	55	78	WSW	2.6	0.0	59	54	57	78	W	2.8	0.0
8:00	58	52	57	84	ENE	1.1	0.0	55	51	54	71	E	1.4	0.0	58	51	57	85	N	0.0	0.0	60	55	60	85	S	2.1	0.0	60	54	69	96	E	1.8	0.0	58	52	57	87	SW	3.9	0.0					WSW	3.3	0.0
9:00	58	54	56	78	ENE	1.9	0.0	56	50	54	73	SE	1.6	0.0	57	52	55	71	S	1.4	0.0	60	54	58	82	SW	2.7	0.0	77	55	73	90	S	0.0	0.0	59	54	58	78	SSW	4.2	0.0	60	55	59	82	WSW	4.7	0.0
10:00	57	52	56	73	SSE	1.7	0.0	57	52	55	68	NE	2.8	0.0	58	54	56	80	WSW	2.2	0.0	58	54	56	75	SW	2.6	0.0	63	54	62	93	NNW	3.9	0.0	58	54	57	73	SW	3.8	0.0	59	55	58	86	WSW	4.4	0.0
11:00	57	53	55	68	SSE	1.0	0.0	56	52	55	65	NE	2.7	0.0	57	53	56	70	SW	2.7	0.0	57	54	56	65	SW	2.5	0.0	59	55	57	84	NW	2.6	0.0	59	55	58	85	SSW	4.6	0.0	59	54	57	77	WSW	3.8	0.0
12:00	57	53	56	68	S	1.9	0.0	56	52	55	63	NE	2.8	0.0	57	53	56	64	SW	3.3	0.0	58	54	56	71	WSW	3.0	0.0	58	54	56	71	NNE	3.3	0.0					SW	5.6	0.0	58	54	56	70	SW	3.3	0.0
13:00	57	53	56	76	SSW	2.7	0.0	57	53	55	76	ENE	2.7	0.0	58	54	56	65	SW	4.2	0.0	57	54	56	68	SSE	2.1	0.0	58	54	56	68	NNE	3.8	0.0					SW	5.3	0.0	59	54	60	92	SW	3.5	0.0
14:00	56	52	55	68	SW	4.2	0.0	56	52	54	65	ENE	2.4	0.0	57	54	56	63	SSW	4.4	0.0	56	52	54	65	S	2.2	0.0					N	5.1	0.0	70	60	69	96	SW	4.9	0.0	59	55	58	80	SSW	4.0	0.0
15:00	56	53	55	71	SW	4.4	0.0	55	52	54	67	NNE	1.7	0.0	57	53	55	68	SSW	3.8	0.0	56	52	55	70	S	3.1	0.0					N	7.2	0.2	70	60	67	92	SW	4.7	0.0	58	54	56	73	SSW	3.9	0.0
16:00	56	52	56	79	SW	4.4	0.0	55	51	53	71	N	3.1	0.0					SW	5.0	0.0	56	53	55	74	SSW	2.6	0.0					N	5.6	0.0	70	60	67	89	SW	3.9	0.0	57	53	56	73	SW	3.5	0.0
17:00	57	53	56	78	S	3.1	0.0	55	51	54	79	NE	2.3	0.0	57	53	57	86	SW	3.8	0.0	57	53	56	72	SW	3.5	0.0					N	5.5	0.0	68	57	67	94	SW	4.1	0.0	57	54	56	79	SSW	3.5	0.0
18:00	57	54	56	71	SSE	2.8	0.0	56	52	54	67	ENE	1.8	0.0	58	54	57	71	SW	3.3	0.0	58	54	56	71	SW	3.6	0.0	58	53	57	74	SW	4.2	0.0	60	54	59	83	SW	4.2	0.0	57	53	56	79	S	2.2	0.0
19:00	57	52	55	68	SSE	1.9	0.0	56	51	54	76	E	2.1	0.0	57	53	56	83	SW	3.3	0.0	58	54	56	75	WSW	3.3	0.0	56	50	55	84	SW	2.1	0.0	58	53	56	80	SW	3.9	0.0	56	51	55	81	S	1.8	0.0
20:00	56	51	54	70	S	1.9	0.0	56	51	54	70	E	0.3	0.0	57	53	56	68	SSW	3.8	0.0	56	52	55	63	SW	2.5	0.0	55	50	53	64	N	0.0	0.2	58	52	56	69	SSW	3.3	0.0	56	50	55	74	SSW	3.0	0.0
21:00	55	50	53	69	S	0.8	0.0	56	51	54	66	WNW	2.3	0.0	55	50	53	62	SW	3.1	0.0	56	51	54	64	SW	1.8	0.0	56	51	54	65	SW	3.8	0.0	56	50	54	68	SSW	3.1	0.0	55	49	53	62	S	2.2	0.0
22:00	54	47	51	59	SSW	0.8	0.0	54	48	51	61	WNW	2.4	0.0	54	47	51	59	SW	1.8	0.0	55	49	53	63	S	0.3	0.0	55	50	53	66	WSW	3.8	0.0	54	48	52	65	S	2.2	0.0	54	46	51	59	SSW	2.2	0.0
23:00	52	43	50	69	N	0.0	0.0	52	42	50	68	NNW	2.1	0.0	52	43	49	63	SW	1.5	0.0	53	47	51	57	N	0.0	0.0					WSW	5.1	0.0	52	44	50	66	S	0.8	0.0	52	41	49	56	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	56							56							57							57														60							57						
$L_{eq,15hr,\ 7\text{-}22h}$			55							54							56							56														63							57				
$L_{eq,9hr,\ 22\text{-}7h}$			53							52							52							53														52							53				
$L_{eq,16hr,\ 6\text{-}22h}$			55							54							56							57														63							57				
$L_{eq,8hr,\ 22\text{-}6h}$			52							51							51							51														51							52				
$L_{max,\ 24h}$				84							83							86							89														96							92				
Adverse Weather Count	0							0							1							0							5							2							1						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet

43 Gillingham St, Watsonia North

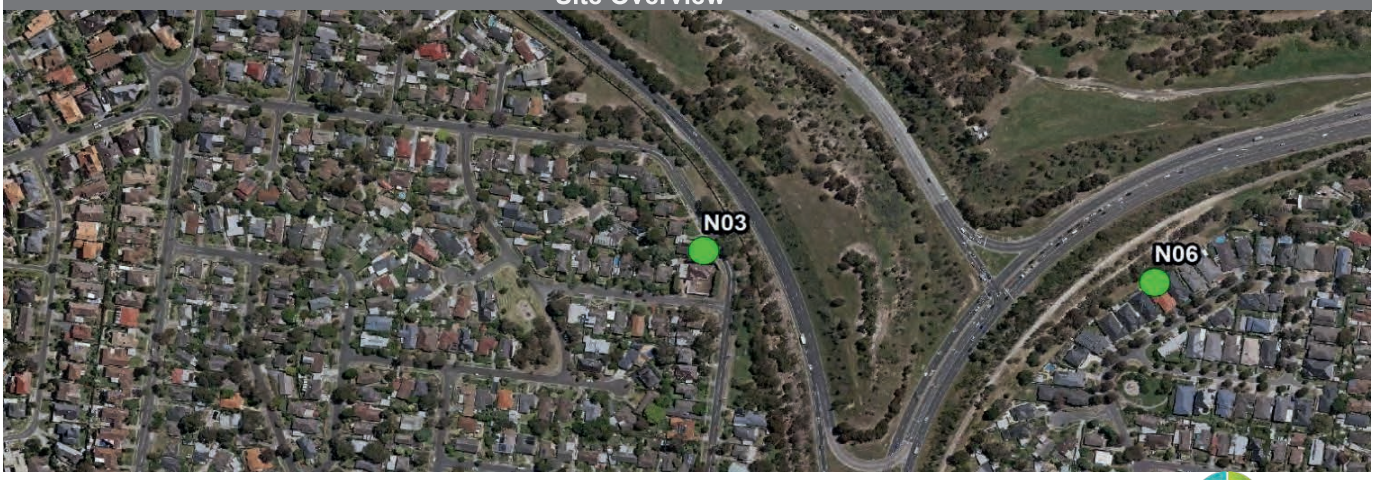
SITE ID
3

Dominant Road	Metropolitan Ring Road	From	6/02/2018	Address	43 Gillingham St
18-hr Traffic Flow	-	To	13/02/2018	Suburb	Watsonia North
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'26.29"E
Distance to Road (m)	50	Inst. Serial #	164394	Latitude	37°41'36.81"S
% of H.V.	-	Operator	LE	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

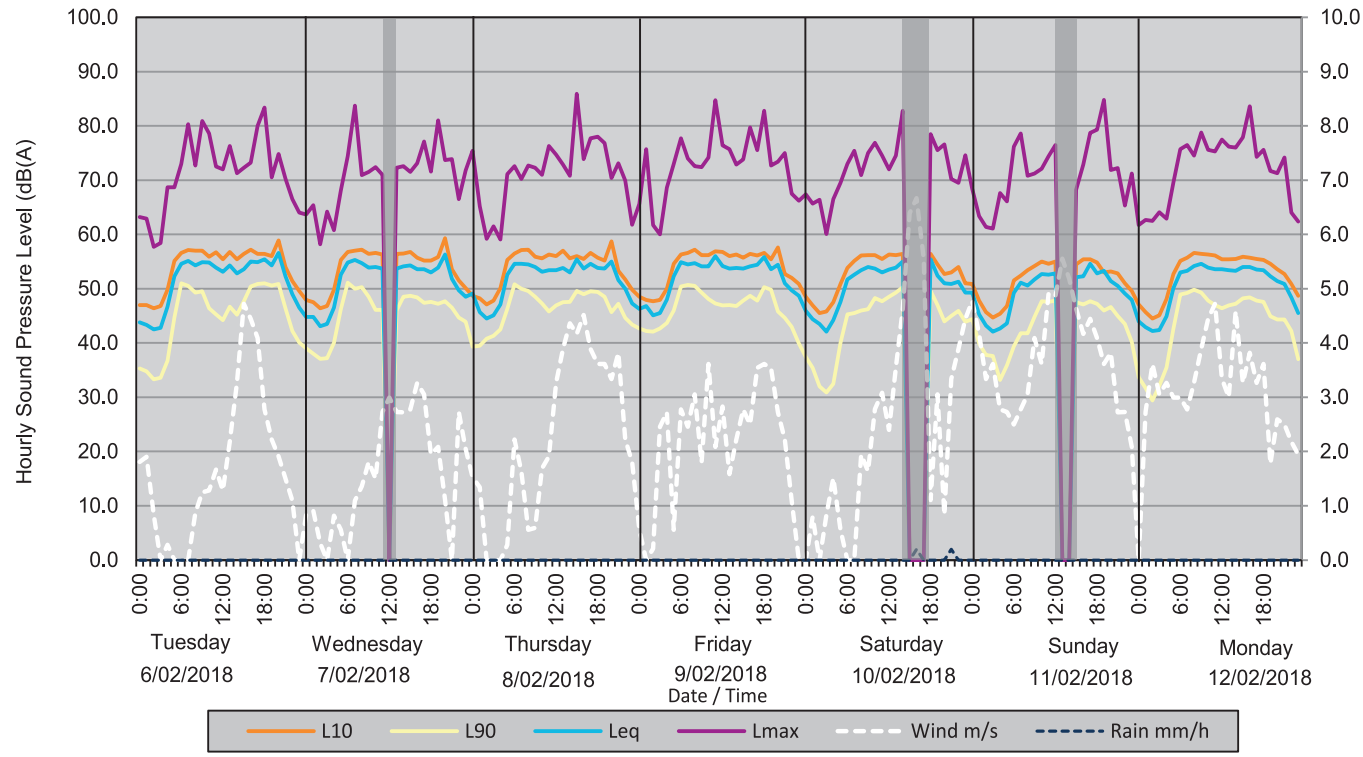
Date	Avg	6/02	7/02	8/02	9/02	10/02	11/02	12/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**55**	56 dBA	56 dBA	56 dBA	56 dBA	55 dBA	53 dBA	55 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**54**	54 dBA	54 dBA	54 dBA	54 dBA	53 dBA	52 dBA	53 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**54**	54 dBA	54 dBA	54 dBA	54 dBA	53 dBA	52 dBA	53 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**47**	47 dBA	48 dBA	49 dBA	48 dBA	46 dBA	47 dBA	46 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**49**	49 dBA	49 dBA	50 dBA	50 dBA	47 dBA	47 dBA	48 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Project No. 60539390 Project:NEL noise monitoring - Residential

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Tuesday 06/02/2018							Wednesday 07/02/2018							Thursday 08/02/2018							Friday 09/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	47	35	44	63	WNW	1.8	0.0	48	39	45	64	SSW	0.8	0.0	49	39	49	75	N	1.5	0.0	49	43	46	66	SW	0.6	0.0
1:00	47	35	43	63	W	1.9	0.0	48	38	45	65	ENE	0.9	0.0	48	40	46	65	N	1.3	0.0	48	42	47	76	N	0.0	0.0
2:00	46	33	43	58	NW	0.8	0.0	46	37	43	58	N	0.3	0.0	47	41	45	59	N	0.0	0.0	48	42	45	62	NNW	0.2	0.0
3:00	47	34	43	58	N	0.0	0.0	47	37	44	64	N	0.0	0.0	48	41	45	62	N	0.0	0.0	48	43	46	60	SW	2.5	0.0
4:00	50	37	47	69	NW	0.3	0.0	50	40	47	61	NNE	0.8	0.0	50	43	47	59	N	0.0	0.0	50	44	48	69	SSW	2.7	0.0
5:00	55	45	52	69	N	0.0	0.0	55	46	53	68	NNE	0.6	0.0	55	46	53	71	ENE	0.3	0.0	55	46	52	73	SSE	0.6	0.0
6:00	57	51	55	73	N	0.0	0.0	57	51	55	74	N	0.0	0.0	57	51	55	73	WSW	2.2	0.0	56	50	55	78	SSW	2.8	0.0
7:00	57	51	55	80	N	0.0	0.0	57	50	55	84	NE	1.1	0.0	57	50	55	70	SW	1.6	0.0	57	51	55	74	S	2.5	0.0
8:00	57	49	54	73	N	0.9	0.0	57	50	55	71	NE	1.4	0.0	57	50	55	73	SW	0.6	0.0	57	51	55	73	SSW	3.1	0.0
9:00	57	50	55	81	ENE	1.3	0.0	56	49	54	72	ESE	1.8	0.0	56	49	54	72	SE	0.6	0.0	56	49	54	72	S	1.8	0.0
10:00	56	46	55	79	ESE	1.3	0.0	57	46	54	72	E	1.5	0.0	56	47	53	71	SW	1.7	0.0	56	48	54	74	SW	3.6	0.0
11:00	57	45	54	73	S	1.7	0.0	56	46	54	71	NE	2.7	0.0	56	46	53	76	SW	1.9	0.0	57	47	56	85	SW	2.1	0.0
12:00	55	44	53	72	SE	1.3	0.0					ENE	3.0	0.0	56	47	53	75	SW	3.3	0.0	57	47	54	76	SW	2.8	0.0
13:00	57	47	54	76	SW	2.2	0.0	56	46	54	72	NNE	2.7	0.0	57	48	54	73	SW	3.9	0.0	56	47	54	76	S	1.6	0.0
14:00	55	45	53	71	SW	3.3	0.0	57	49	54	73	ENE	2.7	0.0	56	48	53	71	SSW	4.4	0.0	56	47	54	73	S	2.2	0.0
15:00	56	48	54	72	SW	4.7	0.0	57	49	54	72	ENE	2.8	0.0	56	50	55	86	SSW	4.2	0.0	56	48	54	74	S	2.8	0.0
16:00	57	50	55	73	SW	4.4	0.0	56	48	54	73	NNW	3.3	0.0	56	49	54	74	SSW	4.5	0.0	56	49	54	80	S	2.5	0.0
17:00	56	51	55	80	SW	4.1	0.0	55	47	54	77	NNE	3.1	0.0	57	50	55	78	SSW	3.9	0.0	56	48	54	76	SW	3.5	0.0
18:00	56	51	55	83	SSE	2.8	0.0	55	48	53	72	ENE	1.9	0.0	56	49	54	78	SW	3.6	0.0	57	50	56	83	SW	3.6	0.0
19:00	56	51	54	71	SSE	2.2	0.0	56	47	54	81	E	2.1	0.0	55	49	54	77	SW	3.6	0.0	55	50	54	73	SW	3.5	0.0
20:00	59	51	57	75	S	1.9	0.0	59	48	56	74	E	1.1	0.0	59	46	55	70	SW	3.3	0.0	58	46	54	73	WSW	2.7	0.0
21:00	54	46	52	70	SSW	1.5	0.0	54	47	52	74	N	0.0	0.0	53	47	52	73	SSW	3.8	0.0	53	45	51	75	SW	2.2	0.0
22:00	51	42	49	67	SSW	1.1	0.0	52	45	50	67	WNW	2.7	0.0	52	45	50	70	SW	2.2	0.0	52	43	50	68	SSW	1.1	0.0
23:00	50	40	47	64	N	0.0	0.0	50	44	49	72	NW	2.0	0.0	50	43	47	62	SW	1.8	0.0	51	40	49	66	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	56							56							56							56						
$L_{eq,15hr,\ 7\text{-}22h}$			54							54							54							54				
$L_{eq,9hr,\ 22\text{-}7h}$			49							49							50							50				
$L_{eq,16hr,\ 6\text{-}22h}$			54							54							54							54				
$L_{eq,8hr,\ 22\text{-}6h}$			47							48							49							48				
$L_{max,\ 24h}$				83							84							86							85			
Adverse Weather Count	0							1							0							0						

Start Time	Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	49	37	46	67	N	0.0	0.0	51	44	49	68	WSW	4.8	0.0	47	34	44	62	N	0.0	0.0
1:00	47	35	44	66	NNW	0.8	0.0	48	40	45	63	W	4.2	0.0	46	32	43	63	W	2.7	0.0
2:00	46	32	44	66	N	0.0	0.0	46	38	43	61	W	3.3	0.0	45	29	42	63	WNW	3.6	0.0
3:00	46	31	42	60	NE	0.8	0.0	45	38	42	61	W	3.6	0.0	45	32	42	64	W	3.1	0.0
4:00	48	33	44	67	E	1.5	0.0	45	33	43	68	W	2.8	0.0	48	36	45	63	W	3.3	0.0
5:00	51	40	48	70	E	0.6	0.0	47	36	44	66	WSW	2.7	0.0	53	43	50	70	W	3.0	0.0
6:00	54	45	52	73	N	0.0	0.0	52	39	49	76	W	2.5	0.0	55	49	53	76	W	3.0	0.0
7:00	55	46	53	75	N	0.0	0.0	52	42	51	79	W	2.8	0.0	56	49	53	77	W	2.8	0.0
8:00	56	46	53	71	E	1.9	0.0	53	42	51	71	SW	3.1	0.0	57	50	54	75	WSW	3.3	0.0
9:00	56	46	54	75	E	1.6	0.0	54	45	52	71	SW	4.1	0.0	56	49	55	79	WSW	3.9	0.0
10:00	56	48	54	77	NW	2.8	0.0	55	48	53	72	SSW	3.6	0.0	56	48	54	76	WSW	4.4	0.0
11:00	56	48	53	75	NW	3.1	0.0	55	48	53	74	SSW	4.9	0.0	56	47	54	75	WSW	4.7	0.0
12:00	56	49	54	72	N	2.4	0.0	55	48	53	77	SW	4.9	0.0	55	46	54	78	WSW	3.3	0.0
13:00	56	49	54	75	NNE	3.5	0.0					SW	5.6	0.0	55	47	53	76	SSW	3.0	0.0
14:00	56	50	55	83	NNE	4.6	0.0					SW	5.2	0.0	56	47	53	76	SW	4.6	0.0
15:00					N	6.4	0.0	55	48	52	68	SW	4.6	0.0	56	48	54	78	SSW	3.3	0.0
16:00					N	6.7	0.2	55	47	52	73	SW	4.2	0.0	56	48	54	84	SSW	3.8	0.0
17:00					NNW	5.6	0.0	55	48	55	79	SW	4.4	0.0	56	48	54	74	SSW	3.3	0.0
18:00	56	50	55	79	N	1.1	0.0	55	47	53	79	SW	4.1	0.0	55	48	53	76	SSW	3.6	0.0
19:00	55	47	52	76	SW	3.1	0.0	53	46	53	85	SW	3.6	0.0	55	45	52	72	S	1.8	0.0
20:00	53	44	51	77	SW	0.8	0.0	53	47	51	72	SW	3.8	0.0	54	44	51	71	SSW	2.6	0.0
21:00	53	45	51	70	SSW	3.3	0.2	53	45	51	72	S	2.7	0.0	53	44	51	74	S	2.5	0.0
22:00	54	46	51	70	SW	3.9	0.0	51	44	49	65	SSW	2.7	0.0	51	42	48	64	SSW	2.2	0.0
23:00	51	44	49	75	WSW	4.4	0.0	50	40	48	71	S	2.1	0.0	49	37	46	62	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	55							53							55						
$L_{eq,15hr,\ 7\text{-}22h}$			53							52							53				
$L_{eq,9hr,\ 22\text{-}7h}$			47							47							48				
$L_{eq,16hr,\ 6\text{-}22h}$			53							52							53				
$L_{eq,8hr,\ 22\text{-}6h}$			46							47							46				
$L_{max,\ 24h}$				83							85							84			
Adverse Weather Count	3							2							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet — 4 Yonde Ct, Greensborough

SITE ID **4**

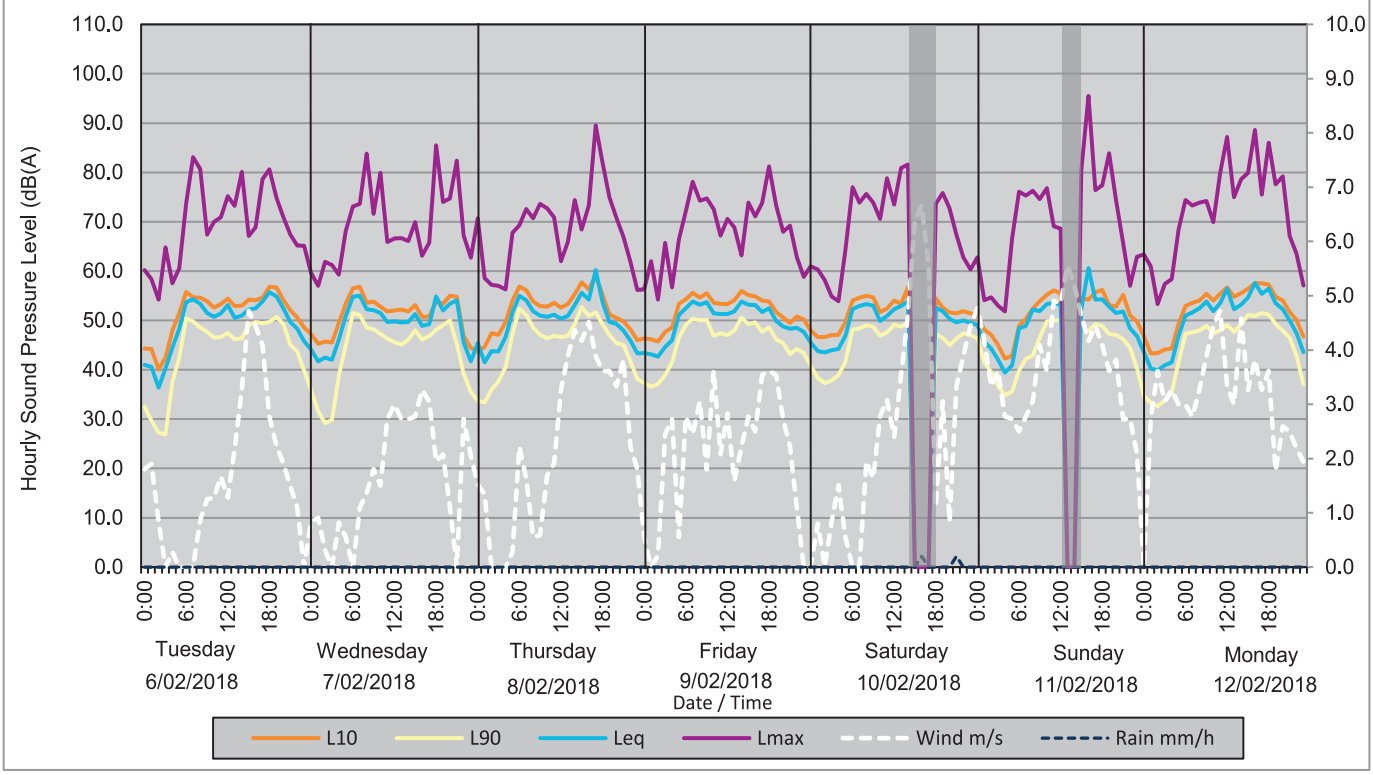
Dominant Road	Greensbrough Bypass	From	6/02/2018	Address	4 Yonde Ct
18-hr Traffic Flow	-	To	13/02/2018	Suburb	Greensborough
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Free Field	Longitude	145° 5'51.41"E
Distance to Road (m)	115	Inst. Serial #	175537	Latitude	37°41'28.89"S
% of H.V.	-	Operator	LE	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	6/02	7/02	8/02	9/02	10/02	11/02	12/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**53**	54 dBA	52 dBA	53 dBA	53 dBA	53 dBA	53 dBA	54 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**53**	53 dBA	52 dBA	54 dBA	52 dBA	52 dBA	54 dBA	54 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**53**	53 dBA	52 dBA	54 dBA	52 dBA	52 dBA	54 dBA	54 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**46**	44 dBA	46 dBA	46 dBA	46 dBA	46 dBA	47 dBA	45 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**47**	47 dBA	49 dBA	49 dBA	47 dBA	47 dBA	47 dBA	46 dBA

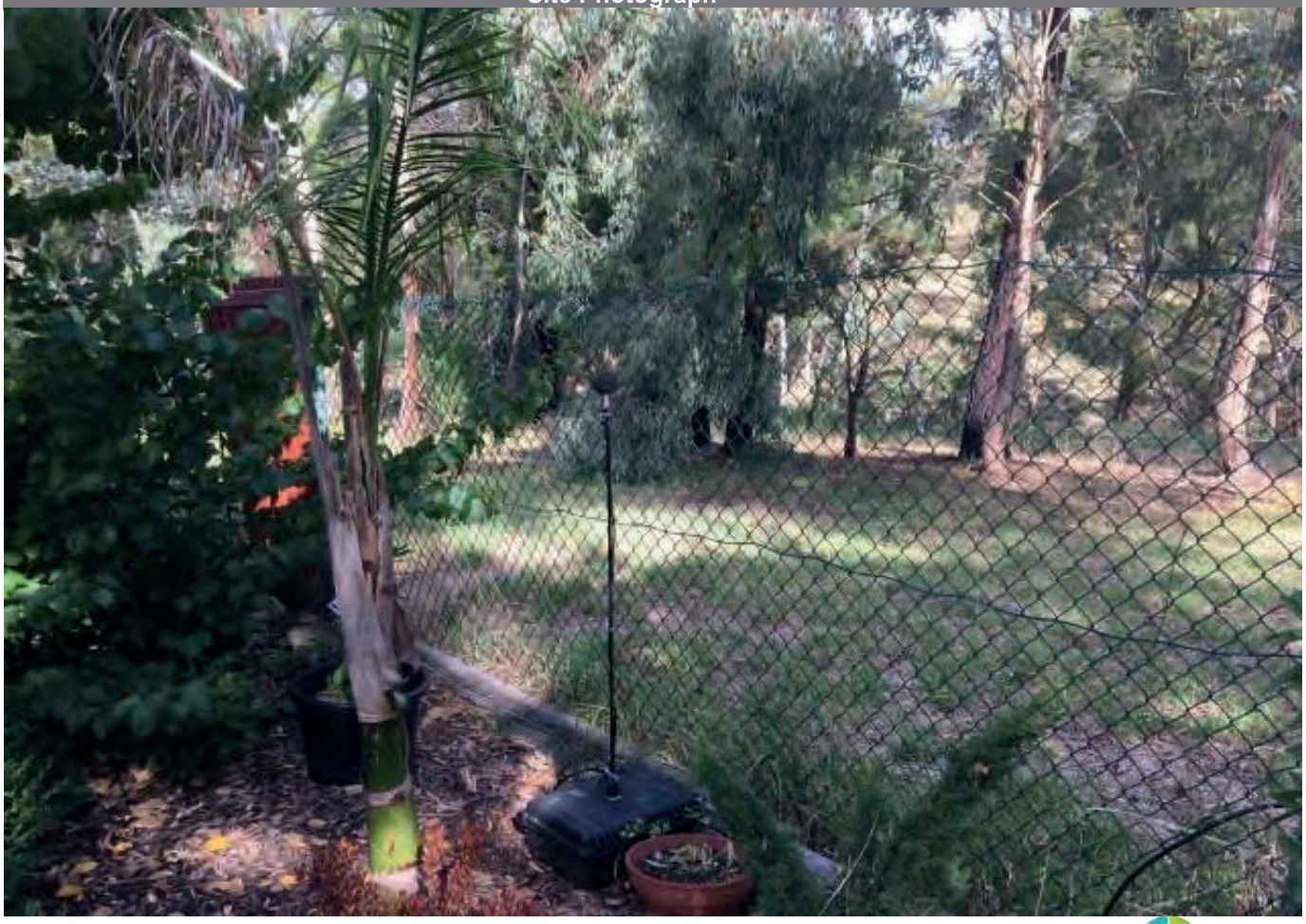
Site Zoom

Site Overview

Site Noise and Weather Graphical Analysis



Site Photograph



Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Tuesday 06/02/2018							Wednesday 07/02/2018							Thursday 08/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	44	33	41	60	WNW	1.8	0.0	47	36	44	60	SSW	0.8	0.0	44	34	45	71	N	1.5	0.0
1:00	44	30	41	58	W	1.9	0.0	45	32	42	57	ENE	0.9	0.0	45	33	42	59	N	1.3	0.0
2:00	40	27	36	54	NW	0.8	0.0	46	29	43	62	N	0.3	0.0	47	36	44	57	N	0.0	0.0
3:00	43	27	40	65	N	0.0	0.0	46	30	42	61	N	0.0	0.0	47	38	44	57	N	0.0	0.0
4:00	48	38	45	58	NW	0.3	0.0	50	39	46	59	NNE	0.8	0.0	50	41	47	56	N	0.0	0.0
5:00	51	43	48	61	N	0.0	0.0	53	45	51	68	NNE	0.6	0.0	54	47	52	68	ENE	0.3	0.0
6:00	56	50	54	74	N	0.0	0.0	57	52	55	73	N	0.0	0.0	57	52	55	69	WSW	2.2	0.0
7:00	55	50	54	83	N	0.0	0.0	57	51	55	74	NE	1.1	0.0	56	51	54	73	SW	1.6	0.0
8:00	55	49	53	81	N	0.9	0.0	54	49	52	84	NE	1.4	0.0	54	49	52	71	SW	0.6	0.0
9:00	54	48	52	67	ENE	1.3	0.0	54	48	52	72	ESE	1.8	0.0	53	47	51	74	SE	0.6	0.0
10:00	53	47	51	70	ESE	1.3	0.0	53	47	52	80	E	1.5	0.0	53	46	51	73	SW	1.7	0.0
11:00	53	47	51	71	S	1.7	0.0	52	46	50	66	NE	2.7	0.0	54	47	51	71	SW	1.9	0.0
12:00	54	48	53	75	SE	1.3	0.0	52	46	50	67	ENE	3.0	0.0	53	47	50	62	SW	3.3	0.0
13:00	53	46	51	73	SW	2.2	0.0	52	45	50	67	NNE	2.7	0.0	53	47	51	66	SW	3.9	0.0
14:00	53	46	51	80	SW	3.3	0.0	52	46	50	66	ENE	2.7	0.0	55	49	53	74	SSW	4.4	0.0
15:00	54	49	52	67	SW	4.7	0.0	53	48	51	70	ENE	2.8	0.0	58	53	56	68	SSW	4.2	0.0
16:00	54	50	53	69	SW	4.4	0.0	51	46	49	63	NNW	3.3	0.0	56	51	54	73	SSW	4.5	0.0
17:00	55	49	54	79	SW	4.1	0.0	51	47	49	66	NNE	3.1	0.0	59	52	60	90	SSW	3.9	0.0
18:00	57	50	56	81	SSE	2.8	0.0	54	48	55	86	ENE	1.9	0.0	55	49	54	82	SW	3.6	0.0
19:00	57	51	55	75	SSE	2.2	0.0	53	49	52	74	E	2.1	0.0	51	47	50	75	SW	3.6	0.0
20:00	54	49	52	71	S	1.9	0.0	55	50	53	75	E	1.1	0.0	51	45	49	71	SW	3.3	0.0
21:00	52	45	50	67	SSW	1.5	0.0	55	45	54	82	N	0.0	0.0	50	45	48	67	SSW	3.8	0.0
22:00	51	44	48	65	SSW	1.1	0.0	47	39	46	67	WNW	2.7	0.0	48	42	46	62	SW	2.2	0.0
23:00	49	40	46	65	N	0.0	0.0	44	36	42	63	NW	2.0	0.0	46	38	43	56	SW	1.8	0.0
$L_{10,18hr,\ 6\text{-}24h}$	54							52							53						
$L_{eq,15hr,\ 7\text{-}22h}$			53							52							54				
$L_{eq,9hr,\ 22\text{-}7h}$			47							49							49				
$L_{eq,16hr,\ 6\text{-}22h}$			53							52							54				
$L_{eq,8hr,\ 22\text{-}6h}$			44							46							46				
$L_{max,\ 24h}$				83							86							90			
Adverse Weather Count	0							0							0						

Start Time	Friday 09/02/2018							Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	46	37	43	56	SW	0.6	0.0	48	41	46	61	N	0.0	0.0	51	46	49	63	WSW	4.8	0.0	47	35	44	63	N	0.0	0.0
1:00	46	37	43	62	N	0.0	0.0	47	38	44	60	NNW	0.8	0.0	48	42	46	54	W	4.2	0.0	43	33	40	61	W	2.7	0.0
2:00	46	37	43	54	NNW	0.2	0.0	47	37	44	58	N	0.0	0.0	47	40	44	55	W	3.3	0.0	43	33	40	53	WNW	3.6	0.0
3:00	48	39	45	66	SW	2.5	0.0	47	38	44	55	NE	0.8	0.0	45	37	42	53	W	3.6	0.0	44	34	41	57	W	3.1	0.0
4:00	49	42	46	57	SSW	2.7	0.0	47	39	44	54	E	1.5	0.0	42	35	39	52	W	2.8	0.0	44	35	42	58	W	3.3	0.0
5:00	53	47	51	66	SSE	0.6	0.0	50	42	47	64	E	0.6	0.0	43	36	41	67	WSW	2.7	0.0	49	42	47	68	W	3.0	0.0
6:00	54	49	53	72	SSW	2.8	0.0	54	48	52	77	N	0.0	0.0	49	40	48	76	W	2.5	0.0	53	47	51	74	W	3.0	0.0
7:00	56	50	54	78	S	2.5	0.0	55	48	53	74	N	0.0	0.0	50	42	49	75	W	2.8	0.0	54	48	52	73	W	2.8	0.0
8:00	55	50	53	74	SSW	3.1	0.0	55	49	53	76	E	1.9	0.0	52	43	52	76	SW	3.1	0.0	54	48	53	74	WSW	3.3	0.0
9:00	56	50	54	75	S	1.8	0.0	55	49	53	74	E	1.6	0.0	54	47	52	75	SW	4.1	0.0	55	49	54	74	WSW	3.9	0.0
10:00	54	47	51	73	SW	3.6	0.0	52	47	50	71	NW	2.8	0.0	55	50	53	77	SSW	3.6	0.0	54	47	52	70	WSW	4.4	0.0
11:00	53	47	51	67	SW	2.1	0.0	52	48	51	79	NW	3.1	0.0	56	50	54	69	SSW	4.9	0.0	55	48	54	80	WSW	4.7	0.0
12:00	53	47	51	71	SW	2.8	0.0	54	49	52	74	N	2.4	0.0	56	50	53	69	SW	4.9	0.0	57	49	56	87	WSW	3.3	0.0
13:00	54	48	52	69	S	1.6	0.0	53	49	53	81	NNE	3.5	0.0					SW	5.6	0.0	55	48	52	75	SSW	3.0	0.0
14:00	56	51	54	63	S	2.2	0.0	57	50	54	82	NNE	4.6	0.0					SW	5.2	0.0	56	49	53	79	SW	4.6	0.0
15:00	55	49	53	74	S	2.8	0.0					N	6.4	0.0	55	49	52	80	SW	4.6	0.0	56	51	55	80	SSW	3.3	0.0
16:00	55	50	53	71	S	2.5	0.0					N	6.7	0.2	54	48	61	96	SW	4.2	0.0	58	51	58	89	SSW	3.8	0.0
17:00	54	48	52	74	SW	3.5	0.0					NNW	5.6	0.0	56	49	54	76	SW	4.4	0.0	58	52	55	76	SSW	3.3	0.0
18:00	54	49	53	81	SW	3.6	0.0	55	47	53	74	N	1.1	0.0	56	49	54	77	SW	4.1	0.0	57	51	56	86	SSW	3.6	0.0
19:00	52	46	50	73	SW	3.5	0.0	53	47	52	76	SW	3.1	0.0	53	47	53	84	SW	3.6	0.0	55	49	54	78	S	1.8	0.0
20:00	51	45	49	68	WSW	2.7	0.0	52	45	50	73	SW	0.8	0.0	53	47	52	74	SW	3.8	0.0	54	48	52	79	SSW	2.6	0.0
21:00	50	43	48	69	SW	2.2	0.0	51	46	50	67	SSW	3.3	0.2	55	46	52	66	S	2.7	0.0	52	47	50	67	S	2.5	0.0
22:00	51	44	49	63	SSW	1.1	0.0	52	47	50	63	SW	3.9	0.0	51	44	48	57	SSW	2.7	0.0	50	43	47	64	SSW	2.2	0.0
23:00	50	43	48	59	N	0.0	0.0	51	47	50	60	WSW	4.4	0.0	50	40	47	63	S	2.1	0.0	47	37	44	57	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	53							53							53							54						
$L_{eq,15hr,\ 7\text{-}22h}$			52							52							54							54				
$L_{eq,9hr,\ 22\text{-}7h}$			47							47							47							46				
$L_{eq,16hr,\ 6\text{-}22h}$			52							52							54							54				
$L_{eq,8hr,\ 22\text{-}6h}$			46							46							47							45				
$L_{max,\ 24h}$				81							82							96							89			
Adverse Weather Count	0							3							2							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet

77 Pinehills Dr, Greensborough

SITE ID 5

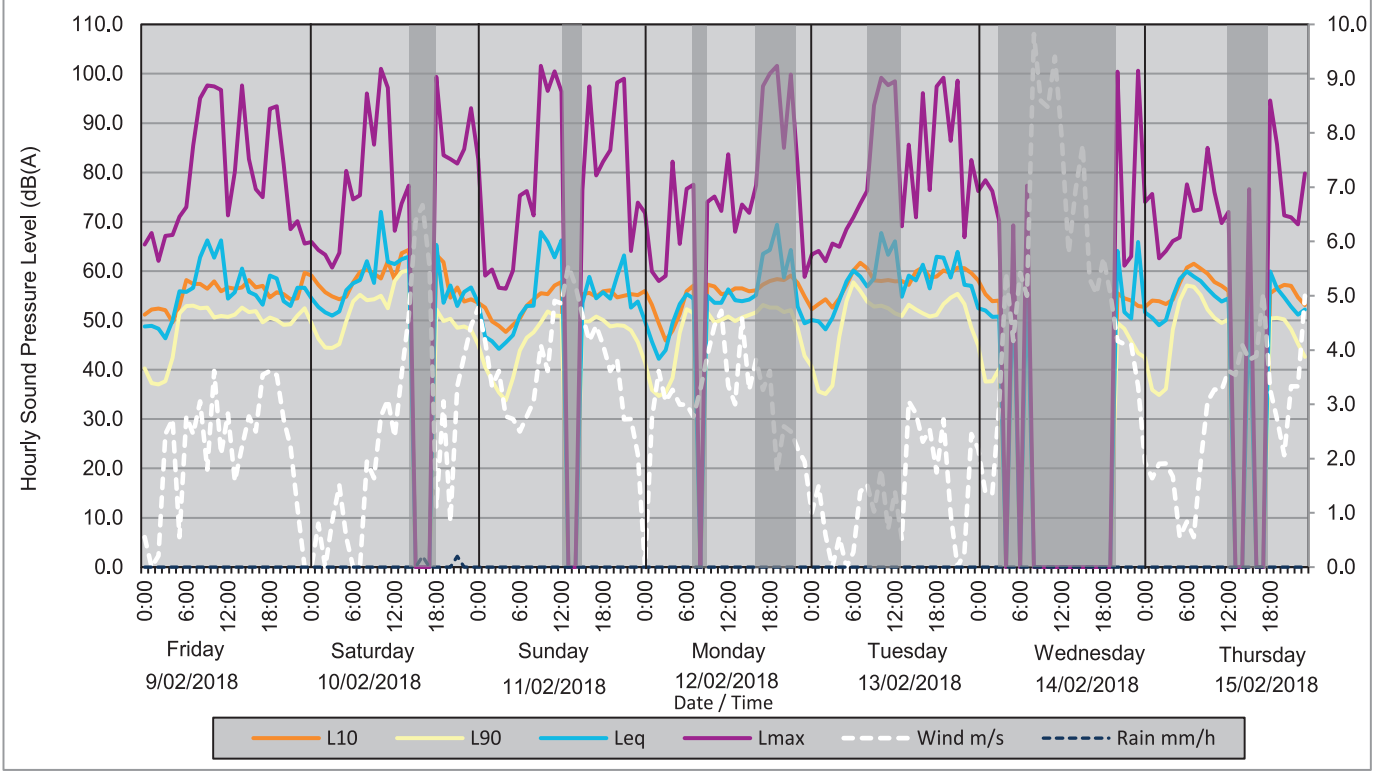
Dominant Road	Greensborough Bypass	From	9/02/2018	Address	77 Pinehills Dr
18-hr Traffic Flow	-	To	16/02/2018	Suburb	Greensborough
Road Surface	Stone Seal	Mic. Height (m)	2	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'54.67"E
Distance to Road (m)	56	Inst. Serial #	354110	Latitude	37°41'35.04"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	9/02	10/02	11/02	12/02	13/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**57**	57 dBA	59 dBA	55 dBA	57 dBA	59 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**62**	61 dBA	63 dBA	62 dBA	61 dBA	62 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**62**	60 dBA	64 dBA	62 dBA	61 dBA	62 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**52**	51 dBA	54 dBA	52 dBA	51 dBA	53 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**53**	52 dBA	55 dBA	52 dBA	51 dBA	55 dBA

Site Zoom

Site Overview

Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Friday 09/02/2018							Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	51	40	49	65	SW	0.6	0.0	59	49	55	66	N	0.0	0.0	54	45	54	83	WSW	4.8	0.0	56	42	50	72	N	0.0	0.0
1:00	52	37	49	68	N	0.0	0.0	57	46	53	64	NNW	0.8	0.0	53	41	47	59	W	4.2	0.0	53	36	46	60	W	2.7	0.0
2:00	52	37	48	62	NNW	0.2	0.0	56	45	52	63	N	0.0	0.0	50	38	46	60	W	3.3	0.0	49	35	42	58	WNW	3.6	0.0
3:00	52	38	46	67	SW	2.5	0.0	55	44	51	61	NE	0.8	0.0	49	35	44	57	W	3.6	0.0	46	35	44	59	W	3.1	0.0
4:00	50	42	50	67	SSW	2.7	0.0	54	45	52	64	E	1.5	0.0	48	34	46	56	W	2.8	0.0	48	38	50	82	W	3.3	0.0
5:00	53	51	56	71	SSE	0.6	0.0	55	50	56	80	E	0.6	0.0	49	38	47	60	WSW	2.7	0.0	51	48	53	66	W	3.0	0.0
6:00	58	53	56	73	SSW	2.8	0.0	58	54	58	75	N	0.0	0.0	50	44	51	75	W	2.5	0.0	56	52	55	77	W	3.0	0.0
7:00	57	53	57	86	S	2.5	0.0	60	55	58	75	N	0.0	0.0	53	47	53	76	W	2.8	0.0	57	52	55	78	W	2.8	0.0
8:00	57	53	63	95	SSW	3.1	0.0	60	54	62	96	E	1.9	0.0	54	48	53	71	SW	3.1	0.0					WSW	3.3	0.0
9:00	56	53	66	98	S	1.8	0.0	60	54	58	86	E	1.6	0.0	56	50	68	##	SW	4.1	0.0	57	52	55	74	WSW	3.9	0.0
10:00	58	51	63	97	SW	3.6	0.0	59	55	72	##	NW	2.8	0.0	55	52	66	97	SSW	3.6	0.0	57	50	54	75	WSW	4.4	0.0
11:00	56	51	66	97	SW	2.1	0.0	62	53	62	97	NW	3.1	0.0	57	51	63	##	SSW	4.9	0.0	55	50	54	72	WSW	4.7	0.0
12:00	57	51	54	71	SW	2.8	0.0	58	58	61	68	N	2.4	0.0	58	51	66	96	SW	4.9	0.0	56	51	56	84	WSW	3.3	0.0
13:00	56	51	56	80	S	1.6	0.0	64	60	62	74	NNE	3.5	0.0					SW	5.6	0.0	57	50	54	68	SSW	3.0	0.0
14:00	57	53	61	98	S	2.2	0.0	64	60	63	77	NNE	4.6	0.0					SW	5.2	0.0	57	51	54	74	SW	4.6	0.0
15:00	58	52	56	83	S	2.8	0.0					N	6.4	0.0	55	50	54	76	SW	4.6	0.0	56	51	54	72	SSW	3.3	0.0
16:00	57	52	55	77	S	2.5	0.0					N	6.7	0.2	56	50	59	97	SW	4.2	0.0	56	52	55	77	SSW	3.8	0.0
17:00	57	50	53	75	SW	3.5	0.0					NNW	5.6	0.0	55	51	55	79	SW	4.4	0.0	57	53	64	98	SSW	3.3	0.0
18:00	55	51	59	93	SW	3.6	0.0	63	52	65	99	N	1.1	0.0	56	50	56	82	SW	4.1	0.0	58	53	64	##	SSW	3.6	0.0
19:00	56	50	59	93	SW	3.5	0.0	62	50	54	84	SW	3.1	0.0	56	49	54	85	SW	3.6	0.0	58	53	69	##	S	1.8	0.0
20:00	55	49	54	82	WSW	2.7	0.0	55	50	57	83	SW	0.8	0.0	55	49	59	98	SW	3.8	0.0	58	52	59	85	SSW	2.6	0.0
21:00	54	49	53	69	SW	2.2	0.0	57	49	53	82	SSW	3.3	0.2	55	49	63	99	S	2.7	0.0	59	52	64	##	S	2.5	0.0
22:00	55	51	57	70	SSW	1.1	0.0	54	49	56	85	SW	3.9	0.0	55	48	53	64	SSW	2.7	0.0	58	48	53	81	SSW	2.2	0.0
23:00	60	53	57	66	N	0.0	0.0	54	48	57	93	WSW	4.4	0.0	55	46	54	74	S	2.1	0.0	55	43	49	59	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	57							59							55							57						
$L_{eq,15hr,\ 7\text{-}22h}$			61							63							62							61				
$L_{eq,9hr,\ 22\text{-}7h}$			52							55							52							51				
$L_{eq,16hr,\ 6\text{-}22h}$			60							64							62							61				
$L_{eq,8hr,\ 22\text{-}6h}$			51							54							52							51				
$L_{max,\ 24h}$				98							##							##							##			
Adverse Weather Count	0							3							2							1						

Start Time	Tuesday 13/02/2018							Wednesday 14/02/2018							Thursday 15/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	52	41	50	63	SSE	1.0	0.0	58	45	53	76	NNE	2.2	0.0	53	43	52	74	WNW	1.9	0.0
1:00	53	36	50	64	S	1.5	0.0	55	38	52	78	N	1.4	0.0	54	36	51	76	NW	1.6	0.0
2:00	54	35	48	62	N	0.6	0.0	54	38	51	76	ENE	1.4	0.0	54	35	49	63	NW	1.9	0.0
3:00	53	37	51	66	N	0.0	0.0	54	40	51	70	N	3.0	0.0	53	36	50	64	N	1.9	0.0
4:00	55	47	54	65	NNE	0.6	0.0					N	5.4	0.0	54	48	55	66	NNE	1.7	0.0
5:00	57	54	58	69	N	0.0	0.0	59	55	59	69	N	4.2	0.0	58	54	58	67	E	0.6	0.0
6:00	60	58	60	71	N	0.3	0.0					N	5.4	0.0	61	57	60	78	ENE	0.8	0.0
7:00	62	56	59	74	N	1.4	0.0	62	57	60	77	NNW	5.0	0.0	62	57	59	72	E	0.6	0.0
8:00	61	54	57	76	N	1.5	0.0					W	9.8	0.0	61	55	58	73	N	1.9	0.0
9:00	58	53	59	94	NNE	1.0	0.0					WSW	8.6	0.0	60	52	56	85	WNW	3.1	0.0
10:00	58	53	68	99	E	1.8	0.0					W	8.5	0.0	58	51	55	76	NW	3.3	0.0
11:00	58	53	63	98	NNE	0.7	0.0					W	9.4	0.0	57	50	54	70	WNW	3.3	0.0
12:00	58	51	66	99	S	1.4	0.0					W	7.9	0.0	56	50	55	72	WNW	3.6	0.0
13:00	58	51	55	69	NE	0.5	0.0					W	5.8	0.0					NW	3.5	0.0
14:00	57	53	59	86	ESE	3.1	0.0					W	6.9	0.0					SW	4.1	0.0
15:00	60	52	58	71	NE	2.8	0.0					WSW	7.8	0.0	56	51	55	77	SW	3.8	0.0
16:00	61	51	61	96	NNE	2.3	0.0					WSW	5.3	0.0					SW	3.9	0.0
17:00	59	51	57	76	N	2.5	0.0					WSW	5.0	0.0					SW	5.0	0.0
18:00	59	51	63	97	NNW	1.7	0.0					SSW	5.7	0.0	56	50	60	95	SW	3.3	0.0
19:00	60	53	63	99	NNW	2.7	0.0					SSW	5.0	0.0	57	51	57	86	SSW	2.7	0.0
20:00	60	55	59	86	NNW	1.0	0.0	56	50	64	##	SW	4.2	0.0	57	50	55	71	SW	2.1	0.0
21:00	61	55	64	99	N	0.0	0.0	55	48	52	61	WSW	4.1	0.0	57	48	53	71	SW	3.3	0.0
22:00	61	53	57	67	NE	0.3	0.0	54	46	50	63	WSW	4.1	0.0	55	45	51	70	WSW	3.3	0.0
23:00	60	49	57	83	N	2.5	0.0	53	43	66	##	W	3.3	0.0	53	43	52	80	WSW	5.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	59																				
$L_{eq,15hr,\ 7\text{-}22h}$			62																		
$L_{eq,9hr,\ 22\text{-}7h}$			55																		
$L_{eq,16hr,\ 6\text{-}22h}$			62																		
$L_{eq,8hr,\ 22\text{-}6h}$			53																		
$L_{max,\ 24h}$				99																	
Adverse Weather Count	0							14							4						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EASTLINK PROJECT

Noise Monitoring Data Sheet

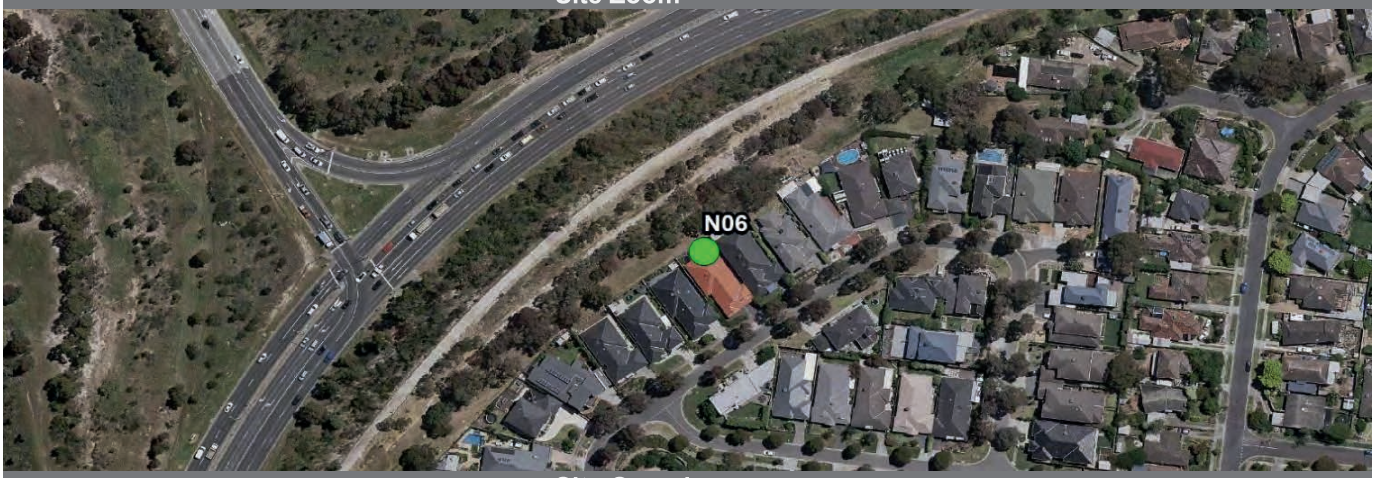
15 Banfield Tce, Greensborough

SITE ID
6

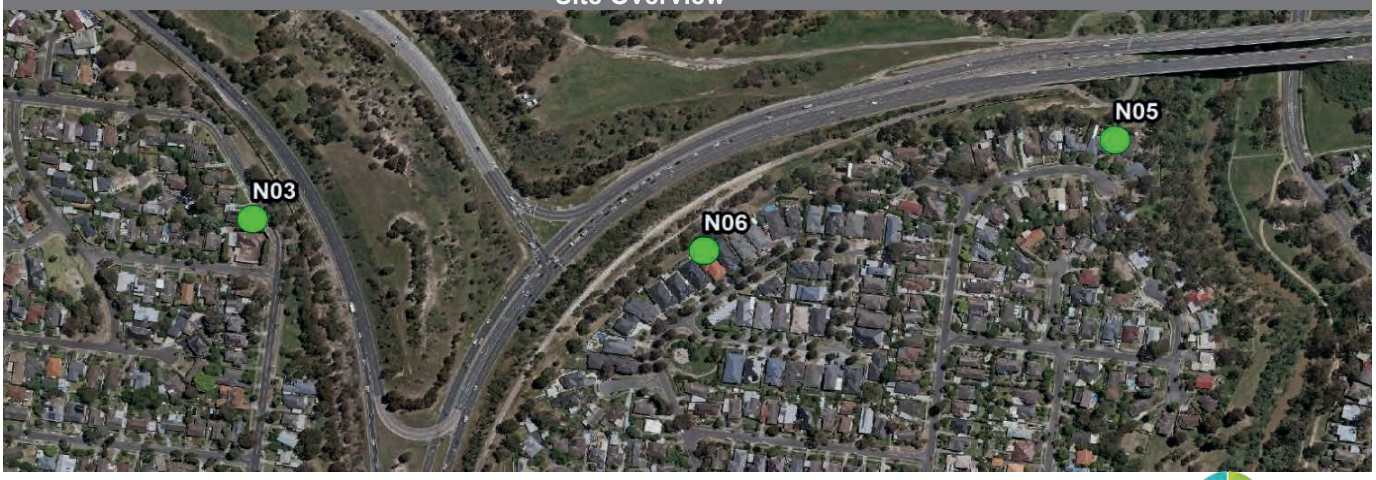
Dominant Road	Greensborough Bypass	From	6/02/2018	Address	15 Banfield Tce
18-hr Traffic Flow	-	To	16/02/2018	Suburb	Greensborough
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'41.10"E
Distance to Road (m)	65	Inst. Serial #	87815E	Latitude	37°41'37.94"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	6/02	7/02	8/02	9/02	10/02	12/02	13/02	15/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**50**	49 dBA	50 dBA	50 dBA	51 dBA	50 dBA	50 dBA	49 dBA	50 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**50**	48 dBA	49 dBA	50 dBA	51 dBA	51 dBA	50 dBA	49 dBA	50 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**50**	48 dBA	49 dBA	50 dBA	51 dBA	51 dBA	50 dBA	48 dBA	50 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**44**	43 dBA	44 dBA	45 dBA	42 dBA	46 dBA	43 dBA	42 dBA	45 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**45**	44 dBA	45 dBA	46 dBA	42 dBA	46 dBA	44 dBA	43 dBA	46 dBA

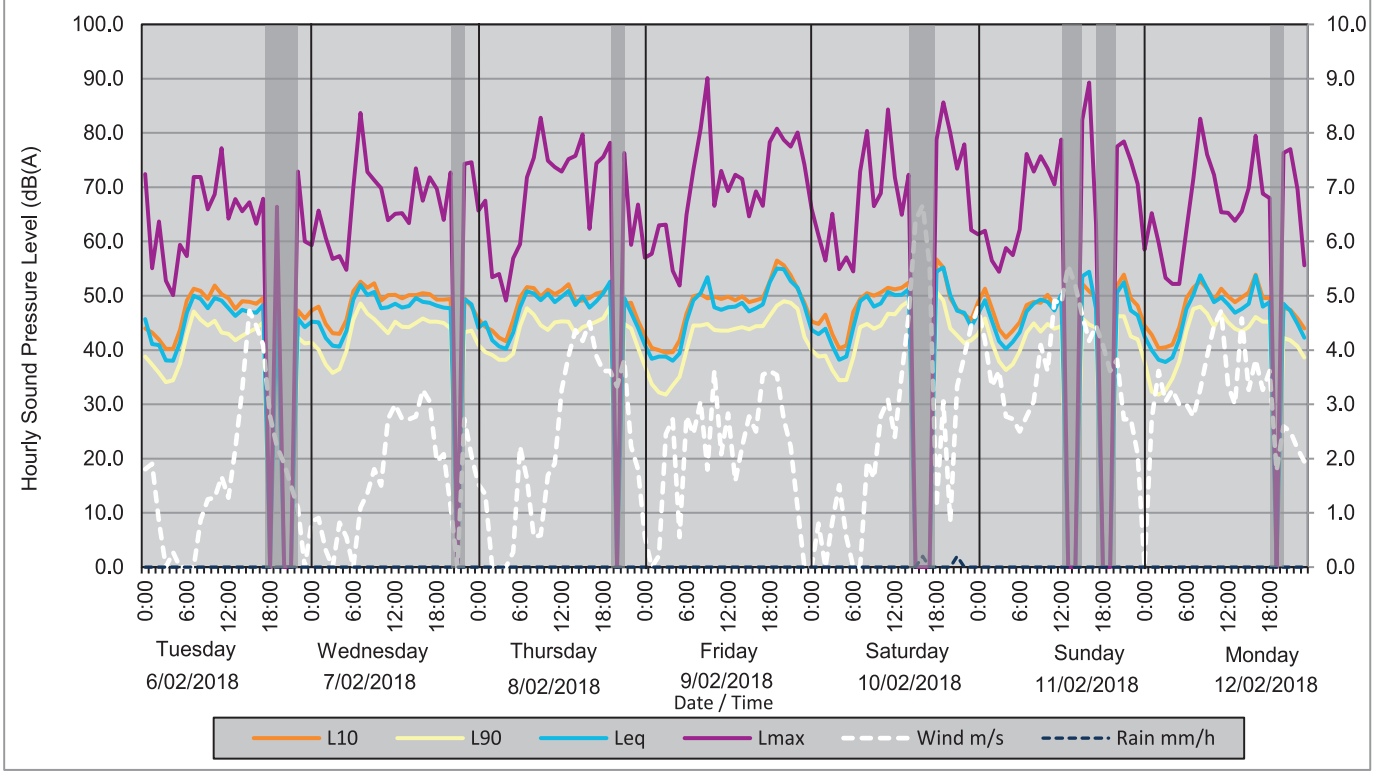
Site Zoom



Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Tuesday 06/02/2018							Wednesday 07/02/2018							Thursday 08/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	44	39	46	72	WNW	1.8	0.0	47	41	45	59	SSW	0.8	0.0	46	41	44	66	N	1.5	0.0
1:00	43	37	41	55	W	1.9	0.0	48	40	45	66	ENE	0.9	0.0	44	40	45	68	N	1.3	0.0
2:00	42	36	41	64	NW	0.8	0.0	45	37	42	61	N	0.3	0.0	44	39	42	53	N	0.0	0.0
3:00	40	34	38	53	N	0.0	0.0	43	36	41	57	N	0.0	0.0	42	38	41	54	N	0.0	0.0
4:00	40	34	38	50	NW	0.3	0.0	43	37	41	57	NNE	0.8	0.0	42	38	40	49	N	0.0	0.0
5:00	44	38	41	59	N	0.0	0.0	46	40	44	55	NNE	0.6	0.0	46	39	43	57	ENE	0.3	0.0
6:00	49	43	47	57	N	0.0	0.0	51	46	49	70	N	0.0	0.0	50	44	48	60	WSW	2.2	0.0
7:00	51	47	50	72	N	0.0	0.0	53	49	52	84	NE	1.1	0.0	52	48	51	72	SW	1.6	0.0
8:00	51	46	49	72	N	0.9	0.0	52	47	50	73	NE	1.4	0.0	51	47	50	75	SW	0.6	0.0
9:00	49	45	48	66	ENE	1.3	0.0	52	46	51	71	ESE	1.8	0.0	50	45	49	83	SE	0.6	0.0
10:00	52	45	50	69	ESE	1.3	0.0	49	44	48	70	E	1.5	0.0	51	44	50	75	SW	1.7	0.0
11:00	50	43	49	77	S	1.7	0.0	50	43	48	64	NE	2.7	0.0	50	45	49	74	SW	1.9	0.0
12:00	50	43	48	64	SE	1.3	0.0	50	45	49	65	ENE	3.0	0.0	51	45	50	73	SW	3.3	0.0
13:00	48	42	46	68	SW	2.2	0.0	50	44	48	65	NNE	2.7	0.0	52	45	51	75	SW	3.9	0.0
14:00	49	43	47	66	SW	3.3	0.0	50	44	48	63	ENE	2.7	0.0	49	43	48	76	SSW	4.4	0.0
15:00	49	43	47	67	SW	4.7	0.0	50	45	50	74	ENE	2.8	0.0	49	44	50	80	SSW	4.2	0.0
16:00	49	44	47	63	SW	4.4	0.0	51	46	49	68	NNW	3.3	0.0	50	45	48	62	SSW	4.5	0.0
17:00	50	45	48	68	SW	4.1	0.0	50	45	49	72	NNE	3.1	0.0	50	45	49	74	SSW	3.9	0.0
18:00					SSE	2.8	0.0	49	45	48	70	ENE	1.9	0.0	51	46	51	76	SW	3.6	0.0
19:00	50	46	49	66	SSE	2.2	0.0	49	45	48	64	E	2.1	0.0	52	48	53	78	SW	3.6	0.0
20:00					S	1.9	0.0	49	44	48	73	E	1.1	0.0					SW	3.3	0.0
21:00					SSW	1.5	0.0					N	0.0	0.0	49	45	50	76	SSW	3.8	0.0
22:00	47	42	46	73	SSW	1.1	0.0	50	43	49	74	WNW	2.7	0.0	49	44	47	59	SW	2.2	0.0
23:00	46	41	44	60	N	0.0	0.0	48	44	48	75	NW	2.0	0.0	45	40	44	67	SW	1.8	0.0
$L_{10,18hr,\ 6\text{-}24h}$	49							50							50						
$L_{eq,15hr,\ 7\text{-}22h}$			48							49							50				
$L_{eq,9hr,\ 22\text{-}7h}$			44							45							46				
$L_{eq,16hr,\ 6\text{-}22h}$			48							49							50				
$L_{eq,8hr,\ 22\text{-}6h}$			43							44							45				
$L_{max,\ 24h}$				77							84							83			
Adverse Weather Count	3							1							1						

Start Time	Friday 09/02/2018							Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	43	37	41	57	SW	0.6	0.0	45	40	44	66	N	0.0	0.0	49	43	47	61	WSW	4.8	0.0	45	38	43	59	N	0.0	0.0
1:00	40	34	38	58	N	0.0	0.0	45	39	43	61	NNW	0.8	0.0	51	46	49	62	W	4.2	0.0	43	32	40	65	W	2.7	0.0
2:00	40	32	39	63	NNW	0.2	0.0	47	39	44	57	N	0.0	0.0	48	41	45	57	W	3.3	0.0	40	32	38	60	WNW	3.6	0.0
3:00	40	32	39	63	SW	2.5	0.0	43	36	41	65	NE	0.8	0.0	44	38	42	54	W	3.6	0.0	41	33	38	53	W	3.1	0.0
4:00	40	34	38	55	SSW	2.7	0.0	40	34	38	55	E	1.5	0.0	42	36	40	59	W	2.8	0.0	41	35	39	52	W	3.3	0.0
5:00	42	35	39	52	SSE	0.6	0.0	41	35	39	57	E	0.6	0.0	44	37	42	58	WSW	2.7	0.0	44	38	42	52	W	3.0	0.0
6:00	47	40	45	65	SSW	2.8	0.0	47	39	44	55	N	0.0	0.0	45	40	43	62	W	2.5	0.0	50	44	48	62	W	3.0	0.0
7:00	50	45	49	73	S	2.5	0.0	49	44	49	73	N	0.0	0.0	48	43	47	76	W	2.8	0.0	52	48	50	72	W	2.8	0.0
8:00	50	45	51	81	SSW	3.1	0.0	51	45	50	80	E	1.9	0.0	49	45	49	73	SW	3.1	0.0	53	48	54	83	WSW	3.3	0.0
9:00	50	45	53	90	S	1.8	0.0	50	44	48	67	E	1.6	0.0	49	43	49	76	SW	4.1	0.0	51	47	51	76	WSW	3.9	0.0
10:00	50	44	48	67	SW	3.6	0.0	51	45	49	69	NW	2.8	0.0	50	45	49	74	SSW	3.6	0.0	49	44	49	72	WSW	4.4	0.0
11:00	49	44	47	73	SW	2.1	0.0	52	47	51	84	NW	3.1	0.0	48	44	47	71	SSW	4.9	0.0	51	47	50	65	WSW	4.7	0.0
12:00	50	44	48	69	SW	2.8	0.0	51	47	50	72	N	2.4	0.0	50	44	50	79	SW	4.9	0.0	50	45	48	65	WSW	3.3	0.0
13:00	49	44	48	72	S	1.6	0.0	52	48	50	65	NNE	3.5	0.0					SW	5.6	0.0	49	44	47	64	SSW	3.0	0.0
14:00	50	44	49	72	S	2.2	0.0	52	49	51	72	NNE	4.6	0.0					SW	5.2	0.0	50	43	48	66	SW	4.6	0.0
15:00	49	44	47	65	S	2.8	0.0					N	6.4	0.0	52	46	54	82	SW	4.6	0.0	51	44	49	70	SSW	3.3	0.0
16:00	49	44	48	69	S	2.5	0.0					N	6.7	0.2	51	45	54	89	SW	4.2	0.0	54	46	54	80	SSW	3.8	0.0
17:00	50	44	48	67	SW	3.5	0.0					NNW	5.6	0.0	50	44	48	63	SW	4.4	0.0	50	45	48	69	SSW	3.3	0.0
18:00	53	46	53	78	SW	3.6	0.0	57	51	55	79	N	1.1	0.0					SW	4.1	0.0	50	45	49	68	SSW	3.6	0.0
19:00	57	48	55	81	SW	3.5	0.0	55	49	55	86	SW	3.1	0.0					SW	3.6	0.0					S	1.8	0.0
20:00	56	49	55	79	WSW	2.7	0.0	50	44	50	80	SW	0.8	0.0	52	46	51	78	SW	3.8	0.0	48	42	49	76	SSW	2.6	0.0
21:00	54	49	53	78	SW	2.2	0.0	48	43	47	73	SSW	3.3	0.2	54	46	53	78	S	2.7	0.0	47	42	47	77	S	2.5	0.0
22:00	51	48	52	80	SSW	1.1	0.0	47	41	47	78	SW	3.9	0.0	50	43	47	75	SSW	2.7	0.0	46	41	45	70	SSW	2.2	0.0
23:00	49	42	48	74	N	0.0	0.0	46	42	44	62	WSW	4.4	0.0	48	42	46	71	S	2.1	0.0	44	39	42	56	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	51							50														50						
$L_{eq,15hr,\ 7\text{-}22h}$			51							51														50				
$L_{eq,9hr,\ 22\text{-}7h}$			42							46														44				
$L_{eq,16hr,\ 6\text{-}22h}$			51							51														50				
$L_{eq,8hr,\ 22\text{-}6h}$			42							46														43				
$L_{max,\ 24h}$				90							86														83			
Adverse Weather Count	0							3							4							1						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet — 4 Vincent Ct, Greensborough

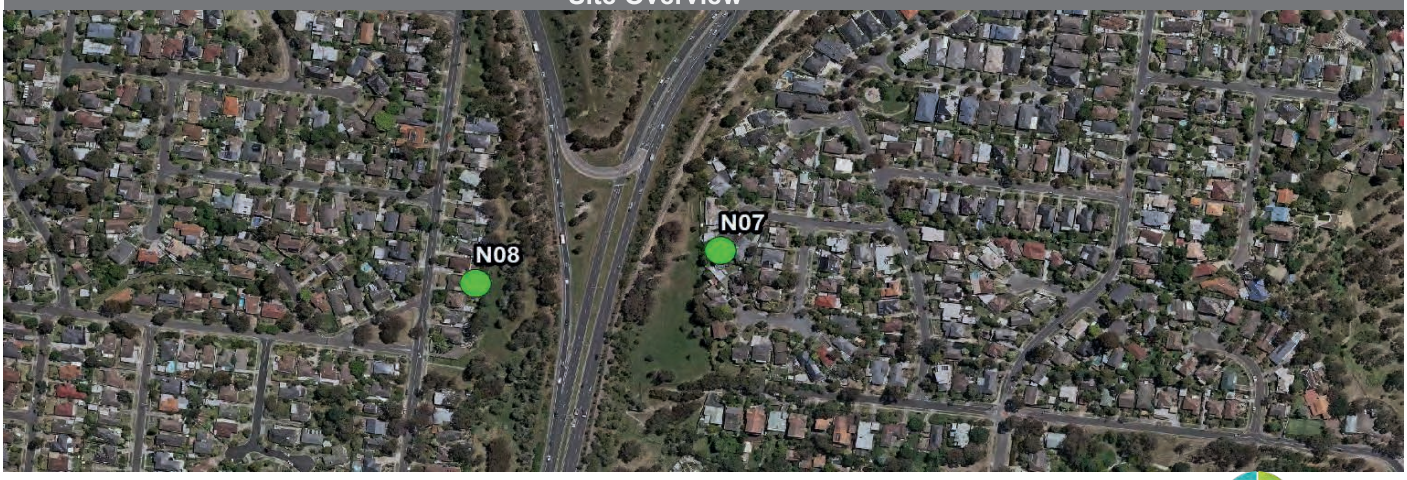
SITE ID **7**

Dominant Road	Greensborough Highway	From	14/04/2018	Address	4 Vincent Ct
18-hr Traffic Flow	-	To	24/04/2018	Suburb	Greensborough
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'35.28"E
Distance to Road (m)	75	Inst. Serial #	164393	Latitude	37°41'45.18"S
% of H.V.	-	Operator	MV	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

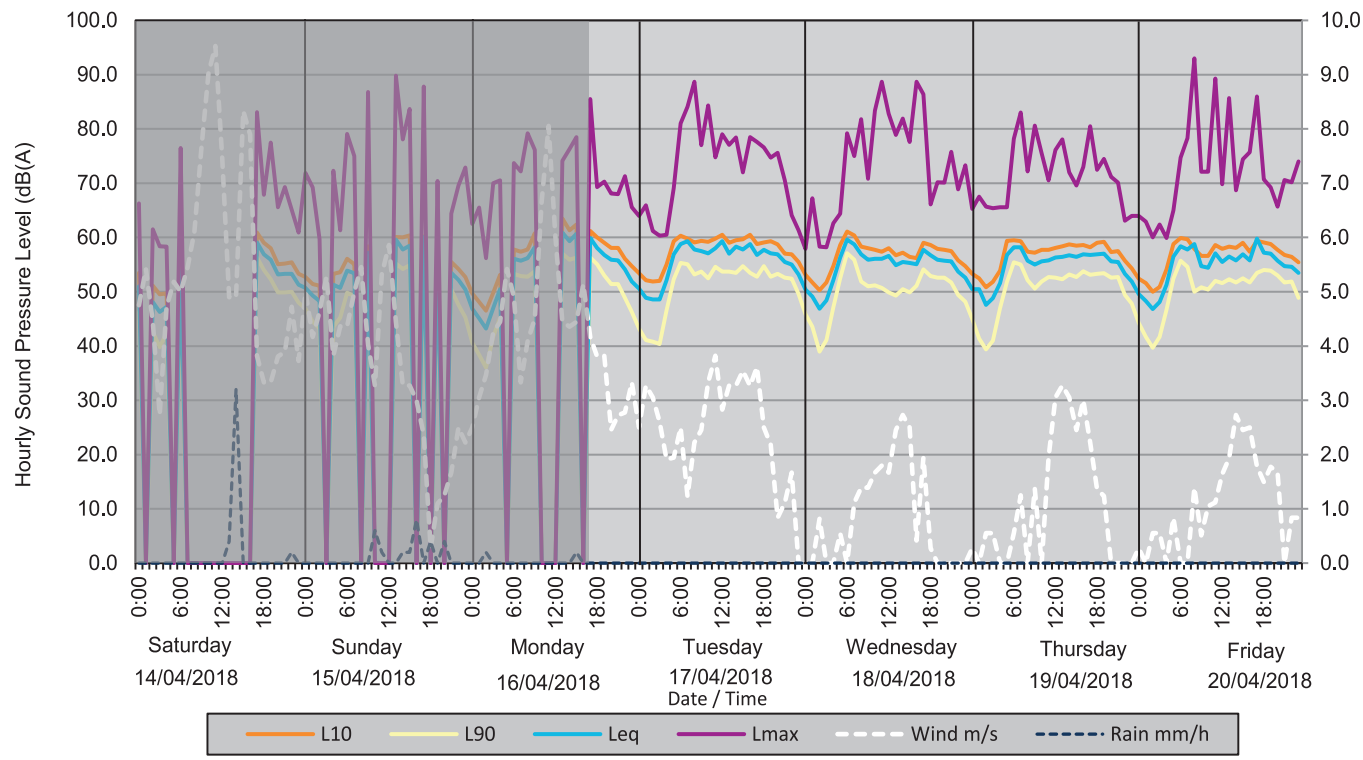
Date	Avg	17/04	18/04	19/04	20/04	21/04
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**58**	59 dBA	58 dBA	58 dBA	58 dBA	56 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**57**	58 dBA	56 dBA	56 dBA	57 dBA	55 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**57**	58 dBA	57 dBA	57 dBA	57 dBA	55 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**52**	52 dBA	53 dBA	52 dBA	52 dBA	50 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**53**	54 dBA	54 dBA	54 dBA	53 dBA	51 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Saturday 14/04/2018							Sunday 15/04/2018							Monday 16/04/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	54	46	51	66	WNW	4.8	0.0	53	47	51	72	NNW	5.0	0.0	50	41	47	63	N	2.5	0.0
1:00					W	5.4	0.0	51	45	49	69	NNW	4.2	0.0	48	38	45	66	N	3.1	0.0
2:00	51	43	48	62	W	4.4	0.0	51	43	48	60	NW	4.6	0.0	47	36	43	56	N	3.5	0.2
3:00	50	40	46	58	NW	2.7	0.0					WNW	5.3	0.0	50	42	47	70	N	4.3	0.0
4:00	50	42	47	58	NNW	4.7	0.0	53	44	51	72	NW	3.8	0.0	53	45	51	71	NNW	4.4	0.0
5:00					N	5.2	0.0	54	45	51	61	NW	4.4	0.0					NNW	5.4	0.0
6:00	56	49	54	77	NNE	5.0	0.0	56	50	54	79	NW	4.4	0.0	58	53	56	74	NNW	4.9	0.0
7:00					ENE	5.4	0.0	55	49	53	75	NNW	5.0	0.0	57	53	56	72	N	3.3	0.0
8:00					ENE	6.1	0.0					N	5.5	0.0	58	53	56	79	NW	4.1	0.0
9:00					NE	7.6	0.0	58	53	57	87	N	4.0	0.0	61	54	58	76	W	4.5	0.0
10:00					NE	9.0	0.0					NW	3.3	0.6					W	6.7	0.0
11:00					NE	9.5	0.0					WNW	5.3	0.2					W	8.1	0.0
12:00					NNE	7.4	0.0					WNW	5.9	0.0					WSW	6.0	0.0
13:00					NW	4.9	0.4	60	55	60	90	WNW	4.4	0.0	64	57	61	74	WSW	4.4	0.0
14:00					NNW	4.9	3.2	60	54	58	78	W	3.3	0.2	61	56	59	76	SW	4.4	0.0
15:00					WNW	8.3	0.0	60	55	59	84	W	3.3	0.2	62	56	61	79	SSW	4.4	0.2
16:00					W	7.9	0.0					W	3.0	0.8					SW	5.1	0.0
17:00	61	56	59	83	W	3.8	0.0	60	56	60	88	W	2.4	0.0	61	56	60	86	SW	4.2	0.0
18:00	59	54	57	68	NW	3.3	0.0					W	0.3	0.4	60	55	58	69	SW	3.8	0.0
19:00	58	52	56	78	NW	3.3	0.0	57	52	55	70	W	1.1	0.0	59	53	57	70	SSW	3.8	0.0
20:00	55	50	53	66	NNW	3.8	0.0					W	1.3	0.4	58	51	56	68	SSW	2.5	0.0
21:00	55	50	53	69	NW	3.9	0.0	56	50	54	64	W	1.7	0.0	58	51	56	68	SW	2.7	0.0
22:00	55	50	53	65	NW	4.7	0.2	54	48	52	70	NW	2.5	0.0	56	49	54	71	WSW	2.8	0.0
23:00	53	48	51	61	N	3.7	0.0	53	45	50	73	NW	2.2	0.0	55	46	52	66	WSW	3.3	0.0
$L_{10,18hr,\ 6\text{-}24h}$																					
$L_{eq,15hr,\ 7\text{-}22h}$																					
$L_{eq,9hr,\ 22\text{-}7h}$																					
$L_{eq,16hr,\ 6\text{-}22h}$																					
$L_{eq,8hr,\ 22\text{-}6h}$																					
$L_{max,\ 24h}$																					
Adverse Weather Count	12							8							5						

Start Time	Tuesday 17/04/2018							Wednesday 18/04/2018							Thursday 19/04/2018							Friday 20/04/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	53	43	51	64	W	2.5	0.0	53	46	50	58	N	0.0	0.0	53	45	51	65	W	0.3	0.0	52	44	50	64	N	0.3	0.0
1:00	52	41	49	66	WSW	3.3	0.0	52	44	49	67	N	0.0	0.0	53	41	51	68	N	0.0	0.0	52	42	48	63	N	0.0	0.0
2:00	52	41	49	61	WSW	3.1	0.0	50	39	47	58	S	0.8	0.0	51	39	48	66	W	0.6	0.0	50	40	47	60	N	0.6	0.0
3:00	52	40	49	60	WSW	2.6	0.0	52	41	48	58	N	0.0	0.0	52	41	49	65	W	0.6	0.0	51	42	48	62	NNE	0.6	0.0
4:00	55	47	52	61	W	1.9	0.0	55	47	52	63	N	0.0	0.0	54	47	52	66	N	0.0	0.0	54	47	51	60	N	0.0	0.0
5:00	59	52	57	69	W	1.9	0.0	59	53	56	64	S	0.5	0.0	59	52	57	66	N	0.0	0.0	59	52	57	65	N	0.8	0.0
6:00	60	55	59	81	WSW	2.5	0.0	61	57	60	79	N	0.0	0.0	60	55	58	78	W	0.6	0.0	60	56	58	75	N	0.0	0.0
7:00	60	55	59	84	WSW	1.2	0.0	60	56	59	75	SSE	1.1	0.0	59	55	58	83	W	1.3	0.0	60	55	58	78	N	0.0	0.0
8:00	59	53	58	89	S	2.2	0.0	58	52	57	82	SSE	1.4	0.0	57	52	56	72	N	0.0	0.0	58	50	59	93	NE	1.4	0.0
9:00	59	54	58	77	S	2.4	0.0	58	51	56	71	SE	1.4	0.0	57	51	55	81	SSW	1.4	0.0	57	51	55	72	NE	0.5	0.0
10:00	59	53	57	84	SSW	3.3	0.0	58	51	56	83	SE	1.7	0.0	58	52	56	76	N	0.0	0.0	57	50	54	72	NW	1.0	0.0
11:00	60	55	58	75	SW	3.8	0.0	57	51	56	89	ESE	1.8	0.0	58	53	56	71	SW	1.9	0.0	59	52	57	89	S	1.1	0.0
12:00	61	54	59	79	SSW	2.8	0.0	58	50	57	83	E	1.7	0.0	58	53	56	76	SSW	3.1	0.0	58	52	56	70	SW	1.6	0.0
13:00	59	54	57	77	S	3.3	0.0	57	49	55	79	NNE	2.4	0.0	58	52	56	78	SSW	3.3	0.0	58	52	57	86	SSW	1.9	0.0
14:00	60	54	58	78	S	3.3	0.0	57	51	56	82	N	2.7	0.0	59	53	57	72	SW	3.1	0.0	58	52	56	69	SSW	2.7	0.0
15:00	60	55	58	72	SSW	3.5	0.0	56	50	55	78	N	2.5	0.0	59	53	56	70	SW	2.5	0.0	59	53	57	74	S	2.4	0.0
16:00	61	54	59	79	SSW	3.3	0.0	56	51	55	89	SSW	0.4	0.0	59	54	57	73	SW	3.0	0.0	57	52	56	76	S	2.5	0.0
17:00	59	53	57	78	SSW	3.6	0.0	59	54	58	86	WSW	1.9	0.0	58	53	57	81	SSW	2.2	0.0	59	54	60	86	S	1.8	0.0
18:00	59	55	58	77	S	2.5	0.0	59	53	57	66	W	0.3	0.0	59	53	57	73	SSW	1.4	0.0	59	54	57	71	SSW	1.5	0.0
19:00	59	53	57	75	S	2.2	0.0	58	53	56	70	N	0.0	0.0	59	53	57	75	SW	1.2	0.0	59	54	57	69	SW	1.8	0.0
20:00	59	53	57	76	SSW	0.8	0.0	58	53	56	70	N	0.0	0.0	57	53	56	71	N	0.0	0.0	58	53	56	66	SW	1.7	0.0
21:00	57	53	56	71	SW	1.1	0.0	58	52	56	76	N	0.0	0.0	58	53	56	70	N	0.0	0.0	57	52	55	71	N	0.0	0.0
22:00	57	52	55	64	SW	1.7	0.0	56	49	54	69	N	0.0	0.0	56	49	53	63	N	0.0	0.0	56	52	55	70	SW	0.8	0.0
23:00	56	50	53	61	N	0.0	0.0	55	48	53	73	N	0.0	0.0	54	48	52	64	N	0.0	0.0	55	49	54	74	WSW	0.8	0.0
$L_{10,18hr,\ 6\text{-}24h}$	59							58							58							58						
$L_{eq,15hr,\ 7\text{-}22h}$			58							56							56							57				
$L_{eq,9hr,\ 22\text{-}7h}$			54							54							54							53				
$L_{eq,16hr,\ 6\text{-}22h}$			58							57							57							57				
$L_{eq,8hr,\ 22\text{-}6h}$			52							53							52							52				
$L_{max,\ 24h}$				89							89							83							93			
Adverse Weather Count	0							0							0							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet — 90 Sellars St, Watsonia North

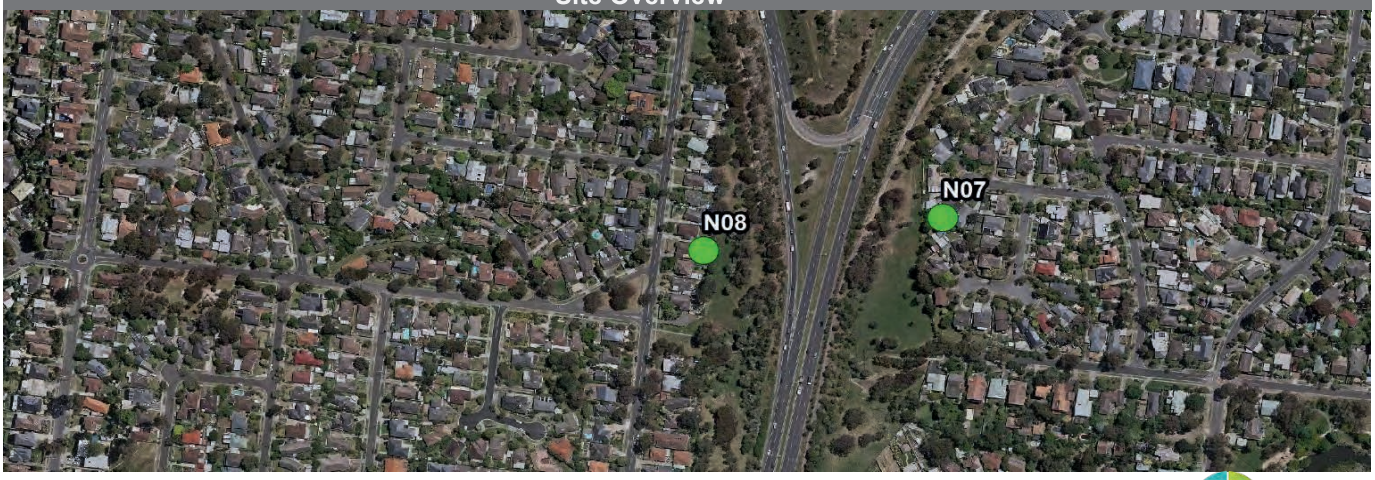
SITE ID **8**

Dominant Road	Greensborough Bypass	From	6/02/2018	Address	90 Sellars St
18-hr Traffic Flow	-	To	13/02/2018	Suburb	Watsonia North
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'27.40"E
Distance to Road (m)	90	Inst. Serial #	164393	Latitude	37°41'45.97"S
% of H.V.	-	Operator	LE	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

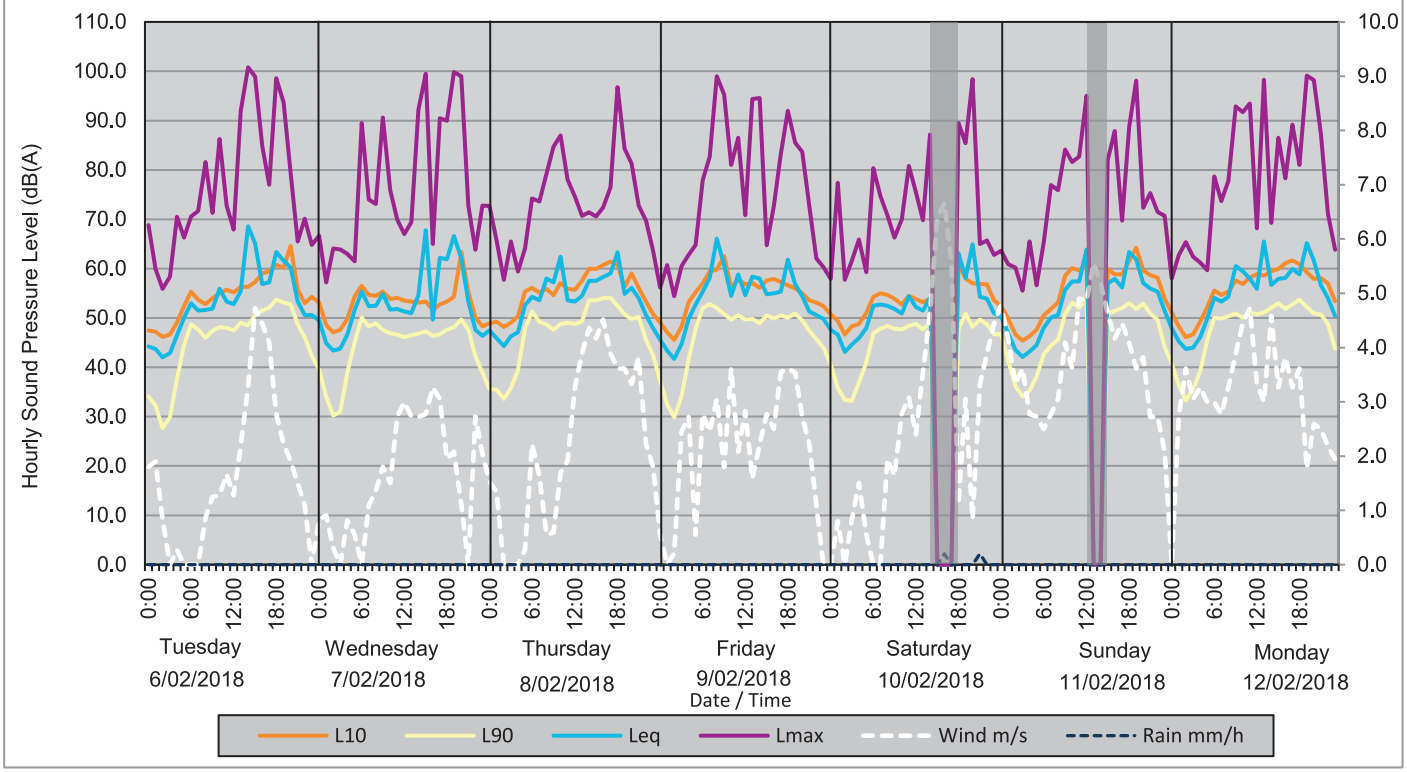
Date	Avg	6/02	7/02	8/02	9/02	10/02	11/02	12/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**57**	57 dBA	54 dBA	57 dBA	57 dBA	55 dBA	58 dBA	58 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**59**	61 dBA	60 dBA	58 dBA	59 dBA	58 dBA	59 dBA	60 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**59**	61 dBA	60 dBA	58 dBA	59 dBA	58 dBA	59 dBA	60 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**48**	47 dBA	49 dBA	48 dBA	48 dBA	48 dBA	49 dBA	50 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**49**	48 dBA	50 dBA	49 dBA	50 dBA	49 dBA	49 dBA	51 dBA

Site Zoom

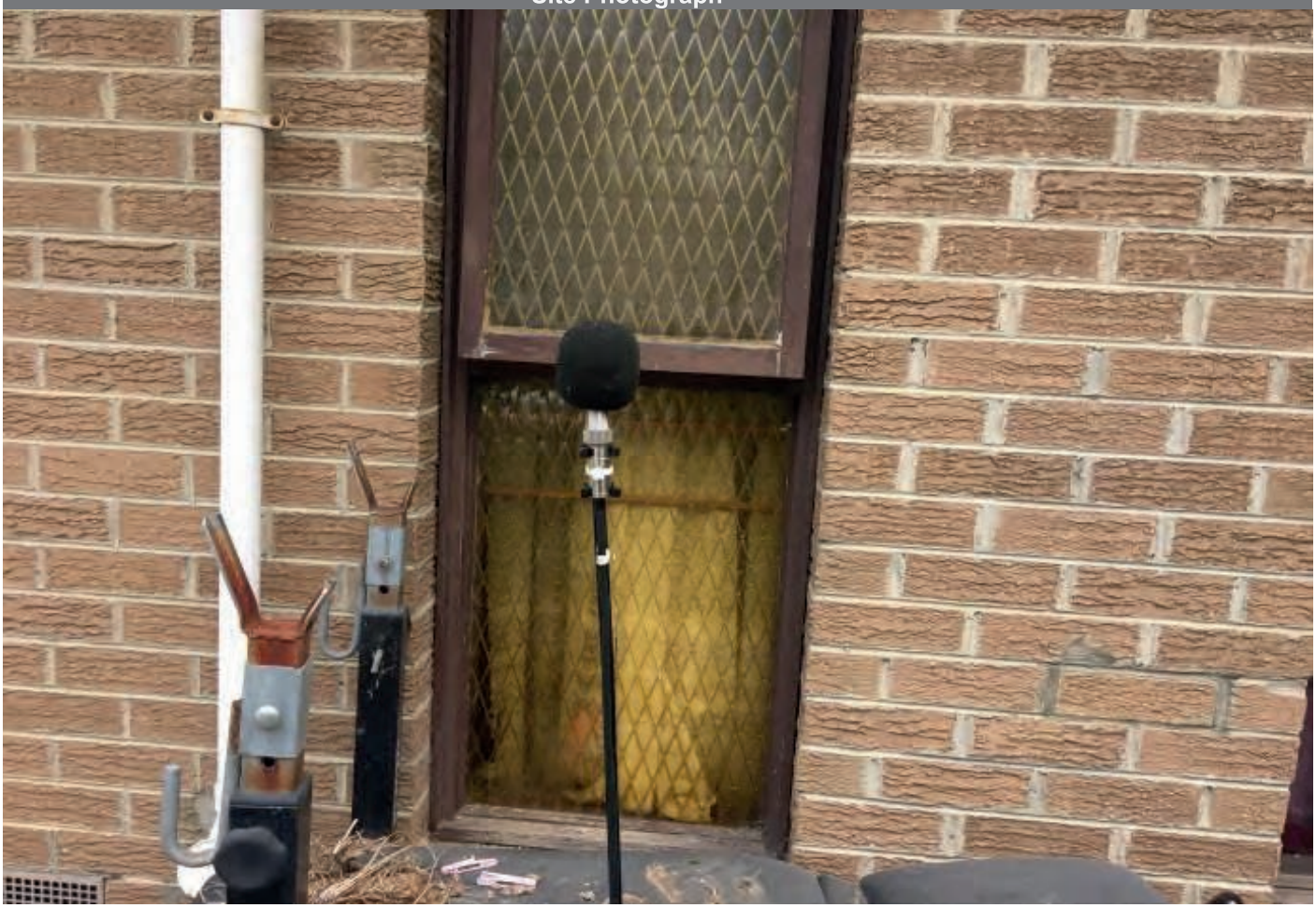
Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph



Project No. 60539390 Project:NEL noise monitoring - Residential

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Tuesday 06/02/2018							Wednesday 07/02/2018							Thursday 08/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	48	34	44	69	WNW	1.8	0.0	53	40	50	67	SSW	0.8	0.0	49	36	48	73	N	1.5	0.0
1:00	47	32	44	60	W	1.9	0.0	49	34	45	57	ENE	0.9	0.0	49	36	46	66	N	1.3	0.0
2:00	46	28	42	56	NW	0.8	0.0	47	30	43	64	N	0.3	0.0	48	34	44	58	N	0.0	0.0
3:00	47	30	43	58	N	0.0	0.0	48	31	44	64	N	0.0	0.0	49	36	46	66	N	0.0	0.0
4:00	49	38	47	71	NW	0.3	0.0	50	39	47	63	NNE	0.8	0.0	50	39	47	59	N	0.0	0.0
5:00	52	45	50	66	N	0.0	0.0	54	45	52	62	NNE	0.6	0.0	55	48	53	64	ENE	0.3	0.0
6:00	55	49	53	71	N	0.0	0.0	57	50	55	90	N	0.0	0.0	56	51	54	74	WSW	2.2	0.0
7:00	54	48	52	72	N	0.0	0.0	55	48	52	74	NE	1.1	0.0	55	49	54	74	SW	1.6	0.0
8:00	53	46	52	82	N	0.9	0.0	55	49	53	73	NE	1.4	0.0	56	49	58	79	SW	0.6	0.0
9:00	54	47	52	71	ENE	1.3	0.0	55	48	55	91	ESE	1.8	0.0	55	48	57	85	SE	0.6	0.0
10:00	55	48	56	86	ESE	1.3	0.0	54	47	52	76	E	1.5	0.0	57	49	62	87	SW	1.7	0.0
11:00	56	48	53	73	S	1.7	0.0	54	47	52	70	NE	2.7	0.0	56	49	54	78	SW	1.9	0.0
12:00	55	48	53	68	SE	1.3	0.0	54	46	51	67	ENE	3.0	0.0	56	49	53	75	SW	3.3	0.0
13:00	56	49	55	92	SW	2.2	0.0	53	47	51	69	NNE	2.7	0.0	58	49	55	71	SW	3.9	0.0
14:00	56	49	69	##	SW	3.3	0.0	53	47	55	92	ENE	2.7	0.0	60	54	58	71	SSW	4.4	0.0
15:00	57	51	65	99	SW	4.7	0.0	53	47	68	##	ENE	2.8	0.0	60	54	58	71	SSW	4.2	0.0
16:00	59	52	57	85	SW	4.4	0.0	52	46	50	65	NNW	3.3	0.0	61	54	58	72	SSW	4.5	0.0
17:00	60	52	57	77	SW	4.1	0.0	53	47	62	91	NNE	3.1	0.0	61	54	59	77	SSW	3.9	0.0
18:00	61	54	63	99	SSE	2.8	0.0	53	48	62	90	ENE	1.9	0.0	61	53	63	97	SW	3.6	0.0
19:00	60	53	62	94	SSE	2.2	0.0	54	48	67	##	E	2.1	0.0	56	51	55	84	SW	3.6	0.0
20:00	65	53	60	79	S	1.9	0.0	63	50	62	99	E	1.1	0.0	59	50	56	81	SW	3.3	0.0
21:00	56	49	53	66	SSW	1.5	0.0	55	48	53	73	N	0.0	0.0	56	50	54	73	SSW	3.8	0.0
22:00	53	46	51	70	SSW	1.1	0.0	50	42	48	64	WNW	2.7	0.0	53	46	51	70	SW	2.2	0.0
23:00	54	42	51	65	N	0.0	0.0	48	39	46	73	NW	2.0	0.0	51	42	48	64	SW	1.8	0.0
$L_{10,18hr,\ 6\text{-}24h}$	57							54							57						
$L_{eq,15hr,\ 7\text{-}22h}$			61							60							58				
$L_{eq,9hr,\ 22\text{-}7h}$			48							50							49				
$L_{eq,16hr,\ 6\text{-}22h}$			61							60							58				
$L_{eq,8hr,\ 22\text{-}6h}$			47							49							48				
$L_{max,\ 24h}$				##							##							97			
Adverse Weather Count	0							0							0						

Start Time	Friday 09/02/2018							Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	49	37	46	56	SW	0.6	0.0	51	41	48	58	N	0.0	0.0	53	47	50	64	WSW	4.8	0.0	51	41	48	58	N	0.0	0.0
1:00	47	33	43	61	N	0.0	0.0	49	36	47	77	NNW	0.8	0.0	50	41	47	61	W	4.2	0.0	48	36	45	63	W	2.7	0.0
2:00	46	30	42	54	NNW	0.2	0.0	47	33	43	58	N	0.0	0.0	47	36	44	60	W	3.3	0.0	46	33	44	65	WNW	3.6	0.0
3:00	48	34	45	61	SW	2.5	0.0	48	33	45	62	NE	0.8	0.0	45	34	42	56	W	3.6	0.0	47	36	44	62	W	3.1	0.0
4:00	53	42	50	63	SSW	2.7	0.0	49	37	46	66	E	1.5	0.0	46	35	43	66	W	2.8	0.0	49	39	46	61	W	3.3	0.0
5:00	55	48	53	65	SSE	0.6	0.0	51	41	48	59	E	0.6	0.0	48	38	45	57	WSW	2.7	0.0	52	46	50	60	W	3.0	0.0
6:00	57	52	55	78	SSW	2.8	0.0	54	47	53	80	N	0.0	0.0	51	43	48	65	W	2.5	0.0	56	50	54	79	W	3.0	0.0
7:00	59	53	58	83	S	2.5	0.0	55	48	53	75	N	0.0	0.0	52	44	50	77	W	2.8	0.0	55	50	53	74	W	2.8	0.0
8:00	60	52	66	99	SSW	3.1	0.0	55	48	53	71	E	1.9	0.0	53	46	51	76	SW	3.1	0.0	55	50	54	78	WSW	3.3	0.0
9:00	63	51	61	95	S	1.8	0.0	54	48	52	66	E	1.6	0.0	59	51	56	84	SW	4.1	0.0	58	51	61	93	WSW	3.9	0.0
10:00	56	50	55	81	SW	3.6	0.0	53	48	51	70	NW	2.8	0.0	60	53	57	82	SSW	3.6	0.0	57	50	60	92	WSW	4.4	0.0
11:00	58	51	59	87	SW	2.1	0.0	55	48	54	81	NW	3.1	0.0	60	52	57	83	SSW	4.9	0.0	58	51	58	94	WSW	4.7	0.0
12:00	57	50	55	71	SW	2.8	0.0	54	49	52	76	N	2.4	0.0	61	54	64	95	SW	4.9	0.0	59	51	56	68	WSW	3.3	0.0
13:00	57	50	58	94	S	1.6	0.0	53	48	52	70	NNE	3.5	0.0					SW	5.6	0.0	59	51	66	98	SSW	3.0	0.0
14:00	56	49	58	95	S	2.2	0.0	54	49	54	87	NNE	4.6	0.0					SW	5.2	0.0	60	52	57	69	SW	4.6	0.0
15:00	58	51	55	65	S	2.8	0.0					N	6.4	0.0	60	51	57	82	SW	4.6	0.0	60	53	58	87	SSW	3.3	0.0
16:00	58	50	55	73	S	2.5	0.0					N	6.7	0.2	59	51	58	88	SW	4.2	0.0	61	52	58	78	SSW	3.8	0.0
17:00	57	51	55	83	SW	3.5	0.0					NNW	5.6	0.0	59	52	56	70	SW	4.4	0.0	62	53	60	89	SSW	3.3	0.0
18:00	57	50	62	92	SW	3.6	0.0	61	48	63	90	N	1.1	0.0	62	53	63	89	SW	4.1	0.0	61	54	59	81	SSW	3.6	0.0
19:00	56	51	57	86	SW	3.5	0.0	58	51	58	85	SW	3.1	0.0	64	52	62	98	SW	3.6	0.0	59	52	65	99	S	1.8	0.0
20:00	55	50	54	84	WSW	2.7	0.0	57	48	65	98	SW	0.8	0.0	60	53	57	72	SW	3.8	0.0	58	51	62	98	SSW	2.6	0.0
21:00	54	47	51	73	SW	2.2	0.0	57	50	54	65	SSW	3.3	0.2	59	51	56	75	S	2.7	0.0	58	51	57	87	S	2.5	0.0
22:00	53	46	51	62	SSW	1.1	0.0	57	49	54	66	SW	3.9	0.0	58	50	55	72	SSW	2.7	0.0	57	49	54	71	SSW	2.2	0.0
23:00	52	44	50	60	N	0.0	0.0	54	47	51	63	WSW	4.4	0.0	54	44	51	71	S	2.1	0.0	53	44	50	64	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	57							55							58							58						
$L_{eq,15hr,\ 7\text{-}22h}$			59							58							59							60				
$L_{eq,9hr,\ 22\text{-}7h}$			50							49							49							51				
$L_{eq,16hr,\ 6\text{-}22h}$			59							58							59							60				
$L_{eq,8hr,\ 22\text{-}6h}$			48							48							49							50				
$L_{max,\ 24h}$				99							98							98							99			
Adverse Weather Count	0							3							2							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

Noise Monitoring Data Sheet — 22 Sellars St, Watsonia North

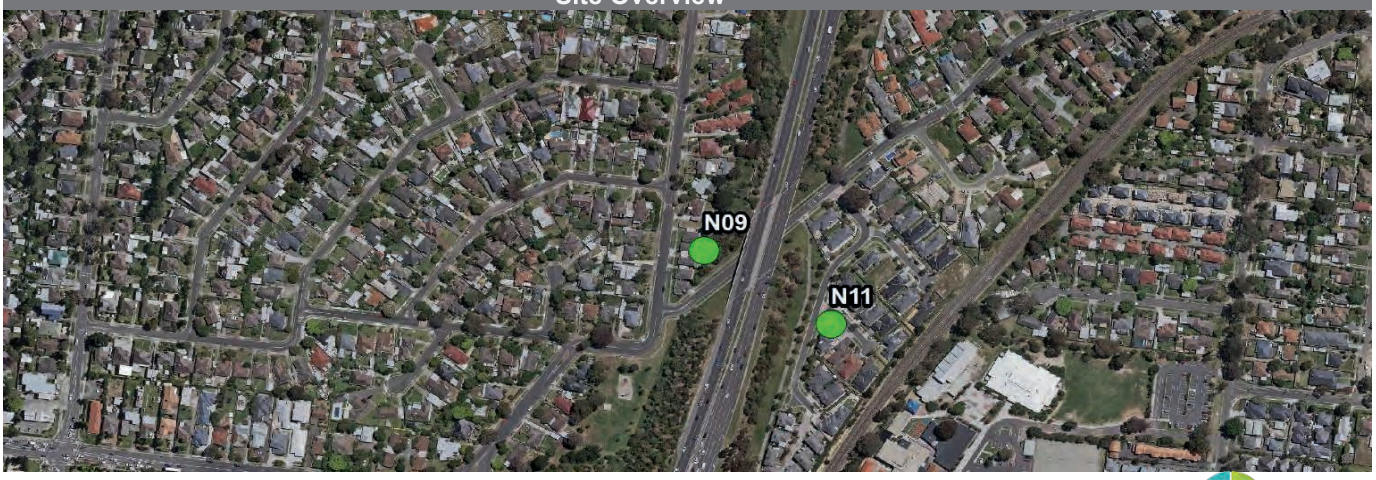
SITE ID **9**

Dominant Road	Greensborough Bypass	From	6/02/2018	Address	22 Sellars St
18-hr Traffic Flow	-	To	22/02/2018	Suburb	Watsonia North
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'24.17"E
Distance to Road (m)	40	Inst. Serial #	164396	Latitude	37°42'3.83"S
% of H.V.	-	Operator	LE	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	6/02	7/02	8/02	9/02	11/02	12/02	13/02	15/02	16/02	17/02	18/02	19/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**61**	62 dBA	62 dBA	62 dBA	62 dBA	60 dBA	62 dBA	62 dBA	61 dBA	61 dBA	61 dBA	61 dBA	62 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**60**	60 dBA	60 dBA	60 dBA	60 dBA	58 dBA	60 dBA	60 dBA	60 dBA	59 dBA	59 dBA	58 dBA	61 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**59**	60 dBA	60 dBA	60 dBA	60 dBA	58 dBA	60 dBA	60 dBA	60 dBA	59 dBA	59 dBA	58 dBA	61 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**54**	53 dBA	54 dBA	54 dBA	54 dBA	53 dBA	54 dBA	54 dBA	54 dBA	53 dBA	54 dBA	54 dBA	54 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**86**	54 dBA	56 dBA	55 dBA	55 dBA	53 dBA	55 dBA	56 dBA	55 dBA	55 dBA	55 dBA	54 dBA	55 dBA

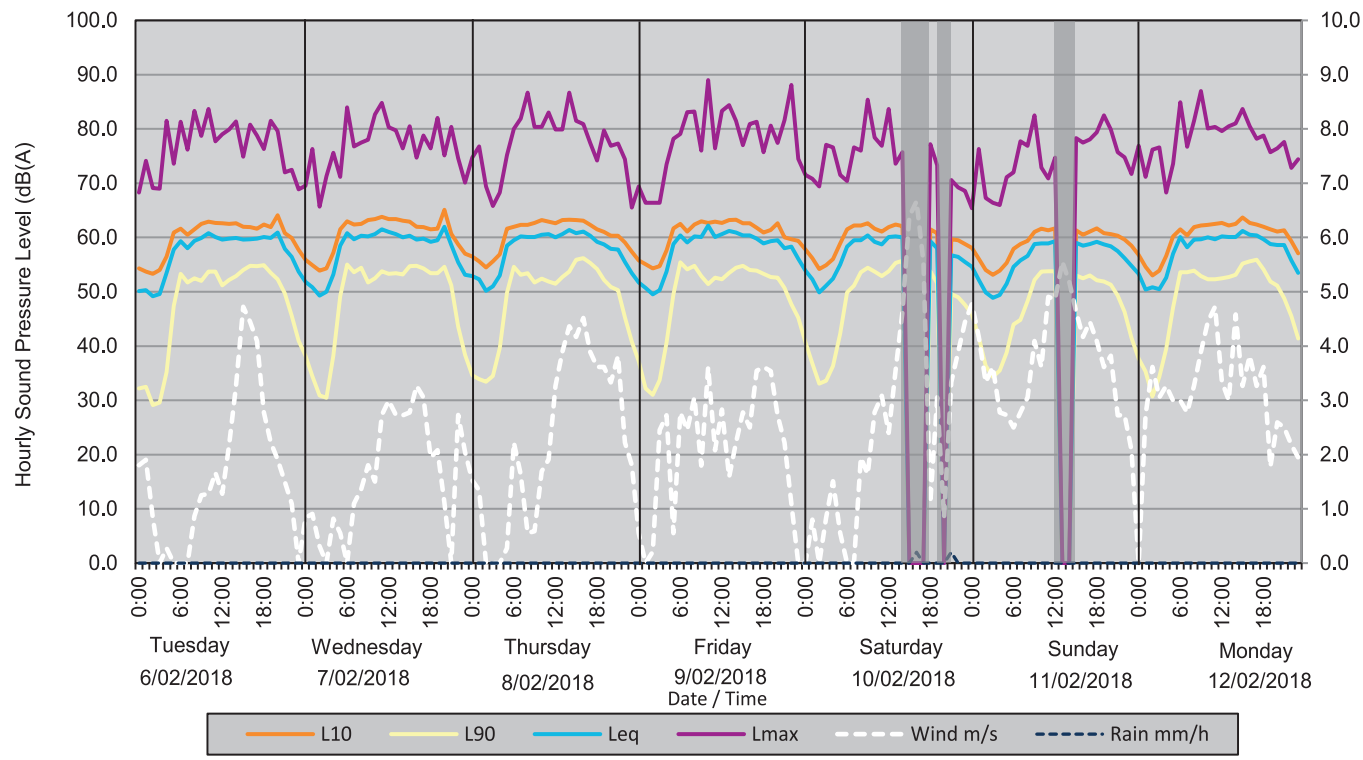
Site Zoom

Site Overview



Project No. 60539390 Project:NEL noise monitoring - Residential

Site Noise and Weather Graphical Analysis



Site Photograph

Project No. 60539390 Project:NEL noise monitoring - Residential

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Tuesday 06/02/2018							Wednesday 07/02/2018							Thursday 08/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	54	32	50	68	WNW	1.8	0.0	56	38	52	70	SSW	0.8	0.0	57	35	53	75	N	1.5	0.0
1:00	54	33	50	74	W	1.9	0.0	55	34	51	76	ENE	0.9	0.0	56	34	52	77	N	1.3	0.0
2:00	53	29	49	69	NW	0.8	0.0	54	31	49	66	N	0.3	0.0	55	33	50	69	N	0.0	0.0
3:00	54	30	50	69	N	0.0	0.0	54	31	50	71	N	0.0	0.0	56	35	51	66	N	0.0	0.0
4:00	57	35	54	82	NW	0.3	0.0	57	38	53	76	NNE	0.8	0.0	57	40	53	68	N	0.0	0.0
5:00	61	47	58	74	N	0.0	0.0	62	49	59	71	NNE	0.6	0.0	62	50	59	75	ENE	0.3	0.0
6:00	62	53	59	81	N	0.0	0.0	63	55	61	84	N	0.0	0.0	62	55	60	80	WSW	2.2	0.0
7:00	61	52	58	76	N	0.0	0.0	62	54	60	77	NE	1.1	0.0	62	53	60	82	SW	1.6	0.0
8:00	62	53	59	83	N	0.9	0.0	63	54	60	78	NE	1.4	0.0	62	53	60	87	SW	0.6	0.0
9:00	63	52	60	79	ENE	1.3	0.0	63	52	60	78	ESE	1.8	0.0	63	52	60	80	SE	0.6	0.0
10:00	63	54	61	84	ESE	1.3	0.0	63	53	61	83	E	1.5	0.0	63	52	61	80	SW	1.7	0.0
11:00	63	54	60	78	S	1.7	0.0	64	54	62	85	NE	2.7	0.0	63	52	61	83	SW	1.9	0.0
12:00	63	51	60	79	SE	1.3	0.0	63	53	61	80	ENE	3.0	0.0	63	52	60	80	SW	3.3	0.0
13:00	63	52	60	80	SW	2.2	0.0	63	53	61	80	NNE	2.7	0.0	63	53	61	80	SW	3.9	0.0
14:00	63	53	60	81	SW	3.3	0.0	63	53	60	76	ENE	2.7	0.0	63	54	61	87	SSW	4.4	0.0
15:00	62	54	60	75	SW	4.7	0.0	63	55	60	81	ENE	2.8	0.0	63	56	61	82	SSW	4.2	0.0
16:00	62	55	60	81	SW	4.4	0.0	62	55	60	75	NNW	3.3	0.0	63	56	61	81	SSW	4.5	0.0
17:00	62	55	60	79	SW	4.1	0.0	62	54	60	79	NNE	3.1	0.0	62	55	60	77	SSW	3.9	0.0
18:00	62	55	60	76	SSE	2.8	0.0	62	53	59	76	ENE	1.9	0.0	62	54	59	74	SW	3.6	0.0
19:00	62	54	60	82	SSE	2.2	0.0	62	53	60	82	E	2.1	0.0	61	52	59	80	SW	3.6	0.0
20:00	64	52	61	80	S	1.9	0.0	65	55	62	75	E	1.1	0.0	60	51	58	77	SW	3.3	0.0
21:00	61	50	58	72	SSW	1.5	0.0	61	51	59	80	N	0.0	0.0	60	50	58	77	SSW	3.8	0.0
22:00	60	46	56	73	SSW	1.1	0.0	59	44	55	75	WNW	2.7	0.0	59	45	56	74	SW	2.2	0.0
23:00	58	41	54	69	N	0.0	0.0	57	38	53	70	NW	2.0	0.0	57	41	53	66	SW	1.8	0.0
$L_{10,18hr,\ 6\text{-}24h}$	62							62							62						
$L_{eq,15hr,\ 7\text{-}22h}$			60							60							60				
$L_{eq,9hr,\ 22\text{-}7h}$			54							56							55				
$L_{eq,16hr,\ 6\text{-}22h}$			60							60							60				
$L_{eq,8hr,\ 22\text{-}6h}$			53							54							54				
$L_{max,\ 24h}$				84							85							87			
Adverse Weather Count	0							0							0						

Start Time	Friday 09/02/2018							Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	56	37	52	69	SW	0.6	0.0	58	41	54	72	N	0.0	0.0	58	46	55	65	WSW	4.8	0.0	57	38	53	77	N	0.0	0.0
1:00	55	32	51	66	N	0.0	0.0	56	37	52	71	NNW	0.8	0.0	56	42	52	76	W	4.2	0.0	55	35	50	71	W	2.7	0.0
2:00	54	31	50	66	NNW	0.2	0.0	54	33	50	69	N	0.0	0.0	54	36	50	67	W	3.3	0.0	53	31	51	76	WNW	3.6	0.0
3:00	55	34	50	66	SW	2.5	0.0	55	34	51	77	NE	0.8	0.0	53	34	49	66	W	3.6	0.0	54	34	51	77	W	3.1	0.0
4:00	58	41	54	74	SSW	2.7	0.0	56	36	52	77	E	1.5	0.0	54	36	49	66	W	2.8	0.0	57	40	53	68	W	3.3	0.0
5:00	62	50	59	78	SSE	0.6	0.0	59	42	55	72	E	0.6	0.0	55	39	52	71	WSW	2.7	0.0	60	47	57	74	W	3.0	0.0
6:00	63	55	60	79	SSW	2.8	0.0	62	50	58	70	N	0.0	0.0	58	44	55	72	W	2.5	0.0	62	54	60	85	W	3.0	0.0
7:00	61	54	59	83	S	2.5	0.0	62	51	60	77	N	0.0	0.0	59	45	56	78	W	2.8	0.0	60	54	58	77	W	2.8	0.0
8:00	62	55	60	83	SSW	3.1	0.0	62	54	60	76	E	1.9	0.0	59	48	57	77	SW	3.1	0.0	62	54	60	82	WSW	3.3	0.0
9:00	63	53	60	76	S	1.8	0.0	63	54	60	85	E	1.6	0.0	61	52	59	83	SW	4.1	0.0	62	53	60	87	WSW	3.9	0.0
10:00	63	51	62	89	SW	3.6	0.0	62	54	59	78	NW	2.8	0.0	62	54	59	73	SSW	3.6	0.0	62	52	60	80	WSW	4.4	0.0
11:00	63	53	60	76	SW	2.1	0.0	61	53	59	77	NW	3.1	0.0	61	54	59	71	SSW	4.9	0.0	63	52	60	80	WSW	4.7	0.0
12:00	63	52	61	83	SW	2.8	0.0	62	54	60	84	N	2.4	0.0	62	54	59	75	SW	4.9	0.0	63	53	60	80	WSW	3.3	0.0
13:00	63	54	61	84	S	1.6	0.0	62	55	60	74	NNE	3.5	0.0					SW	5.6	0.0	62	53	60	81	SSW	3.0	0.0
14:00	63	54	61	82	S	2.2	0.0	62	56	60	76	NNE	4.6	0.0					SW	5.2	0.0	63	53	60	81	SW	4.6	0.0
15:00	63	55	60	77	S	2.8	0.0					N	6.4	0.0	61	53	59	78	SW	4.6	0.0	64	55	61	84	SSW	3.3	0.0
16:00	63	54	60	81	S	2.5	0.0					N	6.7	0.2	61	53	59	78	SW	4.2	0.0	63	56	61	81	SSW	3.8	0.0
17:00	62	54	60	81	SW	3.5	0.0					NNW	5.6	0.0	61	53	59	78	SW	4.4	0.0	62	56	60	78	SSW	3.3	0.0
18:00	61	53	59	76	SW	3.6	0.0	62	54	59	77	N	1.1	0.0	62	52	59	79	SW	4.1	0.0	62	54	60	79	SSW	3.6	0.0
19:00	61	53	59	81	SW	3.5	0.0	61	52	58	73	SW	3.1	0.0	61	52	59	83	SW	3.6	0.0	62	52	59	76	S	1.8	0.0
20:00	63	53	60	77	WSW	2.7	0.0					SW	0.8	0.0	61	51	58	80	SW	3.8	0.0	61	51	59	76	SSW	2.6	0.0
21:00	60	51	58	82	SW	2.2	0.0	60	50	57	71	SSW	3.3	0.2	60	49	58	76	S	2.7	0.0	61	49	59	78	S	2.5	0.0
22:00	60	48	58	88	SSW	1.1	0.0	60	49	56	69	SW	3.9	0.0	60	46	56	75	SSW	2.7	0.0	59	46	56	73	SSW	2.2	0.0
23:00	59	45	56	75	N	0.0	0.0	59	48	56	69	WSW	4.4	0.0	59	42	55	72	S	2.1	0.0	57	41	54	74	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	62														60							62						
$L_{eq,15hr,\ 7\text{-}22h}$			60														58							60				
$L_{eq,9hr,\ 22\text{-}7h}$			55														53							55				
$L_{eq,16hr,\ 6\text{-}22h}$			60														58							60				
$L_{eq,8hr,\ 22\text{-}6h}$			54														53							54				
$L_{max,\ 24h}$				89														83							87			
Adverse Weather Count	0							4							2							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet

21 Boyd Street, Greensborough

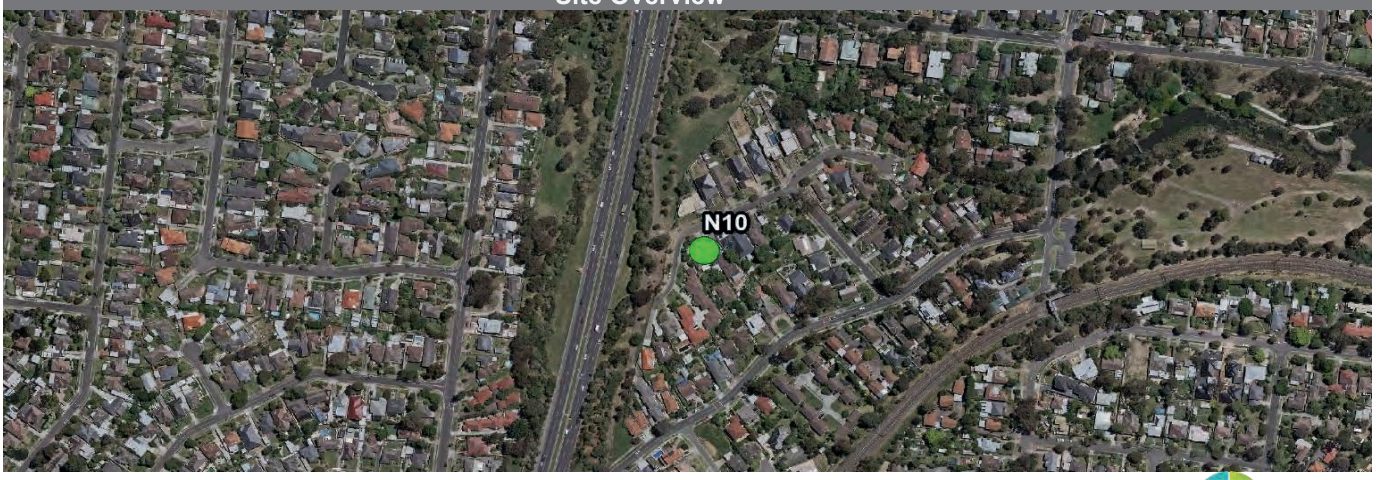
SITE ID
10

Dominant Road	Greendborough Bypass	From	9/02/2018	Address	21 Boyd Street
18-hr Traffic Flow	-	To	16/02/2018	Suburb	Greensborough
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'32.04"E
Distance to Road (m)	65	Inst. Serial #	465445	Latitude	37°41'55.56"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

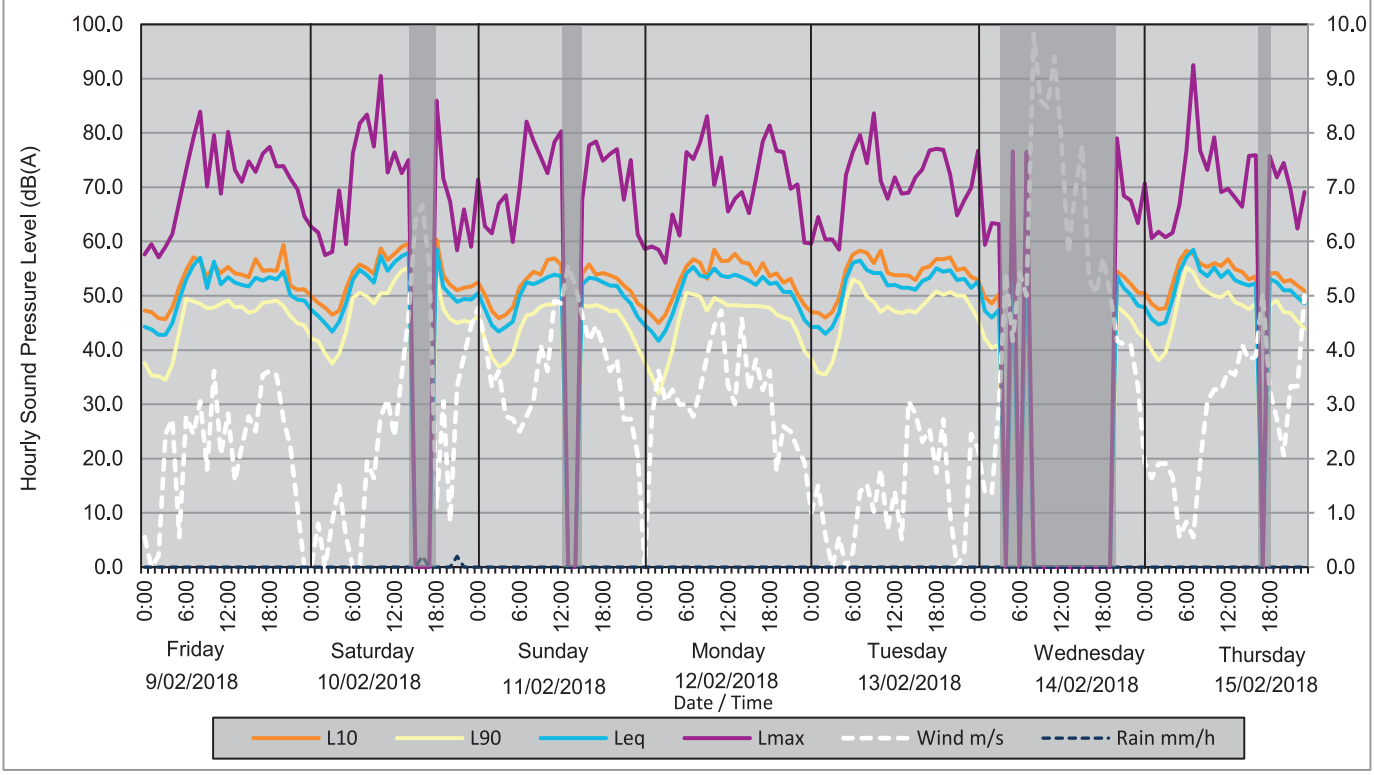
Date	Avg	9/02	10/02	11/02	12/02	13/02	15/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**55**	55 dBA	55 dBA	54 dBA	55 dBA	56 dBA	55 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**54**	54 dBA	55 dBA	53 dBA	53 dBA	54 dBA	54 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**54**	54 dBA	55 dBA	52 dBA	53 dBA	54 dBA	54 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**48**	46 dBA	47 dBA	48 dBA	47 dBA	48 dBA	49 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**49**	48 dBA	48 dBA	48 dBA	48 dBA	50 dBA	51 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Project No. 60539390 Project:NEL noise monitoring - Residential

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Friday 09/02/2018							Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	47	38	44	58	SW	0.6	0.0	50	42	47	63	N	0.0	0.0	53	46	51	71	WSW	4.8	0.0	48	38	45	59	N	0.0	0.0
1:00	47	35	44	60	N	0.0	0.0	49	42	46	62	NNW	0.8	0.0	50	42	48	63	W	4.2	0.0	46	35	43	59	W	2.7	0.0
2:00	46	35	43	57	NNW	0.2	0.0	48	39	45	58	N	0.0	0.0	47	39	45	62	W	3.3	0.0	45	32	42	59	WNW	3.6	0.0
3:00	46	35	43	59	SW	2.5	0.0	47	38	43	58	NE	0.8	0.0	46	37	43	67	W	3.6	0.0	47	36	44	56	W	3.1	0.0
4:00	48	37	45	61	SSW	2.7	0.0	47	39	45	69	E	1.5	0.0	47	38	44	69	W	2.8	0.0	49	40	47	65	W	3.3	0.0
5:00	52	43	49	67	SSE	0.6	0.0	51	43	49	60	E	0.6	0.0	48	39	45	60	WSW	2.7	0.0	53	46	51	61	W	3.0	0.0
6:00	55	49	53	73	SSW	2.8	0.0	54	50	53	76	N	0.0	0.0	52	44	50	70	W	2.5	0.0	55	51	54	77	W	3.0	0.0
7:00	57	49	56	79	S	2.5	0.0	56	51	55	82	N	0.0	0.0	53	46	53	82	W	2.8	0.0	57	50	55	75	W	2.8	0.0
8:00	56	49	57	84	SSW	3.1	0.0	55	50	54	83	E	1.9	0.0	54	47	52	79	SW	3.1	0.0	56	50	54	78	WSW	3.3	0.0
9:00	53	48	51	70	S	1.8	0.0	54	49	52	78	E	1.6	0.0	54	48	53	76	SW	4.1	0.0	53	47	53	83	WSW	3.9	0.0
10:00	56	48	56	80	SW	3.6	0.0	59	51	57	91	NW	2.8	0.0	57	48	53	73	SSW	3.6	0.0	59	50	55	70	WSW	4.4	0.0
11:00	54	49	52	69	SW	2.1	0.0	57	51	55	73	NW	3.1	0.0	57	48	54	78	SSW	4.9	0.0	56	49	54	76	WSW	4.7	0.0
12:00	55	49	53	80	SW	2.8	0.0	58	53	56	76	N	2.4	0.0	56	49	54	80	SW	4.9	0.0	56	48	53	66	WSW	3.3	0.0
13:00	54	48	52	73	S	1.6	0.0	59	55	57	73	NNE	3.5	0.0					SW	5.6	0.0	58	48	54	68	SSW	3.0	0.0
14:00	54	48	52	71	S	2.2	0.0	60	55	58	75	NNE	4.6	0.0					SW	5.2	0.0	56	48	53	69	SW	4.6	0.0
15:00	53	47	52	75	S	2.8	0.0					N	6.4	0.0	54	48	52	68	SW	4.6	0.0	56	48	53	65	SSW	3.3	0.0
16:00	57	47	53	73	S	2.5	0.0					N	6.7	0.2	56	48	53	78	SW	4.2	0.0	54	48	52	72	SSW	3.8	0.0
17:00	55	49	53	76	SW	3.5	0.0					NNW	5.6	0.0	54	48	53	78	SW	4.4	0.0	56	48	54	78	SSW	3.3	0.0
18:00	55	49	53	77	SW	3.6	0.0	60	53	59	86	N	1.1	0.0	54	48	53	75	SW	4.1	0.0	54	48	52	81	SSW	3.6	0.0
19:00	55	49	53	74	SW	3.5	0.0	54	48	52	72	SW	3.1	0.0	54	47	52	76	SW	3.6	0.0	54	47	52	77	S	1.8	0.0
20:00	59	48	55	74	WSW	2.7	0.0	52	46	50	67	SW	0.8	0.0	53	47	52	77	SW	3.8	0.0	52	46	51	77	SSW	2.6	0.0
21:00	52	46	50	72	SW	2.2	0.0	51	45	49	58	SSW	3.3	0.2	52	45	50	68	S	2.7	0.0	53	46	51	70	S	2.5	0.0
22:00	51	45	49	70	SSW	1.1	0.0	52	45	49	66	SW	3.9	0.0	51	43	49	75	SSW	2.7	0.0	50	43	48	71	SSW	2.2	0.0
23:00	51	45	49	65	N	0.0	0.0	52	45	49	59	WSW	4.4	0.0	49	40	46	61	S	2.1	0.0	48	40	46	60	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	55							55							54							55						
$L_{eq,15hr,\ 7\text{-}22h}$			54							55							53							53				
$L_{eq,9hr,\ 22\text{-}7h}$			48							48							48							48				
$L_{eq,16hr,\ 6\text{-}22h}$			54							55							52							53				
$L_{eq,8hr,\ 22\text{-}6h}$			46							47							48							47				
$L_{max,\ 24h}$				84							91							82							83			
Adverse Weather Count	0							3							2							0						

Start Time	Tuesday 13/02/2018							Wednesday 14/02/2018							Thursday 15/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	47	38	44	60	SSE	1.0	0.0	53	46	53	77	NNE	2.2	0.0	51	42	48	71	WNW	1.9	0.0
1:00	47	36	44	65	S	1.5	0.0	50	42	47	59	N	1.4	0.0	49	40	46	61	NW	1.6	0.0
2:00	46	36	43	60	N	0.6	0.0	49	40	46	63	ENE	1.4	0.0	48	38	45	62	NW	1.9	0.0
3:00	47	38	44	60	N	0.0	0.0	50	41	47	63	N	3.0	0.0	48	40	45	61	N	1.9	0.0
4:00	50	42	47	59	NNE	0.6	0.0					N	5.4	0.0	52	44	49	62	NNE	1.7	0.0
5:00	55	49	53	72	N	0.0	0.0	58	51	56	77	N	4.2	0.0	56	51	54	67	E	0.6	0.0
6:00	58	53	56	77	N	0.3	0.0					N	5.4	0.0	58	55	57	77	ENE	0.8	0.0
7:00	58	52	57	80	N	1.4	0.0	61	56	59	77	NNW	5.0	0.0	58	54	59	93	E	0.6	0.0
8:00	58	50	55	74	N	1.5	0.0					W	9.8	0.0	56	52	55	77	N	1.9	0.0
9:00	56	49	54	84	NNE	1.0	0.0					WSW	8.6	0.0	55	51	54	73	WNW	3.1	0.0
10:00	58	47	54	71	E	1.8	0.0					W	8.5	0.0	56	50	55	79	NW	3.3	0.0
11:00	54	48	52	68	NNE	0.7	0.0					W	9.4	0.0	56	50	53	69	WNW	3.3	0.0
12:00	54	47	52	72	S	1.4	0.0					W	7.9	0.0	57	51	55	70	WNW	3.6	0.0
13:00	54	47	52	69	NE	0.5	0.0					W	5.8	0.0	55	49	53	68	NW	3.5	0.0
14:00	54	47	52	69	ESE	3.1	0.0					W	6.9	0.0	54	48	52	66	SW	4.1	0.0
15:00	53	47	51	72	NE	2.8	0.0					WSW	7.8	0.0	53	48	52	76	SW	3.8	0.0
16:00	55	48	53	73	NNE	2.3	0.0					WSW	5.3	0.0	54	49	52	76	SW	3.9	0.0
17:00	55	50	53	77	N	2.5	0.0					WSW	5.0	0.0					SW	5.0	0.0
18:00	57	51	55	77	NNW	1.7	0.0					SSW	5.7	0.0	54	48	53	76	SW	3.3	0.0
19:00	57	50	54	77	NNW	2.7	0.0					SSW	5.0	0.0	54	49	53	72	SSW	2.7	0.0
20:00	57	51	55	72	NNW	1.0	0.0	55	48	54	79	SW	4.2	0.0	53	47	51	75	SW	2.1	0.0
21:00	55	50	53	65	N	0.0	0.0	54	47	51	68	WSW	4.1	0.0	53	47	51	70	SW	3.3	0.0
22:00	55	50	53	68	NE	0.3	0.0	52	46	50	68	WSW	4.1	0.0	52	45	50	62	WSW	3.3	0.0
23:00	54	48	52	70	N	2.5	0.0	51	43	48	63	W	3.3	0.0	51	44	49	69	WSW	5.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	56														55						
$L_{eq,15hr,\ 7\text{-}22h}$			54														54				
$L_{eq,9hr,\ 22\text{-}7h}$			50														51				
$L_{eq,16hr,\ 6\text{-}22h}$			54														54				
$L_{eq,8hr,\ 22\text{-}6h}$			48														49				
$L_{max,\ 24h}$				84														93			
Adverse Weather Count	0							14							1						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet

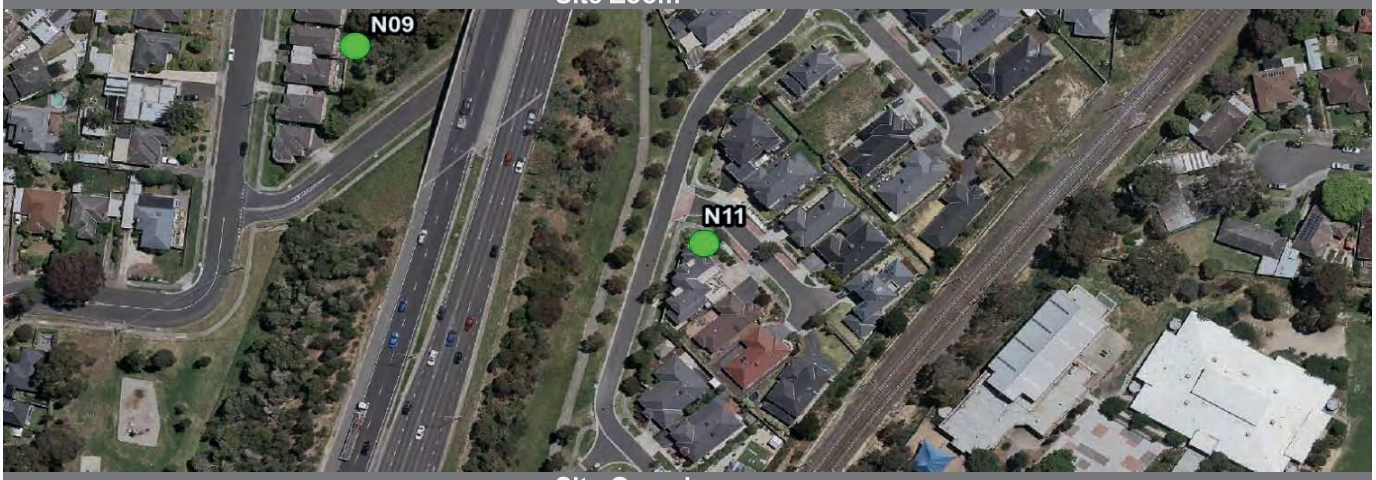
1 Saxon Court, Greensborough

SITE ID
11

Dominant Road	Greensborough Bypass	From	9/02/2018	Address	1 Saxon Court
18-hr Traffic Flow	-	To	15/02/2018	Suburb	Greensborough
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'28.28"E
Distance to Road (m)	55	Inst. Serial #	8780CA	Latitude	37°42'5.97"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

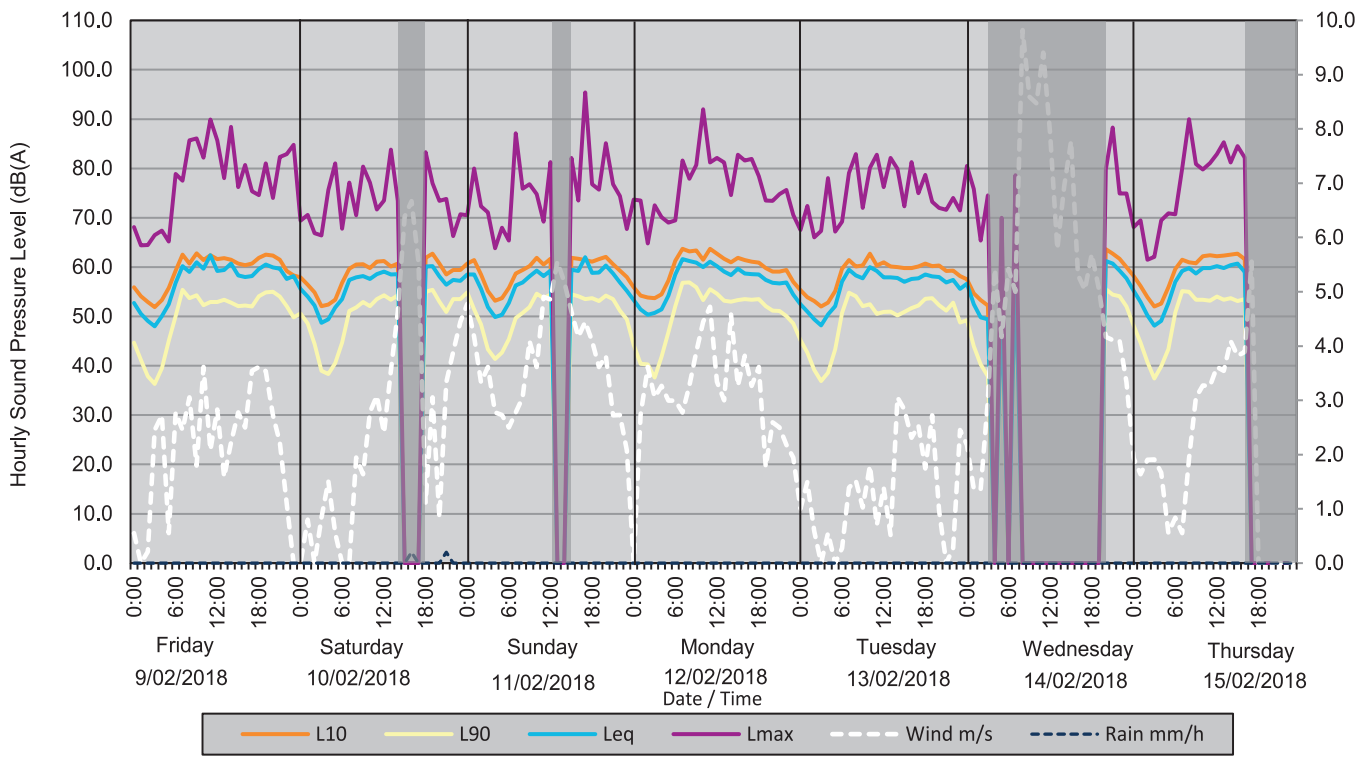
Date	Avg	9/02	10/02	11/02	12/02	13/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**61**	61 dBA	60 dBA	60 dBA	61 dBA	60 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**59**	60 dBA	58 dBA	59 dBA	60 dBA	58 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**59**	60 dBA	58 dBA	59 dBA	59 dBA	58 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**54**	54 dBA	55 dBA	56 dBA	54 dBA	53 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**55**	54 dBA	55 dBA	56 dBA	54 dBA	53 dBA

Site Zoom



Site Overview

Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Friday 09/02/2018							Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	56	45	53	68	SW	0.6	0.0	58	51	56	69	N	0.0	0.0	61	55	59	71	WSW	4.8	0.0	56	44	53	74	N	0.0	0.0
1:00	54	41	51	64	N	0.0	0.0	56	49	54	71	NNW	0.8	0.0	61	51	59	80	W	4.2	0.0	54	40	51	74	W	2.7	0.0
2:00	53	38	49	65	NNW	0.2	0.0	55	44	52	67	N	0.0	0.0	59	48	56	72	W	3.3	0.0	54	40	50	65	WNW	3.6	0.0
3:00	52	36	48	67	SW	2.5	0.0	52	39	49	66	NE	0.8	0.0	55	43	52	71	W	3.6	0.0	54	38	51	73	W	3.1	0.0
4:00	53	40	50	67	SSW	2.7	0.0	52	38	49	76	E	1.5	0.0	53	41	50	64	W	2.8	0.0	55	42	51	70	W	3.3	0.0
5:00	56	45	53	65	SSE	0.6	0.0	53	41	52	81	E	0.6	0.0	54	43	50	68	WSW	2.7	0.0	57	47	54	69	W	3.0	0.0
6:00	59	50	57	79	SSW	2.8	0.0	57	45	54	68	N	0.0	0.0	56	45	53	65	W	2.5	0.0	61	52	59	70	W	3.0	0.0
7:00	63	55	60	78	S	2.5	0.0	60	51	57	77	N	0.0	0.0	59	50	56	87	W	2.8	0.0	64	57	62	82	W	2.8	0.0
8:00	61	54	59	86	SSW	3.1	0.0	61	52	58	71	E	1.9	0.0	59	51	57	76	SW	3.1	0.0	63	57	61	78	WSW	3.3	0.0
9:00	63	54	61	86	S	1.8	0.0	61	53	58	80	E	1.6	0.0	60	52	58	77	SW	4.1	0.0	63	56	61	81	WSW	3.9	0.0
10:00	61	52	60	82	SW	3.6	0.0	60	52	58	77	NW	2.8	0.0	62	55	59	75	SSW	3.6	0.0	62	53	60	92	WSW	4.4	0.0
11:00	62	53	62	90	SW	2.1	0.0	61	54	59	72	NW	3.1	0.0	61	54	58	69	SSW	4.9	0.0	64	56	61	81	WSW	4.7	0.0
12:00	62	53	59	86	SW	2.8	0.0	61	54	59	74	N	2.4	0.0	62	54	59	81	SW	4.9	0.0	63	55	60	82	WSW	3.3	0.0
13:00	62	53	59	78	S	1.6	0.0	60	53	59	84	NNE	3.5	0.0					SW	5.6	0.0	62	53	59	81	SSW	3.0	0.0
14:00	62	53	61	88	S	2.2	0.0	61	54	59	73	NNE	4.6	0.0					SW	5.2	0.0	61	53	58	75	SW	4.6	0.0
15:00	61	52	58	76	S	2.8	0.0					N	6.4	0.0	62	55	60	82	SW	4.6	0.0	62	53	60	83	SSW	3.3	0.0
16:00	60	52	58	81	S	2.5	0.0					N	6.7	0.2	62	54	59	74	SW	4.2	0.0	61	54	59	82	SSW	3.8	0.0
17:00	61	52	58	75	SW	3.5	0.0					NNW	5.6	0.0	61	54	62	95	SW	4.4	0.0	61	53	59	82	SSW	3.3	0.0
18:00	62	54	60	75	SW	3.6	0.0	62	55	60	83	N	1.1	0.0	61	54	59	77	SW	4.1	0.0	61	54	59	78	SSW	3.6	0.0
19:00	63	55	61	81	SW	3.5	0.0	63	55	60	77	SW	3.1	0.0	62	53	59	76	SW	3.6	0.0	60	52	57	74	S	1.8	0.0
20:00	62	55	60	74	WSW	2.7	0.0	61	53	58	73	SW	0.8	0.0	62	54	60	85	SW	3.8	0.0	59	51	57	73	SSW	2.6	0.0
21:00	62	54	60	82	SW	2.2	0.0	59	51	56	74	SSW	3.3	0.2	61	54	59	77	S	2.7	0.0	59	51	57	75	S	2.5	0.0
22:00	59	52	58	83	SSW	1.1	0.0	59	54	57	66	SW	3.9	0.0	59	51	57	74	SSW	2.7	0.0	59	50	57	76	SSW	2.2	0.0
23:00	58	50	58	85	N	0.0	0.0	59	54	57	71	WSW	4.4	0.0	58	49	55	68	S	2.1	0.0	57	49	54	71	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	61							60							60							61						
$L_{eq,15hr,\ 7\text{-}22h}$			60							58							59							60				
$L_{eq,9hr,\ 22\text{-}7h}$			54							55							56							54				
$L_{eq,16hr,\ 6\text{-}22h}$			60							58							59							59				
$L_{eq,8hr,\ 22\text{-}6h}$			54							55							56							54				
$L_{max,\ 24h}$				90							84							95							92			
Adverse Weather Count	0							3							2							0						

Start Time	Tuesday 13/02/2018							Wednesday 14/02/2018							Thursday 15/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	55	45	53	68	SSE	1.0	0.0	58	49	57	81	NNE	2.2	0.0	58	48	55	68	WNW	1.9	0.0
1:00	54	43	51	72	S	1.5	0.0	55	44	53	76	N	1.4	0.0	56	45	53	70	NW	1.6	0.0
2:00	53	39	49	66	N	0.6	0.0	53	40	50	65	ENE	1.4	0.0	54	41	50	62	NW	1.9	0.0
3:00	52	37	48	67	N	0.0	0.0	52	38	49	75	N	3.0	0.0	52	37	48	62	N	1.9	0.0
4:00	53	39	50	78	NNE	0.6	0.0					N	5.4	0.0	53	40	49	70	NNE	1.7	0.0
5:00	55	43	52	67	N	0.0	0.0	57	46	54	70	N	4.2	0.0	56	43	53	71	E	0.6	0.0
6:00	60	51	57	69	N	0.3	0.0					N	5.4	0.0	60	51	57	71	ENE	0.8	0.0
7:00	61	55	60	79	N	1.4	0.0	62	55	60	79	NNW	5.0	0.0	62	55	59	80	E	0.6	0.0
8:00	60	54	58	83	N	1.5	0.0					W	9.8	0.0	61	55	60	90	N	1.9	0.0
9:00	60	52	58	72	NNE	1.0	0.0					WSW	8.6	0.0	61	53	59	81	WNW	3.1	0.0
10:00	63	53	60	80	E	1.8	0.0					W	8.5	0.0	62	53	60	80	NW	3.3	0.0
11:00	60	51	59	83	NNE	0.7	0.0					W	9.4	0.0	62	53	60	81	WNW	3.3	0.0
12:00	61	51	58	76	S	1.4	0.0					W	7.9	0.0	62	54	60	83	WNW	3.6	0.0
13:00	60	51	58	82	NE	0.5	0.0					W	5.8	0.0	62	53	60	85	NW	3.5	0.0
14:00	60	50	58	80	ESE	3.1	0.0					W	6.9	0.0	63	54	60	81	SW	4.1	0.0
15:00	60	51	57	72	NE	2.8	0.0					WSW	7.8	0.0	63	53	61	85	SW	3.8	0.0
16:00	60	52	58	81	NNE	2.3	0.0					WSW	5.3	0.0	62	54	59	82	SW	3.9	0.0
17:00	60	52	58	75	N	2.5	0.0					WSW	5.0	0.0					SW	5.6	0.0
18:00	61	54	59	79	NNW	1.7	0.0					SSW	5.7	0.0							0.0
19:00	60	54	58	73	NNW	2.7	0.0					SSW	5.0	0.0							0.0
20:00	60	52	58	72	NNW	1.0	0.0	64	56	61	80	SW	4.2	0.0							0.0
21:00	59	51	57	72	N	0.0	0.0	63	54	61	88	WSW	4.1	0.0							0.0
22:00	59	53	57	74	NE	0.3	0.0	62	54	59	75	WSW	4.1	0.0							0.0
23:00	58	49	56	72	N	2.5	0.0	60	52	58	75	W	3.3	0.0							0.0
$L_{10,18hr,\ 6\text{-}24h}$	60																				
$L_{eq,15hr,\ 7\text{-}22h}$			58																		
$L_{eq,9hr,\ 22\text{-}7h}$			53																		
$L_{eq,16hr,\ 6\text{-}22h}$			58																		
$L_{eq,8hr,\ 22\text{-}6h}$			53																		
$L_{max,\ 24h}$				83																	
Adverse Weather Count	0							14							7						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet

1/470 Greensborough Road, Greensborough

SITE ID
12

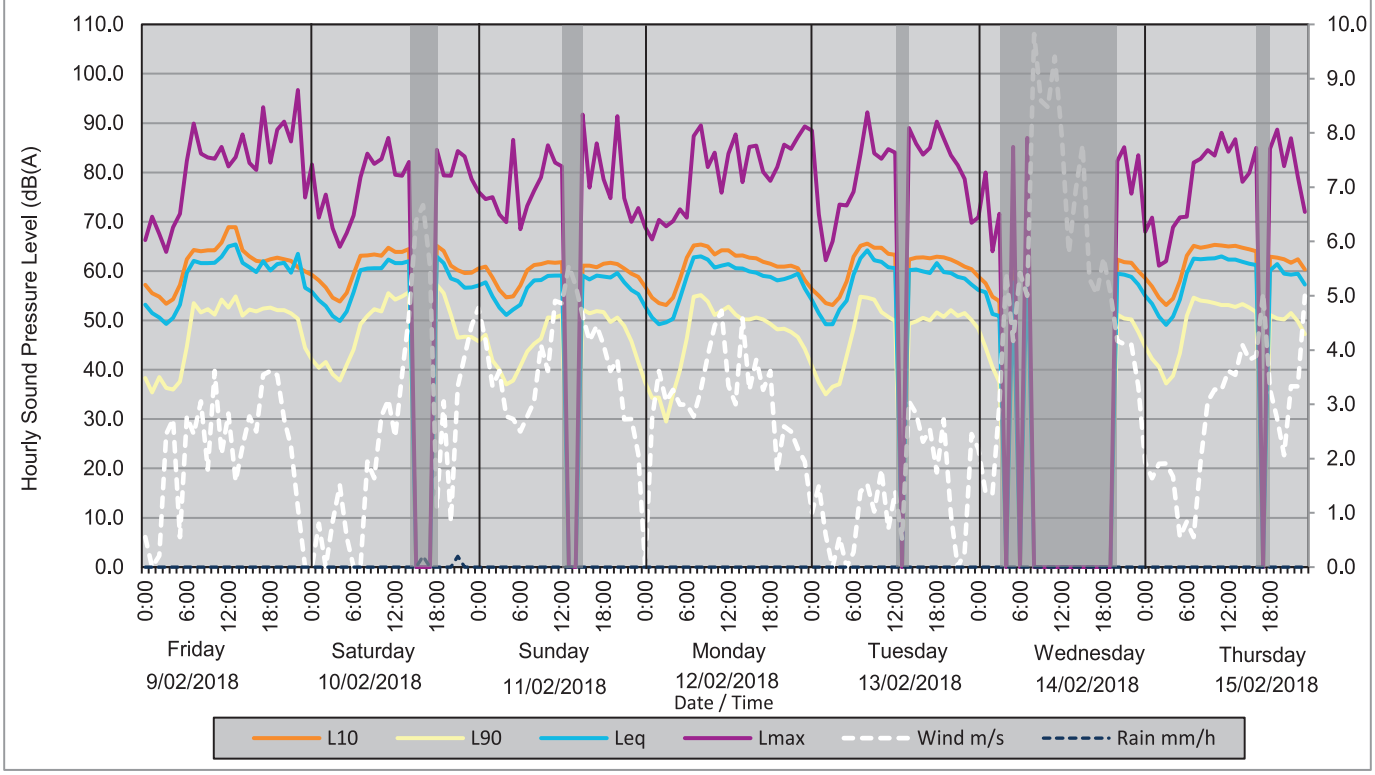
Dominant Road	Greensborough Road	From	9/02/2018	Address	1/470 Greensborough Road
18-hr Traffic Flow	-	To	16/02/2018	Suburb	Greensborough
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'17.77"E
Distance to Road (m)	50	Inst. Serial #	878037	Latitude	37°42'27.76"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	9/02	10/02	11/02	12/02	13/02	15/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**63**	64 dBA	63 dBA	61 dBA	63 dBA	63 dBA	64 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**61**	62 dBA	60 dBA	59 dBA	61 dBA	61 dBA	62 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**61**	62 dBA	61 dBA	58 dBA	61 dBA	61 dBA	62 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**55**	54 dBA	57 dBA	55 dBA	53 dBA	55 dBA	55 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**55**	55 dBA	57 dBA	55 dBA	54 dBA	55 dBA	56 dBA

Site Zoom

Site Overview

Site Noise and Weather Graphical Analysis



Site Photograph

Project No. 60539390 Project:NEL noise monitoring - Residential

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Friday 09/02/2018							Saturday 10/02/2018							Sunday 11/02/2018							Monday 12/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	57	38	53	66	SW	0.6	0.0	59	42	56	82	N	0.0	0.0	61	46	57	76	WSW	4.8	0.0	57	37	53	69	N	0.0	0.0
1:00	56	35	52	71	N	0.0	0.0	58	40	54	71	NNW	0.8	0.0	61	47	58	75	W	4.2	0.0	55	34	51	66	W	2.7	0.0
2:00	55	39	51	68	NNW	0.2	0.0	57	42	53	76	N	0.0	0.0	59	42	55	75	W	3.3	0.0	54	34	49	70	WNW	3.6	0.0
3:00	53	36	49	64	SW	2.5	0.0	55	39	51	69	NE	0.8	0.0	56	40	53	72	W	3.6	0.0	53	30	50	69	W	3.1	0.0
4:00	54	36	51	69	SSW	2.7	0.0	54	38	50	65	E	1.5	0.0	55	37	51	70	W	2.8	0.0	55	35	50	70	W	3.3	0.0
5:00	57	38	53	72	SSE	0.6	0.0	56	41	52	68	E	0.6	0.0	55	38	52	87	WSW	2.7	0.0	58	40	55	73	W	3.0	0.0
6:00	62	45	60	82	SSW	2.8	0.0	59	44	56	71	N	0.0	0.0	57	41	53	69	W	2.5	0.0	63	46	59	71	W	3.0	0.0
7:00	64	54	62	90	S	2.5	0.0	63	49	60	79	N	0.0	0.0	60	44	57	73	W	2.8	0.0	65	55	63	87	W	2.8	0.0
8:00	64	52	62	84	SSW	3.1	0.0	63	51	61	84	E	1.9	0.0	61	45	58	76	SW	3.1	0.0	65	55	63	90	WSW	3.3	0.0
9:00	64	52	62	83	S	1.8	0.0	63	52	61	82	E	1.6	0.0	61	46	58	79	SW	4.1	0.0	65	54	62	81	WSW	3.9	0.0
10:00	64	51	62	83	SW	3.6	0.0	63	52	61	83	NW	2.8	0.0	62	51	59	86	SSW	3.6	0.0	63	51	61	84	WSW	4.4	0.0
11:00	66	54	63	85	SW	2.1	0.0	65	56	62	87	NW	3.1	0.0	62	51	59	82	SSW	4.9	0.0	64	52	61	76	WSW	4.7	0.0
12:00	69	53	65	81	SW	2.8	0.0	64	54	62	80	N	2.4	0.0	62	51	59	81	SW	4.9	0.0	64	53	61	84	WSW	3.3	0.0
13:00	69	55	65	83	S	1.6	0.0	64	55	62	79	NNE	3.5	0.0					SW	5.6	0.0	63	51	61	88	SSW	3.0	0.0
14:00	64	51	62	88	S	2.2	0.0	65	56	62	82	NNE	4.6	0.0					SW	5.2	0.0	63	50	61	78	SW	4.6	0.0
15:00	63	52	61	82	S	2.8	0.0					N	6.4	0.0	61	52	59	92	SW	4.6	0.0	63	50	60	85	SSW	3.3	0.0
16:00	62	52	60	81	S	2.5	0.0					N	6.7	0.2	61	51	58	77	SW	4.2	0.0	63	51	60	85	SSW	3.8	0.0
17:00	62	52	62	93	SW	3.5	0.0					NNW	5.6	0.0	61	52	59	86	SW	4.4	0.0	62	50	59	80	SSW	3.3	0.0
18:00	62	53	60	82	SW	3.6	0.0	65	57	63	85	N	1.1	0.0	62	52	59	79	SW	4.1	0.0	62	49	59	78	SSW	3.6	0.0
19:00	63	52	61	89	SW	3.5	0.0	64	56	62	79	SW	3.1	0.0	62	50	59	75	SW	3.6	0.0	61	48	58	81	S	1.8	0.0
20:00	62	52	62	90	WSW	2.7	0.0	61	51	59	79	SW	0.8	0.0	61	51	60	91	SW	3.8	0.0	61	48	58	86	SSW	2.6	0.0
21:00	62	51	60	86	SW	2.2	0.0	60	47	58	84	SSW	3.3	0.2	61	49	58	75	S	2.7	0.0	61	48	59	85	S	2.5	0.0
22:00	61	50	64	97	SSW	1.1	0.0	60	47	57	83	SW	3.9	0.0	60	46	56	70	SSW	2.7	0.0	61	47	60	87	SSW	2.2	0.0
23:00	60	44	57	75	N	0.0	0.0	60	47	57	79	WSW	4.4	0.0	59	42	55	73	S	2.1	0.0	58	44	57	89	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$	64							63							61							63						
$L_{eq,15hr,\ 7\text{-}22h}$			62							60							59							61				
$L_{eq,9hr,\ 22\text{-}7h}$			55							57							55							54				
$L_{eq,16hr,\ 6\text{-}22h}$			62							61							58							61				
$L_{eq,8hr,\ 22\text{-}6h}$			54							57							55							53				
$L_{max,\ 24h}$				97							87							92							90			
Adverse Weather Count	0							3							2							0						

Start Time	Tuesday 13/02/2018							Wednesday 14/02/2018							Thursday 15/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	56	41	54	89	SSE	1.0	0.0	59	48	56	71	NNE	2.2	0.0	59	45	55	68	WNW	1.9	0.0
1:00	55	37	51	72	S	1.5	0.0	58	45	56	80	N	1.4	0.0	57	42	53	71	NW	1.6	0.0
2:00	54	35	49	62	N	0.6	0.0	55	41	51	64	ENE	1.4	0.0	55	41	51	61	NW	1.9	0.0
3:00	53	37	49	66	N	0.0	0.0	54	38	51	72	N	3.0	0.0	53	37	49	62	N	1.9	0.0
4:00	55	37	52	74	NNE	0.6	0.0					N	5.4	0.0	54	39	51	69	NNE	1.7	0.0
5:00	58	43	54	73	N	0.0	0.0	61	49	58	85	N	4.2	0.0	58	43	54	71	E	0.6	0.0
6:00	63	48	59	76	N	0.3	0.0					N	5.4	0.0	63	51	60	71	ENE	0.8	0.0
7:00	65	55	63	84	N	1.4	0.0	67	58	64	87	NNW	5.0	0.0	65	55	63	82	E	0.6	0.0
8:00	66	55	64	92	N	1.5	0.0					W	9.8	0.0	65	54	62	83	N	1.9	0.0
9:00	65	54	62	84	NNE	1.0	0.0					WSW	8.6	0.0	65	54	63	85	WNW	3.1	0.0
10:00	65	52	62	83	E	1.8	0.0					W	8.5	0.0	65	54	63	83	NW	3.3	0.0
11:00	64	51	61	85	NNE	0.7	0.0					W	9.4	0.0	65	53	63	88	WNW	3.3	0.0
12:00	63	50	61	84	S	1.4	0.0					W	7.9	0.0	65	53	62	84	WNW	3.6	0.0
13:00					NE	0.5	0.0					W	5.8	0.0	65	53	62	87	NW	3.5	0.0
14:00	62	49	60	89	ESE	3.1	0.0					W	6.9	0.0	65	53	62	78	SW	4.1	0.0
15:00	63	50	60	86	NE	2.8	0.0					WSW	7.8	0.0	64	53	62	80	SW	3.8	0.0
16:00	63	51	60	84	NNE	2.3	0.0					WSW	5.3	0.0	64	52	61	85	SW	3.9	0.0
17:00	63	50	60	85	N	2.5	0.0					WSW	5.0	0.0					SW	5.0	0.0
18:00	63	52	62	90	NNW	1.7	0.0					SSW	5.7	0.0	63	51	60	85	SW	3.3	0.0
19:00	63	51	60	87	NNW	2.7	0.0					SSW	5.0	0.0	63	50	61	89	SSW	2.7	0.0
20:00	62	52	60	84	NNW	1.0	0.0	62	51	60	82	SW	4.2	0.0	62	50	60	81	SW	2.1	0.0
21:00	62	51	59	82	N	0.0	0.0	62	50	59	85	WSW	4.1	0.0	62	52	59	87	SW	3.3	0.0
22:00	61	52	59	79	NE	0.3	0.0	62	50	59	76	WSW	4.1	0.0	62	50	60	79	WSW	3.3	0.0
23:00	60	50	57	70	N	2.5	0.0	60	48	57	84	W	3.3	0.0	60	47	57	72	WSW	5.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	63														64						
$L_{eq,15hr,\ 7\text{-}22h}$			61														62				
$L_{eq,9hr,\ 22\text{-}7h}$			55														56				
$L_{eq,16hr,\ 6\text{-}22h}$			61														62				
$L_{eq,8hr,\ 22\text{-}6h}$			55														55				
$L_{max,\ 24h}$				92														89			
Adverse Weather Count	1							14							1						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet — 34 Ibbottson St, Watsonia

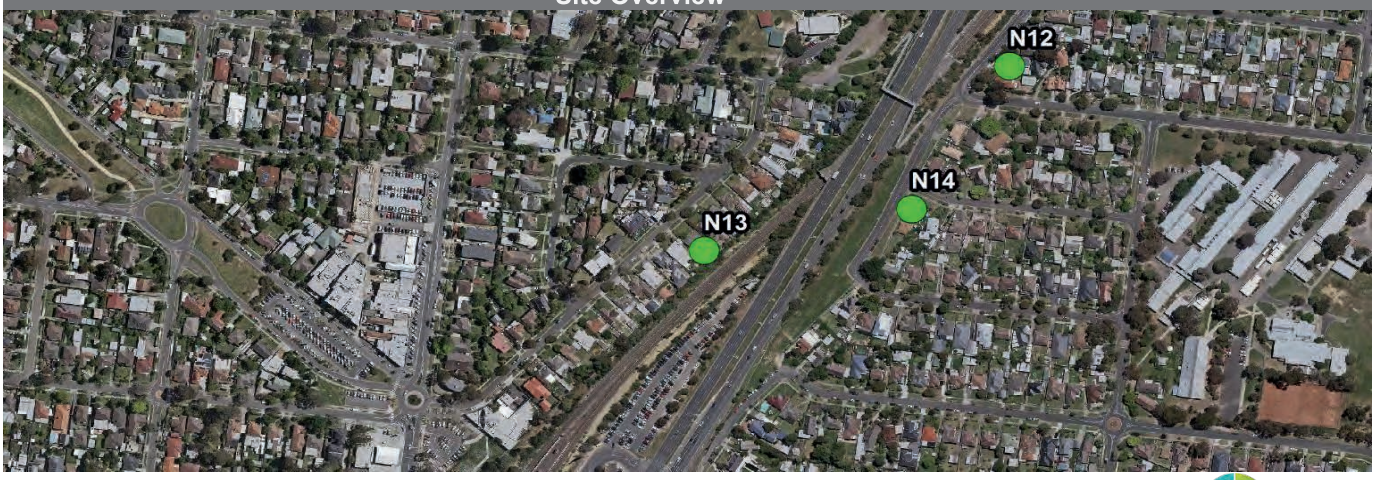
SITE ID **13**

Dominant Road	Greensborough Road	From	14/02/2018	Address	34 Ibbottson St
18-hr Traffic Flow	-	To	22/02/2018	Suburb	Watsonia
Road Surface	Stone Seal	Mic. Height (m)	1.7	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'7.60"E
Distance to Road (m)	60	Inst. Serial #	409174	Latitude	37°42'32.78"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

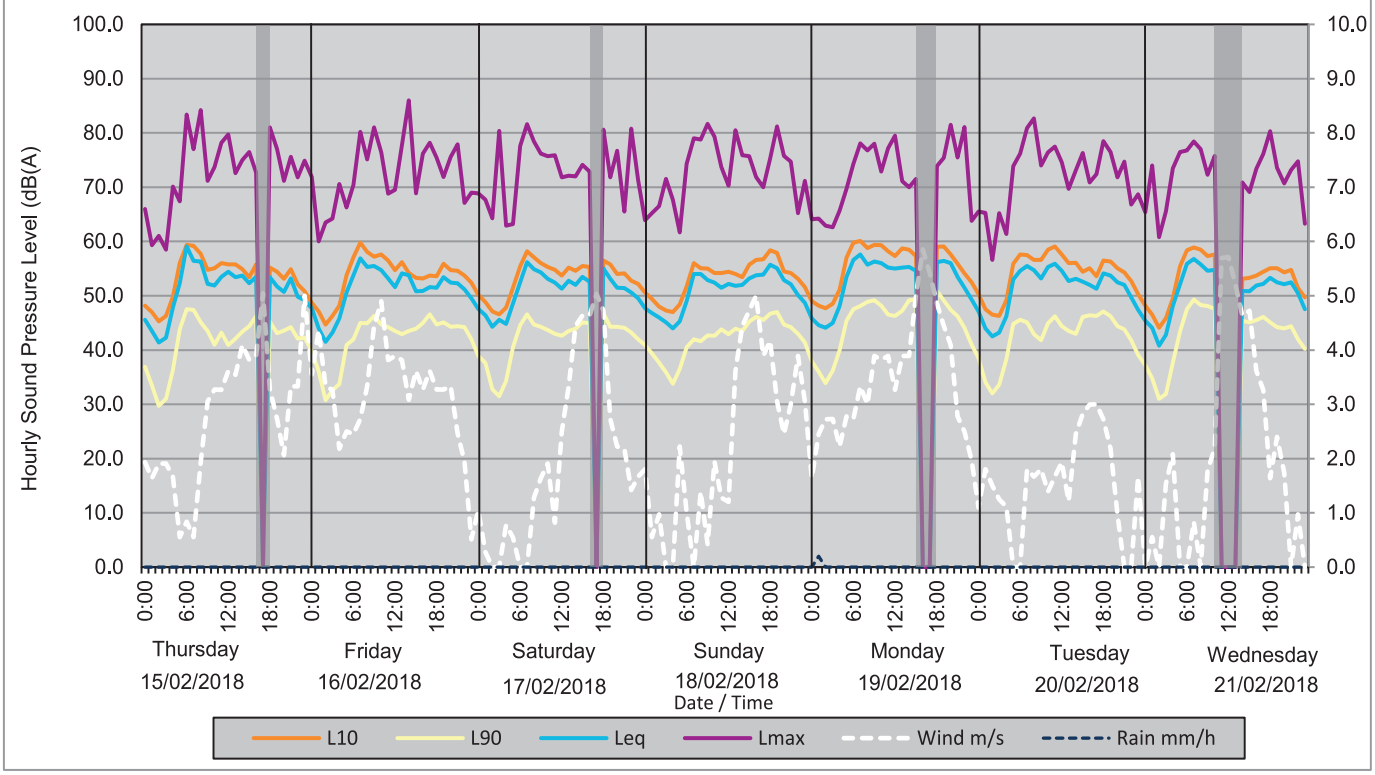
Date	Avg	15/02	16/02	17/02	18/02	19/02	20/02	21/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**56**	55 dBA	55 dBA	55 dBA	55 dBA	58 dBA	56 dBA	55 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**54**	54 dBA	53 dBA	53 dBA	53 dBA	56 dBA	54 dBA	54 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**54**	54 dBA	54 dBA	53 dBA	53 dBA	56 dBA	54 dBA	54 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**48**	48 dBA	48 dBA	48 dBA	47 dBA	49 dBA	49 dBA	48 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**50**	52 dBA	49 dBA	49 dBA	48 dBA	51 dBA	50 dBA	50 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Thursday 15/02/2018							Friday 16/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	48	37	46	66	WNW	1.9	0.0	49	40	48	72	W	3.5	0.0
1:00	47	34	44	59	NW	1.6	0.0	47	36	44	60	WSW	4.4	0.0
2:00	45	30	41	61	NW	1.9	0.0	45	31	42	64	W	3.3	0.0
3:00	46	31	42	59	N	1.9	0.0	46	33	43	64	W	3.3	0.0
4:00	50	36	48	70	NNE	1.7	0.0	48	34	46	71	WNW	2.2	0.0
5:00	56	44	52	67	E	0.6	0.0	54	41	51	66	W	2.5	0.0
6:00	59	48	59	83	ENE	0.8	0.0	57	42	54	70	W	2.4	0.0
7:00	59	47	56	77	E	0.6	0.0	60	45	57	80	WSW	2.7	0.0
8:00	58	45	56	84	N	1.9	0.0	58	45	55	75	WSW	3.3	0.0
9:00	55	44	52	71	WNW	3.1	0.0	57	46	56	81	WSW	4.4	0.0
10:00	55	41	52	74	NW	3.3	0.0	58	45	55	76	SW	4.9	0.0
11:00	56	43	54	78	WNW	3.3	0.0	57	44	53	69	SW	3.8	0.0
12:00	56	41	54	80	WNW	3.6	0.0	55	44	52	70	SW	3.9	0.0
13:00	56	42	53	73	NW	3.5	0.0	56	43	54	78	SW	3.8	0.0
14:00	55	43	54	75	SW	4.1	0.0	54	44	54	86	SSW	3.1	0.0
15:00	53	44	52	77	SW	3.8	0.0	53	44	51	69	SSW	3.6	0.0
16:00	56	46	54	73	SW	3.9	0.0	53	45	51	76	SW	3.3	0.0
17:00					SW	5.0	0.0	54	47	52	78	SW	3.6	0.0
18:00	55	45	53	81	SW	3.3	0.0	54	45	52	75	SW	3.3	0.0
19:00	54	43	52	77	SSW	2.7	0.0	56	45	53	72	SSW	3.3	0.0
20:00	53	44	51	71	SW	2.1	0.0	55	44	52	76	SSW	3.3	0.0
21:00	55	44	53	76	SW	3.3	0.0	55	44	52	78	S	2.5	0.0
22:00	52	42	50	72	WSW	3.3	0.0	54	44	51	67	S	1.9	0.0
23:00	51	42	49	75	WSW	5.0	0.0	52	42	50	69	S	0.5	0.0
$L_{10,18hr,\ 6\text{-}24h}$	55							55						
$L_{eq,15hr,\ 7\text{-}22h}$			54							53				
$L_{eq,9hr,\ 22\text{-}7h}$			52							49				
$L_{eq,16hr,\ 6\text{-}22h}$			54							54				
$L_{eq,8hr,\ 22\text{-}6h}$			48							48				
$L_{max,\ 24h}$				84							86			
Adverse Weather Count	1							0						

Start Time	Saturday 17/02/2018							Sunday 18/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	50	39	48	69	SSW	1.0	0.0	51	41	48	64	SSW	1.8	0.0
1:00	49	38	46	68	SSW	0.3	0.0	49	39	47	65	SSW	0.6	0.0
2:00	47	33	44	64	N	0.0	0.0	48	38	46	67	SW	1.0	0.0
3:00	47	32	46	80	N	0.0	0.0	47	36	45	72	N	0.0	0.0
4:00	48	34	45	63	SSE	0.8	0.0	47	34	44	68	N	0.0	0.0
5:00	52	41	49	63	SSE	0.5	0.0	48	37	45	62	SSW	2.2	0.0
6:00	55	45	53	78	N	0.0	0.0	52	41	49	74	SE	1.0	0.0
7:00	58	47	56	82	N	0.0	0.0	56	42	54	79	N	0.0	0.0
8:00	57	45	55	78	ESE	1.3	0.0	55	42	54	79	ESE	1.4	0.0
9:00	56	44	54	76	NE	1.6	0.0	55	43	53	82	S	0.4	0.0
10:00	55	44	53	76	SE	1.9	0.0	54	43	52	79	SSW	1.9	0.0
11:00	55	43	52	76	NE	0.8	0.0	54	44	52	74	S	1.3	0.0
12:00	54	43	51	72	SSW	2.5	0.0	54	43	52	70	SSW	1.2	0.0
13:00	55	44	53	72	SW	3.3	0.0	54	44	52	81	SW	3.6	0.0
14:00	55	44	52	72	SW	4.4	0.0	53	44	52	76	SW	4.4	0.0
15:00	56	45	54	74	SW	4.6	0.0	56	45	53	76	SW	4.7	0.0
16:00	55	45	53	73	SSW	4.6	0.0	57	46	54	72	SSW	5.0	0.0
17:00					SSW	5.0	0.0	57	46	54	70	S	3.9	0.0
18:00	57	47	55	81	SSW	4.7	0.0	58	47	56	75	S	4.2	0.0
19:00	56	44	53	72	S	2.7	0.0	58	47	55	81	S	3.1	0.0
20:00	54	44	52	77	S	2.2	0.0	55	45	53	76	S	2.4	0.0
21:00	54	44	51	66	S	2.2	0.0	54	44	52	75	SSW	3.0	0.0
22:00	53	43	51	81	S	1.4	0.0	53	43	50	65	SSW	3.9	0.0
23:00	52	42	50	71	SSW	1.7	0.0	52	41	49	71	SSW	3.1	0.0
$L_{10,18hr,\ 6\text{-}24h}$	55							55						
$L_{eq,15hr,\ 7\text{-}22h}$			53							53				
$L_{eq,9hr,\ 22\text{-}7h}$			49							48				
$L_{eq,16hr,\ 6\text{-}22h}$			53							53				
$L_{eq,8hr,\ 22\text{-}6h}$			48							47				
$L_{max,\ 24h}$				82							82			
Adverse Weather Count	1							0						

Start Time	Monday 19/02/2018							Tuesday 20/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	49	38	46	64	S	1.6	0.0	50	39	47	66	SE	1.1	0.0
1:00	48	36	45	64	SSW	2.5	0.2	48	34	44	65	S	1.8	0.0
2:00	48	34	44	63	SSW	2.7	0.0	47	32	43	57	S	1.5	0.0
3:00	49	36	45	63	SSW	2.7	0.0	46	34	43	65	SSW	1.3	0.0
4:00	51	40	48	66	SSW	2.2	0.0	49	38	46	61	SSW	1.1	0.0
5:00	57	45	54	70	S	2.8	0.0	56	45	53	74	N	0.0	0.0
6:00	60	48	57	74	SSE	2.7	0.0	58	46	55	76	N	0.0	0.0
7:00	60	48	58	78	S	3.3	0.0	58	45	56	81	SW	1.8	0.0
8:00	59	49	56	77	S	3.0	0.0	57	43	55	83	SW	1.7	0.0
9:00	59	49	56	78	SSE	3.9	0.0	57	42	53	74	SW	1.8	0.0
10:00	59	48	56	73	S	3.8	0.0	59	45	55	76	W	1.4	0.0
11:00	58	47	55	77	SSE	3.9	0.0	59	46	56	78	SW	1.7	0.0
12:00	57	46	55	80	SE	3.3	0.0	58	44	55	75	ESE	1.9	0.0
13:00	59	47	55	71	SSW	3.9	0.0	56	44	53	70	SE	1.2	0.0
14:00	59	49	55	70	SSW	3.9	0.0	56	43	53	73	S	2.5	0.0
15:00	57	49	55	72	SSW	5.0	0.0	54	46	53	76	S	2.8	0.0
16:00					S	5.9	0.0	55	46	52	71	S	3.0	0.0
17:00					S	5.4	0.0	54	46	51	72	SW	3.0	0.0
18:00	59	51	56	74	S	4.9	0.0	57	47	54	79	SSW	2.7	0.0
19:00	59	49	56	75	S	4.4	0.0	56	46	54	77	SSW	2.2	0.0
20:00	58	47	56	82	SE	4.1	0.0	55	44	53	72	S	1.0	0.0
21:00	56	46	54	76	SE	2.8	0.0	54	44	52	75	N	0.0	0.0
22:00	54	44	52	81	SE	2.5	0.0	53	42	50	67	N	0.0	0.0
23:00	53	41	49	64	ESE	2.0	0.0	50	39	47	69	E	1.7	0.0
$L_{10,18hr,\ 6\text{-}24h}$	58							56						
$L_{eq,15hr,\ 7\text{-}22h}$			56							54				
$L_{eq,9hr,\ 22\text{-}7h}$			51							50				
$L_{eq,16hr,\ 6\text{-}22h}$			56							54				
$L_{eq,8hr,\ 22\text{-}6h}$			49							49				
$L_{max,\ 24h}$				82							83			
Adverse Weather Count	2							0						

Start Time	Wednesday 21/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	48	37	45	65	N	0.0	0.0
1:00	47	35	44	74	NE	0.6	0.0
2:00	44	31	41	61	N	0.0	0.0
3:00	46	32	43	66	ENE	1.5	0.0
4:00	50	38	48	74	E	2.1	0.0
5:00	55	43	52	77	N	0.0	0.0
6:00	58	48	56	77	N	0.0	0.0
7:00	59	49	57	78	E	0.8	0.0
8:00	59	48	56	77	N	0.0	0.0
9:00	57	48	55	72	ENE	1.8	0.0
10:00	58	48	55	76	ENE	2.2	0.0
11:00					NNE	5.7	0.0
12:00					NNE	5.7	0.0
13:00					N	5.2	0.0
14:00	53	45	51	71	N	4.6	0.0
15:00	53	45	51	69	N	4.7	0.0
16:00	54	46	52	73	N	3.6	0.0
17:00	54	46	52	76	N	3.3	0.0
18:00	55	45	53	80	NE	1.6	0.0
19:00	55	44	53	74	N	2.4	0.0
20:00	54	44	52	71	N	1.7	0.0
21:00	55	44	53	73	N	0.0	0.0
22:00	51	42	51	75	ENE	1.0	0.0
23:00	50	40	48	63	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	55						
$L_{eq,15hr,\ 7\text{-}22h}$			54				
$L_{eq,9hr,\ 22\text{-}7h}$			50				
$L_{eq,16hr,\ 6\text{-}22h}$			54				
$L_{eq,8hr,\ 22\text{-}6h}$			48				
$L_{max,\ 24h}$				80			
Adverse Weather Count	3						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet

462 Greensborough Rd, Watsonia

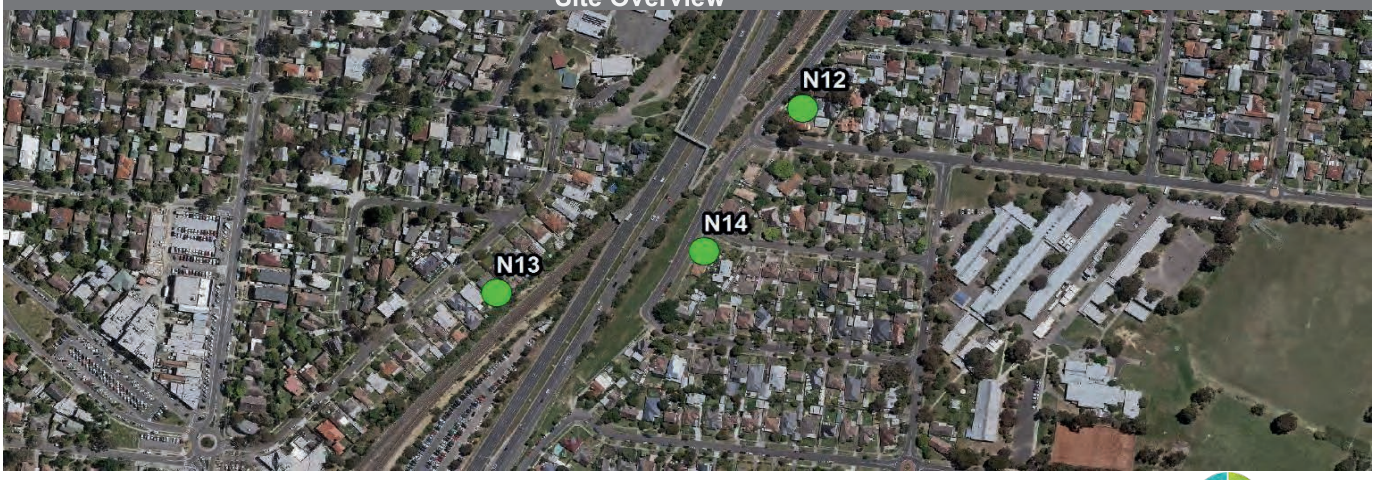
SITE ID
14

Dominant Road	Greensborough Road	From	17/02/2018	Address	462 Greensborough Rd
18-hr Traffic Flow	-	To	22/02/2018	Suburb	Watsonia
Road Surface	Stone Seal	Mic. Height (m)	1.7	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'14.44"E
Distance to Road (m)	45	Inst. Serial #	465445	Latitude	37°42'31.72"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

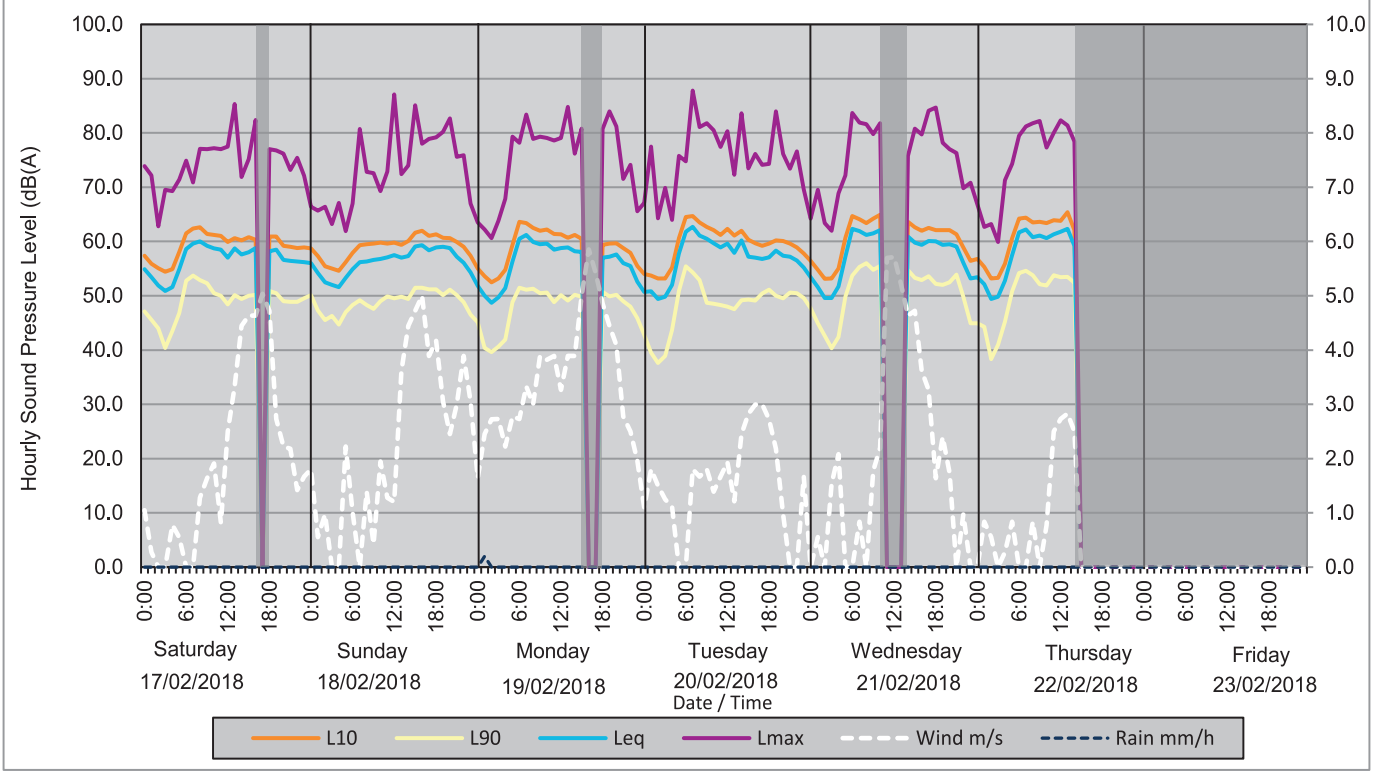
Date	Avg	17/02	18/02	19/02	20/02	21/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**61**	61 dBA	60 dBA	61 dBA	61 dBA	62 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**59**	58 dBA	57 dBA	59 dBA	59 dBA	61 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**59**	58 dBA	58 dBA	59 dBA	59 dBA	61 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**54**	54 dBA	54 dBA	53 dBA	53 dBA	54 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**55**	55 dBA	54 dBA	55 dBA	56 dBA	56 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Saturday 17/02/2018							Sunday 18/02/2018							Monday 19/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	57	47	55	74	SSW	1.0	0.0	59	50	56	66	SSW	1.8	0.0	55	45	52	64	S	1.6	0.0
1:00	56	46	53	72	SSW	0.3	0.0	57	47	54	66	SSW	0.6	0.0	54	40	50	62	SSW	2.5	0.2
2:00	55	44	52	63	N	0.0	0.0	55	46	53	66	SW	1.0	0.0	53	40	49	61	SSW	2.7	0.0
3:00	54	40	51	70	N	0.0	0.0	55	46	52	63	N	0.0	0.0	53	41	50	64	SSW	2.7	0.0
4:00	55	44	52	69	SSE	0.8	0.0	55	45	52	67	N	0.0	0.0	55	42	51	68	SSW	2.2	0.0
5:00	58	47	55	71	SSE	0.5	0.0	56	47	53	62	SSW	2.2	0.0	59	49	56	79	S	2.8	0.0
6:00	62	53	59	75	N	0.0	0.0	58	48	55	67	SE	1.0	0.0	64	52	61	78	SSE	2.7	0.0
7:00	62	54	60	71	N	0.0	0.0	59	49	56	81	N	0.0	0.0	63	51	61	83	S	3.3	0.0
8:00	63	53	60	77	ESE	1.3	0.0	60	48	56	73	ESE	1.4	0.0	63	51	60	79	S	3.0	0.0
9:00	61	52	59	77	NE	1.6	0.0	60	48	57	73	S	0.4	0.0	62	51	60	79	SSE	3.9	0.0
10:00	61	51	59	77	SE	1.9	0.0	60	49	57	69	SSW	1.9	0.0	62	51	60	79	S	3.8	0.0
11:00	61	50	59	77	NE	0.8	0.0	60	50	57	73	S	1.3	0.0	61	49	59	79	SSE	3.9	0.0
12:00	60	48	57	78	SSW	2.5	0.0	60	50	58	87	SSW	1.2	0.0	61	50	59	79	SE	3.3	0.0
13:00	61	50	59	85	SW	3.3	0.0	59	50	57	72	SW	3.6	0.0	61	49	59	85	SSW	3.9	0.0
14:00	60	49	58	72	SW	4.4	0.0	60	49	57	74	SW	4.4	0.0	61	50	58	76	SSW	3.9	0.0
15:00	61	50	58	75	SW	4.6	0.0	62	52	59	85	SW	4.7	0.0	61	50	58	81	SSW	5.0	0.0
16:00	60	50	59	82	SSW	4.6	0.0	62	52	59	78	SSW	5.0	0.0					S	5.9	0.0
17:00					SSW	5.0	0.0	61	51	58	79	S	3.9	0.0					S	5.4	0.0
18:00	61	51	58	77	SSW	4.7	0.0	61	51	59	79	S	4.2	0.0	59	51	57	81	S	4.9	0.0
19:00	61	51	59	77	S	2.7	0.0	61	50	59	80	S	3.1	0.0	60	50	57	84	S	4.4	0.0
20:00	59	49	57	76	S	2.2	0.0	61	51	59	83	S	2.4	0.0	60	50	58	81	SE	4.1	0.0
21:00	59	49	56	73	S	2.2	0.0	60	50	57	76	SSW	3.0	0.0	59	49	56	72	SE	2.8	0.0
22:00	59	49	56	75	S	1.4	0.0	59	49	56	76	SSW	3.9	0.0	58	48	56	74	SE	2.5	0.0
23:00	59	50	56	72	SSW	1.7	0.0	57	47	54	67	SSW	3.1	0.0	56	46	53	66	ESE	2.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	61							60							61						
$L_{eq,15hr,\ 7\text{-}22h}$			58							57							59				
$L_{eq,9hr,\ 22\text{-}7h}$			55							54							55				
$L_{eq,16hr,\ 6\text{-}22h}$			58							58							59				
$L_{eq,8hr,\ 22\text{-}6h}$			54							54							53				
$L_{max,\ 24h}$				85							87							85			
Adverse Weather Count	1							0							2						

Start Time	Tuesday 20/02/2018							Wednesday 21/02/2018							Thursday 22/02/2018							Friday 23/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	54	43	51	67	SE	1.1	0.0	56	48	53	64	N	0.0	0.0	57	45	53	67	N	0.0	0.0							0.0
1:00	54	40	51	78	S	1.8	0.0	55	45	52	70	NE	0.6	0.0	55	44	52	63	N	0.8	0.0							0.0
2:00	53	38	49	64	S	1.5	0.0	53	43	50	63	N	0.0	0.0	53	38	49	63	SE	0.6	0.0							0.0
3:00	53	39	50	70	SSW	1.3	0.0	53	40	50	62	ENE	1.5	0.0	53	41	50	60	N	0.0	0.0							0.0
4:00	55	44	52	64	SSW	1.1	0.0	55	42	52	69	E	2.1	0.0	56	45	53	71	NE	0.3	0.0							0.0
5:00	61	51	58	76	N	0.0	0.0	61	50	57	72	N	0.0	0.0	61	51	58	74	NE	0.8	0.0							0.0
6:00	65	55	62	75	N	0.0	0.0	65	54	62	84	N	0.0	0.0	64	54	62	80	N	0.0	0.0							0.0
7:00	65	54	63	88	SW	1.8	0.0	64	55	62	82	E	0.8	0.0	64	55	62	81	N	0.0	0.0							0.0
8:00	64	53	61	81	SW	1.7	0.0	63	56	61	82	N	0.0	0.0	64	54	61	82	NE	0.8	0.0							0.0
9:00	63	49	61	82	SW	1.8	0.0	64	55	62	80	ENE	1.8	0.0	64	52	61	82	N	0.0	0.0							0.0
10:00	62	49	60	81	W	1.4	0.0	65	56	62	82	ENE	2.2	0.0	63	52	61	77	NE	0.8	0.0							0.0
11:00	61	48	59	77	SW	1.7	0.0					NNE	5.7	0.0	64	54	61	80	NNE	2.5	0.0							0.0
12:00	62	48	60	80	ESE	1.9	0.0					NNE	5.7	0.0	64	53	62	82	ENE	2.7	0.0							0.0
13:00	61	48	58	72	SE	1.2	0.0					N	5.2	0.0	65	54	62	81	NE	2.8	0.0							0.0
14:00	62	49	60	84	S	2.5	0.0	64	55	61	76	N	4.6	0.0	62	52	59	78	ENE	2.5	0.0							0.0
15:00	60	49	57	74	S	2.8	0.0	63	53	60	81	N	4.7	0.0							0.0							0.0
16:00	60	49	57	76	S	3.0	0.0	62	53	59	80	N	3.6	0.0							0.0							0.0
17:00	59	50	57	74	SW	3.0	0.0	63	54	60	84	N	3.3	0.0							0.0							0.0
18:00	60	51	57	74	SSW	2.7	0.0	62	52	60	85	NE	1.6	0.0							0.0							0.0
19:00	60	50	58	84	SSW	2.2	0.0	62	52	59	78	N	2.4	0.0							0.0							0.0
20:00	60	50	57	76	S	1.0	0.0	62	53	60	77	N	1.7	0.0							0.0							0.0
21:00	60	51	57	73	N	0.0	0.0	61	54	59	76	N	0.0	0.0							0.0							0.0
22:00	59	51	57	77	N	0.0	0.0	59	50	56	70	ENE	1.0	0.0							0.0							0.0
23:00	58	50	55	70	E	1.7	0.0	56	45	53	71	N	0.0	0.0							0.0							0.0
$L_{10,18hr,\ 6\text{-}24h}$	61							62																				
$L_{eq,15hr,\ 7\text{-}22h}$			59							61																		
$L_{eq,9hr,\ 22\text{-}7h}$			56							56																		
$L_{eq,16hr,\ 6\text{-}22h}$			59							61																		
$L_{eq,8hr,\ 22\text{-}6h}$			53							54																		
$L_{max,\ 24h}$				88							85																	
Adverse Weather Count	0							3							9							24						

Project No. 60539390 Project:NEL noise monitoring - Residential

Noise Monitoring Data Sheet

319 Greensborough Road, Watsonia

SITE ID
15

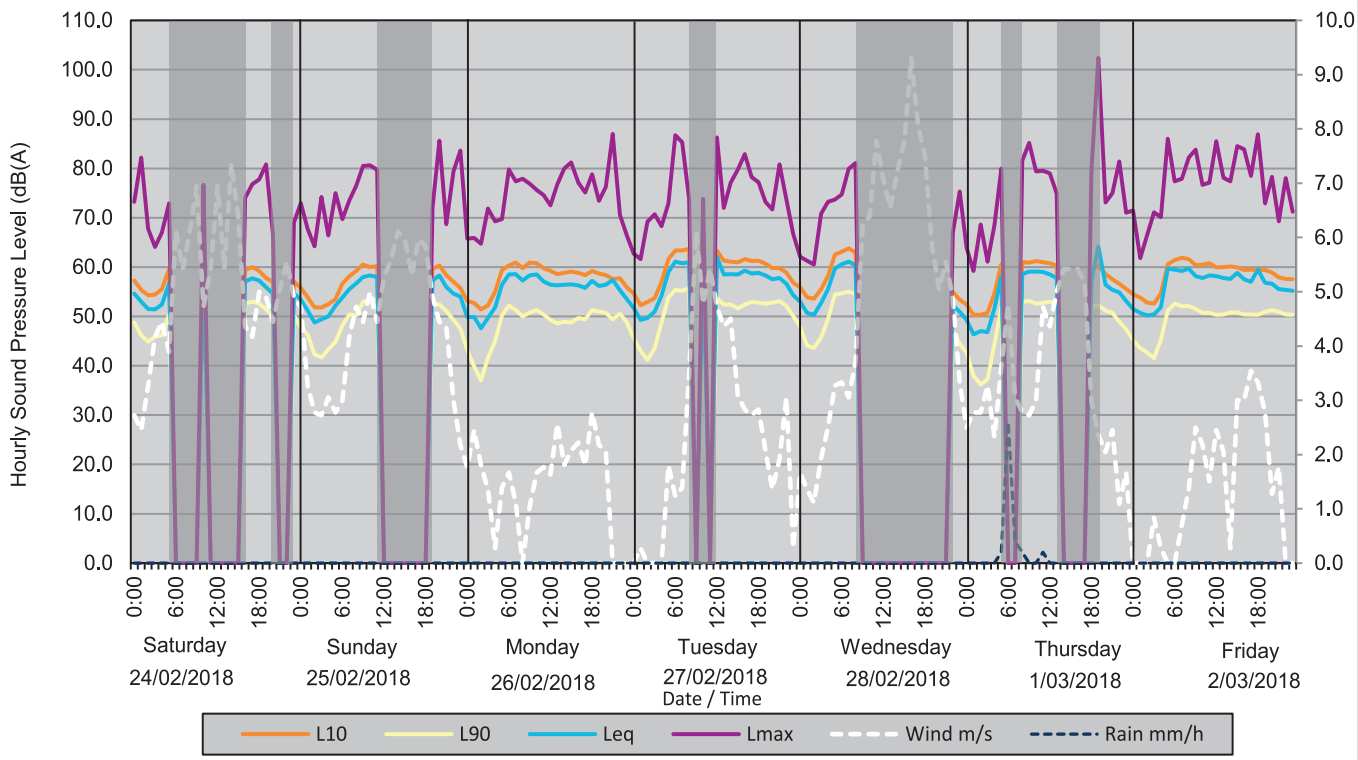
Dominant Road	Greensborough Road	From	24/02/2018	Address	319 Greensborough Road
18-hr Traffic Flow	-	To	6/03/2018	Suburb	Watsonia
Road Surface	Stone Seal	Mic. Height (m)	2	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Façade	Longitude	145° 4'54.23"E
Distance to Road (m)	50	Inst. Serial #	354110	Latitude	37°42'54.13"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	26/02	27/02	2/03	3/03	4/03
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**59**	59 dBA	61 dBA	60 dBA	59 dBA	57 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**58**	57 dBA	59 dBA	58 dBA	57 dBA	55 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**58**	57 dBA	60 dBA	58 dBA	57 dBA	56 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**53**	53 dBA	54 dBA	54 dBA	54 dBA	51 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**54**	54 dBA	56 dBA	55 dBA	55 dBA	52 dBA

Site Zoom

Site Overview

Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Saturday 24/02/2018							Sunday 25/02/2018							Monday 26/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	57	49	55	73	ENE	2.7	0.0	56	48	53	73	SSW	4.7	0.0	53	43	50	66	S	1.8	0.0
1:00	55	46	53	82	ENE	2.4	0.0	54	46	51	68	SSW	3.3	0.0	53	40	50	66	S	2.4	0.0
2:00	54	45	52	68	NNE	3.3	0.0	52	42	49	64	SSW	2.8	0.0	51	37	48	65	SSE	1.8	0.0
3:00	54	46	51	64	NNE	4.2	0.0	52	42	49	74	SSW	2.7	0.0	52	42	50	72	SSW	1.4	0.0
4:00	56	46	52	67	NNE	4.4	0.0	53	43	50	66	S	3.1	0.0	55	45	52	69	S	0.3	0.0
5:00	60	51	57	73	N	3.9	0.0	54	45	52	75	S	2.8	0.0	59	50	56	70	SSW	1.4	0.0
6:00					N	6.1	0.0	57	48	54	70	SSW	3.0	0.0	60	52	59	80	SSW	1.7	0.0
7:00					N	5.4	0.0	58	50	56	74	SSW	4.2	0.0	61	51	59	77	SSW	1.1	0.0
8:00					N	6.1	0.0	59	50	57	77	SSW	4.7	0.0	60	50	57	78	N	0.0	0.0
9:00					N	6.9	0.0	61	53	58	81	S	4.4	0.0	61	51	58	77	S	1.0	0.0
10:00	61	53	59	77	NNW	4.7	0.0	60	53	58	81	S	5.0	0.0	61	51	59	76	SSE	1.7	0.0
11:00					NW	5.4	0.0	60	53	58	80	S	4.4	0.0	60	50	57	75	E	1.8	0.0
12:00					SSW	6.9	0.0					SSW	5.3	0.0	59	49	56	73	SSE	1.6	0.0
13:00					SSW	5.4	0.0					SSW	5.6	0.0	59	49	56	77	WNW	2.6	0.0
14:00					SW	7.4	0.0					SSW	6.1	0.0	59	49	56	80	WSW	1.8	0.0
15:00					SW	6.4	0.0					SSW	6.0	0.0	59	49	57	81	W	2.1	0.0
16:00	59	53	57	74	SW	4.4	0.0					SSW	5.3	0.0	59	50	56	77	W	2.2	0.0
17:00	60	53	58	77	SSW	4.2	0.0					SSW	6.0	0.0	58	49	56	75	SW	1.8	0.0
18:00	59	53	57	78	SSW	5.0	0.0					SSW	5.8	0.0	59	51	57	79	SSW	2.8	0.0
19:00	58	51	56	81	SSW	4.9	0.0	60	53	57	72	SSW	4.9	0.0	59	51	56	73	SSW	2.2	0.0
20:00	57	50	55	67	SSW	4.4	0.0	60	52	58	86	S	4.4	0.0	58	51	56	76	SSE	2.0	0.0
21:00					SSW	5.0	0.0	58	51	56	69	SSE	4.4	0.0	58	49	57	87	N	0.0	0.0
22:00					SSW	5.6	0.0	57	49	55	79	SE	3.0	0.0	58	51	55	71	N	0.0	0.0
23:00	57	50	55	69	S	4.9	0.0	56	48	54	84	SE	2.2	0.0	56	49	54	66	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$															59						
$L_{eq,15hr,\ 7\text{-}22h}$																	57				
$L_{eq,9hr,\ 22\text{-}7h}$																	54				
$L_{eq,16hr,\ 6\text{-}22h}$																	57				
$L_{eq,8hr,\ 22\text{-}6h}$																	53				
$L_{max,\ 24h}$																		87			
Adverse Weather Count	11							7							0						

Start Time	Tuesday 27/02/2018							Wednesday 28/02/2018							Thursday 01/03/2018							Friday 02/03/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	55	46	52	63	N	0.0	0.0	56	48	53	62	ENE	1.7	0.0	52	43	49	64	WSW	2.5	0.0	55	45	52	72	N	0.0	0.0
1:00	52	43	49	62	E	0.3	0.0	54	44	51	61	NE	1.4	0.0	50	38	46	59	W	2.8	0.0	54	44	51	62	N	0.0	0.0
2:00	53	41	50	69	N	0.0	0.0	54	44	50	61	E	1.1	0.0	50	36	47	69	W	2.8	0.0	53	43	50	67	N	0.0	0.0
3:00	54	44	51	71	N	0.0	0.0	56	46	53	71	NE	1.9	0.0	51	37	47	61	WSW	3.3	0.0	53	42	50	71	SE	0.8	0.0
4:00	57	49	54	68	N	0.0	0.0	58	50	56	73	ENE	2.5	0.0	55	44	52	69	WSW	2.3	0.0	55	45	52	70	SE	0.3	0.0
5:00	62	54	59	73	ENE	1.8	0.0	63	54	60	74	NE	3.3	0.0	61	52	58	80	SW	3.6	0.2	61	51	60	86	N	0.0	0.0
6:00	63	55	61	87	ENE	1.2	0.0	63	55	61	75	NE	3.3	0.0					SSW	4.8	2.6	61	53	60	77	N	0.0	0.0
7:00	63	55	61	85	ENE	1.4	0.0	64	55	61	80	ENE	3.1	0.0					SSW	3.1	0.4	62	52	59	78	S	0.7	0.0
8:00	64	56	61	74	NE	3.5	0.0	63	55	60	81	NNE	3.7	0.0	61	53	59	82	SSW	2.8	0.2	62	52	60	82	SSE	1.4	0.0
9:00					NNE	6.1	0.0					N	6.2	0.0	61	53	59	85	S	2.7	0.0	60	52	58	84	S	2.5	0.0
10:00	63	54	60	74	NNE	4.8	0.0					NNE	6.4	0.0	61	53	59	79	S	3.0	0.0	61	51	58	77	SW	2.2	0.0
11:00					N	5.4	0.0					NNW	7.8	0.0	61	53	59	80	SSW	4.7	0.2	61	51	58	77	ESE	1.5	0.0
12:00	63	54	62	86	NNE	4.7	0.0					NW	7.1	0.0	61	53	59	79	SSW	4.4	0.0	60	50	58	86	S	2.4	0.0
13:00	61	52	59	72	NNE	4.4	0.0					WNW	6.5	0.0	60	53	58	75	SW	5.0	0.0	60	50	58	78	S	2.1	0.0
14:00	61	52	59	77	NNE	4.5	0.0					W	7.2	0.0					SW	5.4	0.0	60	51	58	77	WSW	0.3	0.0
15:00	61	52	59	80	ENE	3.1	0.0					W	7.8	0.0					SW	5.4	0.0	60	51	59	85	W	3.0	0.0
16:00	62	52	59	83	NE	2.8	0.0					W	9.3	0.0					SW	5.4	0.0	59	50	58	84	W	3.0	0.0
17:00	61	53	59	78	NNE	2.7	0.0					W	8.1	0.0					SW	5.2	0.0	60	50	57	79	W	3.5	0.0
18:00	61	53	59	77	NE	2.8	0.0					WSW	7.5	0.0	60	52	57	80	SSW	3.0	0.0	59	50	60	87	W	3.3	0.0
19:00	61	53	58	73	ENE	2.1	0.0					WSW	5.9	0.0	60	52	64	##	S	2.4	0.0	59	51	57	73	W	2.8	0.0
20:00	60	53	58	72	E	1.4	0.0					WSW	5.0	0.0	59	51	56	73	SSW	2.0	0.0	59	51	57	78	SW	1.3	0.0
21:00	60	53	58	81	E	1.9	0.0					W	5.6	0.0	58	51	55	75	SSW	2.5	0.0	58	51	56	69	SSW	1.8	0.0
22:00	59	52	57	74	NNE	3.1	0.0	55	47	52	67	W	4.9	0.0	57	49	55	81	SSE	1.1	0.0	58	50	55	78	N	0.0	0.0
23:00	57	50	54	67	ESE	0.3	0.0	53	44	51	75	WSW	3.3	0.0	56	47	53	71	SSW	1.7	0.0	58	50	55	71	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	61																					60						
$L_{eq,15hr,\ 7\text{-}22h}$			59																					58				
$L_{eq,9hr,\ 22\text{-}7h}$			56																					55				
$L_{eq,16hr,\ 6\text{-}22h}$			60																					58				
$L_{eq,8hr,\ 22\text{-}6h}$			54																					54				
$L_{max,\ 24h}$				87																					87			
Adverse Weather Count	2							13							6							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

Noise Monitoring Data Sheet — 384 Service Rd, Watsonia

SITE ID **15**

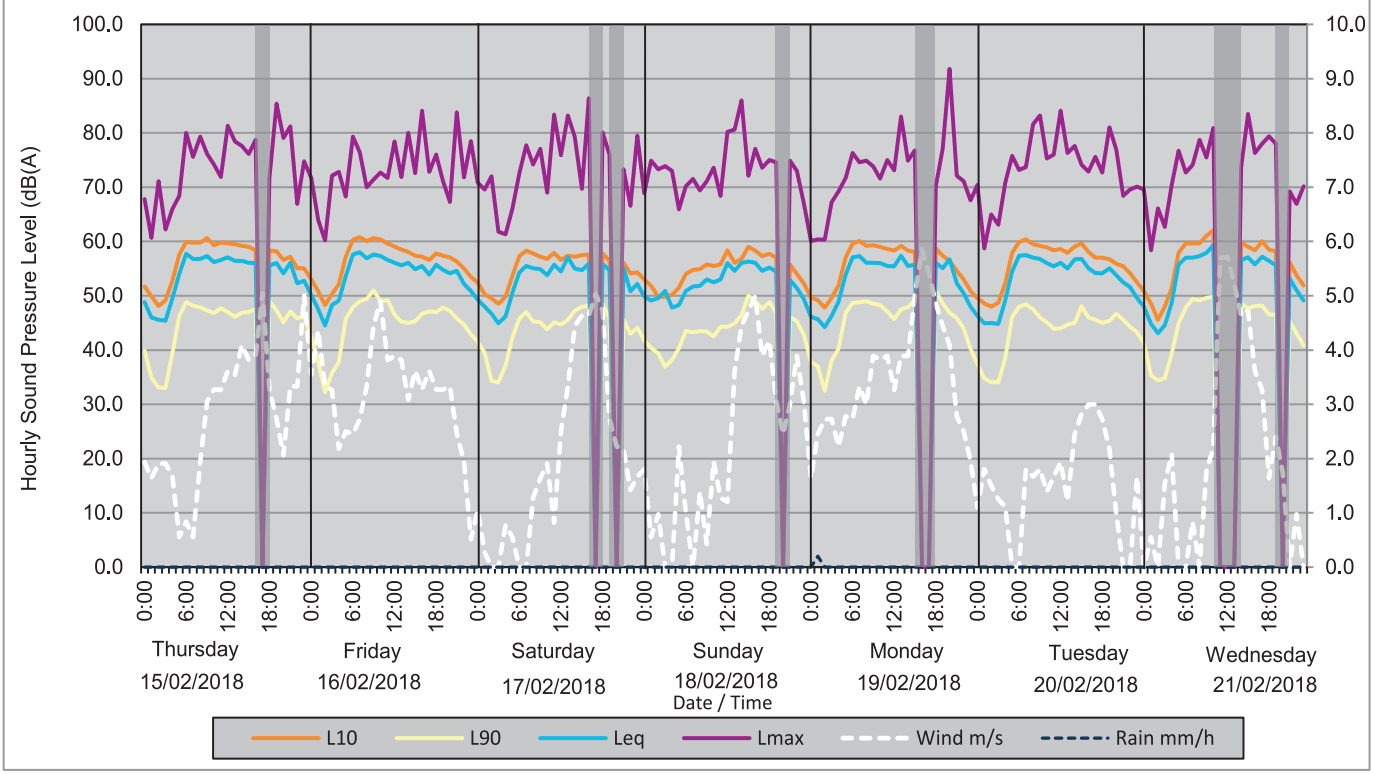
Dominant Road	Greensborough Road	From	15/02/2018	Address	384 Service Rd
18-hr Traffic Flow	-	To	22/02/2018	Suburb	Watsonia
Road Surface	Stone Seal	Mic. Height (m)	1.8	State	Victoria
Posted Speed (km/h)	80	Meas. Type	Façade	Longitude	145° 5'1.91"E
Distance to Road (m)	43	Inst. Serial #	175537	Latitude	37°42'49.40"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	15/02	16/02	17/02	18/02	19/02	20/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**57**	59 dBA	58 dBA	57 dBA	56 dBA	58 dBA	58 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**56**	56 dBA	56 dBA	55 dBA	54 dBA	56 dBA	56 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**56**	56 dBA	56 dBA	55 dBA	54 dBA	56 dBA	56 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**50**	51 dBA	51 dBA	49 dBA	50 dBA	49 dBA	49 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**51**	52 dBA	52 dBA	50 dBA	50 dBA	51 dBA	51 dBA

Site Zoom

Site Overview

Site Noise and Weather Graphical Analysis



Site Photograph

Project No. 60539390 Project:NEL noise monitoring - Residential

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Thursday 15/02/2018							Friday 16/02/2018							Saturday 17/02/2018							Sunday 18/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	52	40	49	68	WNW	1.9	0.0	53	42	50	72	W	3.5	0.0	52	42	49	71	SSW	1.0	0.0	53	42	50	69	SSW	1.8	0.0
1:00	50	35	46	61	NW	1.6	0.0	51	38	48	64	WSW	4.4	0.0	50	40	48	70	SSW	0.3	0.0	52	40	49	75	SSW	0.6	0.0
2:00	48	33	46	71	NW	1.9	0.0	48	32	45	60	W	3.3	0.0	50	34	47	72	N	0.0	0.0	50	39	50	73	SW	1.0	0.0
3:00	49	33	45	62	N	1.9	0.0	50	36	48	72	W	3.3	0.0	49	34	45	62	N	0.0	0.0	50	37	51	74	N	0.0	0.0
4:00	53	39	50	66	NNE	1.7	0.0	52	38	49	73	WNW	2.2	0.0	50	37	46	61	SSE	0.8	0.0	50	38	48	73	N	0.0	0.0
5:00	58	46	54	68	E	0.6	0.0	57	46	54	68	W	2.5	0.0	54	42	51	66	SSE	0.5	0.0	52	40	48	66	SSW	2.2	0.0
6:00	60	49	58	80	ENE	0.8	0.0	60	48	58	79	W	2.4	0.0	57	46	54	73	N	0.0	0.0	54	44	51	70	SE	1.0	0.0
7:00	60	48	57	76	E	0.6	0.0	61	49	58	76	WSW	2.7	0.0	58	47	56	78	N	0.0	0.0	55	43	52	72	N	0.0	0.0
8:00	60	48	57	79	N	1.9	0.0	60	49	57	70	WSW	3.3	0.0	58	45	55	74	ESE	1.3	0.0	55	44	52	69	ESE	1.4	0.0
9:00	61	47	57	76	WNW	3.1	0.0	61	51	58	71	WSW	4.4	0.0	57	45	55	77	NE	1.6	0.0	56	43	53	71	S	0.4	0.0
10:00	59	47	56	74	NW	3.3	0.0	60	49	57	73	SW	4.9	0.0	57	44	54	69	SE	1.9	0.0	56	43	53	74	SSW	1.9	0.0
11:00	60	48	57	72	WNW	3.3	0.0	60	49	57	72	SW	3.8	0.0	58	45	56	83	NE	0.8	0.0	56	44	53	68	S	1.3	0.0
12:00	60	47	57	81	WNW	3.6	0.0	59	47	56	78	SW	3.9	0.0	57	45	55	76	SSW	2.5	0.0	58	44	56	80	SSW	1.2	0.0
13:00	60	46	56	78	NW	3.5	0.0	59	45	56	72	SW	3.8	0.0	57	46	57	83	SW	3.3	0.0	56	45	55	81	SW	3.6	0.0
14:00	59	47	56	78	SW	4.1	0.0	58	45	56	80	SSW	3.1	0.0	57	47	55	79	SW	4.4	0.0	57	46	56	86	SW	4.4	0.0
15:00	59	47	56	76	SW	3.8	0.0	57	45	55	73	SSW	3.6	0.0	58	48	55	70	SW	4.6	0.0	59	50	56	72	SW	4.7	0.0
16:00	58	48	56	79	SW	3.9	0.0	57	47	56	84	SW	3.3	0.0	58	48	56	86	SSW	4.6	0.0	58	49	56	77	SSW	5.0	0.0
17:00					SW	5.0	0.0	57	47	54	73	SW	3.6	0.0					SSW	5.0	0.0	57	48	55	74	S	3.9	0.0
18:00	58	49	56	72	SW	3.3	0.0	58	47	56	76	SW	3.3	0.0	58	49	56	80	SSW	4.7	0.0	58	49	55	75	S	4.2	0.0
19:00	58	47	56	85	SSW	2.7	0.0	57	48	55	71	SSW	3.3	0.0	57	46	55	76	S	2.7	0.0	57	47	55	75	S	3.1	0.0
20:00	57	45	54	79	SW	2.1	0.0	57	47	54	67	SSW	3.3	0.0					S	2.2	0.0					S	2.4	0.0
21:00	57	47	56	81	SW	3.3	0.0	56	46	55	84	S	2.5	0.0	56	46	55	73	S	2.2	0.0	56	46	53	75	SSW	3.0	0.0
22:00	55	46	52	67	WSW	3.3	0.0	55	45	52	72	S	1.9	0.0	54	43	51	67	S	1.4	0.0	54	45	51	73	SSW	3.9	0.0
23:00	55	46	53	75	WSW	5.0	0.0	54	43	51	79	S	0.5	0.0	54	44	52	80	SSW	1.7	0.0	52	43	49	67	SSW	3.1	0.0
$L_{10,18hr,\ 6\text{-}24h}$	59							58							57							56						
$L_{eq,15hr,\ 7\text{-}22h}$			56							56							55							54				
$L_{eq,9hr,\ 22\text{-}7h}$			52							52							50							50				
$L_{eq,16hr,\ 6\text{-}22h}$			56							56							55							54				
$L_{eq,8hr,\ 22\text{-}6h}$			51							51							49							50				
$L_{max,\ 24h}$				85							84							86							86			
Adverse Weather Count	1							0							2							1						

Start Time	Monday 19/02/2018							Tuesday 20/02/2018							Wednesday 21/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	50	38	46	60	S	1.6	0.0	50	37	46	70	SE	1.1	0.0	51	41	48	70	N	0.0	0.0
1:00	49	37	46	60	SSW	2.5	0.2	49	35	45	59	S	1.8	0.0	49	35	45	58	NE	0.6	0.0
2:00	48	33	44	60	SSW	2.7	0.0	48	34	45	65	S	1.5	0.0	46	34	43	66	N	0.0	0.0
3:00	50	38	46	67	SSW	2.7	0.0	49	34	45	63	SSW	1.3	0.0	48	35	45	63	ENE	1.5	0.0
4:00	52	40	49	69	SSW	2.2	0.0	52	39	49	71	SSW	1.1	0.0	51	39	49	70	E	2.1	0.0
5:00	57	47	54	72	S	2.8	0.0	58	46	55	76	N	0.0	0.0	58	45	56	77	N	0.0	0.0
6:00	60	49	57	76	SSE	2.7	0.0	60	48	57	73	N	0.0	0.0	60	48	57	73	N	0.0	0.0
7:00	60	49	57	75	S	3.3	0.0	60	48	58	74	SW	1.8	0.0	60	49	57	74	E	0.8	0.0
8:00	59	49	56	75	S	3.0	0.0	60	48	57	82	SW	1.7	0.0	60	49	57	79	N	0.0	0.0
9:00	59	49	56	74	SSE	3.9	0.0	59	46	57	83	SW	1.8	0.0	61	50	58	76	ENE	1.8	0.0
10:00	59	48	56	72	S	3.8	0.0	59	45	56	75	W	1.4	0.0	62	50	59	81	ENE	2.2	0.0
11:00	59	47	56	75	SSE	3.9	0.0	58	44	55	76	SW	1.7	0.0					NNE	5.7	0.0
12:00	58	46	55	73	SE	3.3	0.0	59	44	56	84	ESE	1.9	0.0					NNE	5.7	0.0
13:00	59	48	57	83	SSW	3.9	0.0	58	45	55	76	SE	1.2	0.0					N	5.2	0.0
14:00	58	48	56	75	SSW	3.9	0.0	59	45	57	78	S	2.5	0.0	60	49	57	74	N	4.6	0.0
15:00	58	49	56	77	SSW	5.0	0.0	60	48	57	74	S	2.8	0.0	59	48	57	84	N	4.7	0.0
16:00					S	5.9	0.0	58	46	55	73	S	3.0	0.0	58	48	56	76	N	3.6	0.0
17:00					S	5.4	0.0	57	46	54	76	SW	3.0	0.0	60	48	57	78	N	3.3	0.0
18:00	59	51	56	70	S	4.9	0.0	57	45	54	73	SSW	2.7	0.0	59	47	56	79	NE	1.6	0.0
19:00	57	49	55	77	S	4.4	0.0	57	45	55	81	SSW	2.2	0.0	58	47	56	78	N	2.4	0.0
20:00	56	47	57	92	SE	4.1	0.0	56	47	54	77	S	1.0	0.0					N	1.7	0.0
21:00	55	46	52	72	SE	2.8	0.0	55	46	53	68	N	0.0	0.0	56	45	53	69	N	0.0	0.0
22:00	53	44	51	71	SE	2.5	0.0	54	44	52	70	N	0.0	0.0	54	43	51	67	ENE	1.0	0.0
23:00	51	40	48	68	ESE	2.0	0.0	53	43	50	70	E	1.7	0.0	52	41	49	70	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	58							58													
$L_{eq,15hr,\ 7\text{-}22h}$			56							56											
$L_{eq,9hr,\ 22\text{-}7h}$			51							51											
$L_{eq,16hr,\ 6\text{-}22h}$			56							56											
$L_{eq,8hr,\ 22\text{-}6h}$			49							49											
$L_{max,\ 24h}$				92							84										
Adverse Weather Count	2							0							4						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

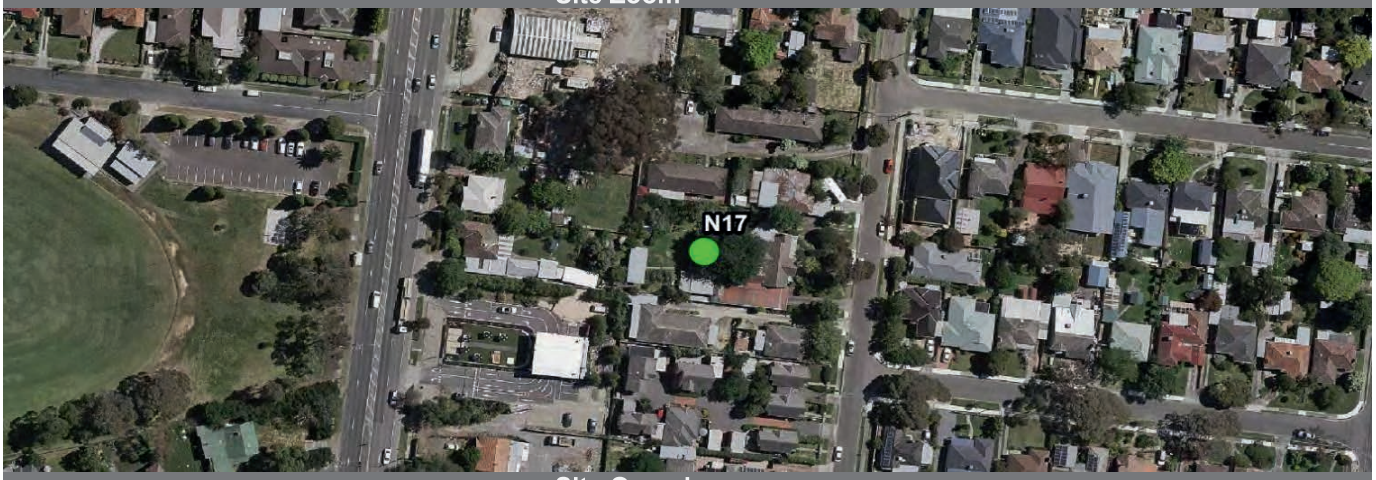
Noise Monitoring Data Sheet — 17 Watson St, Watsonia

SITE ID **17**

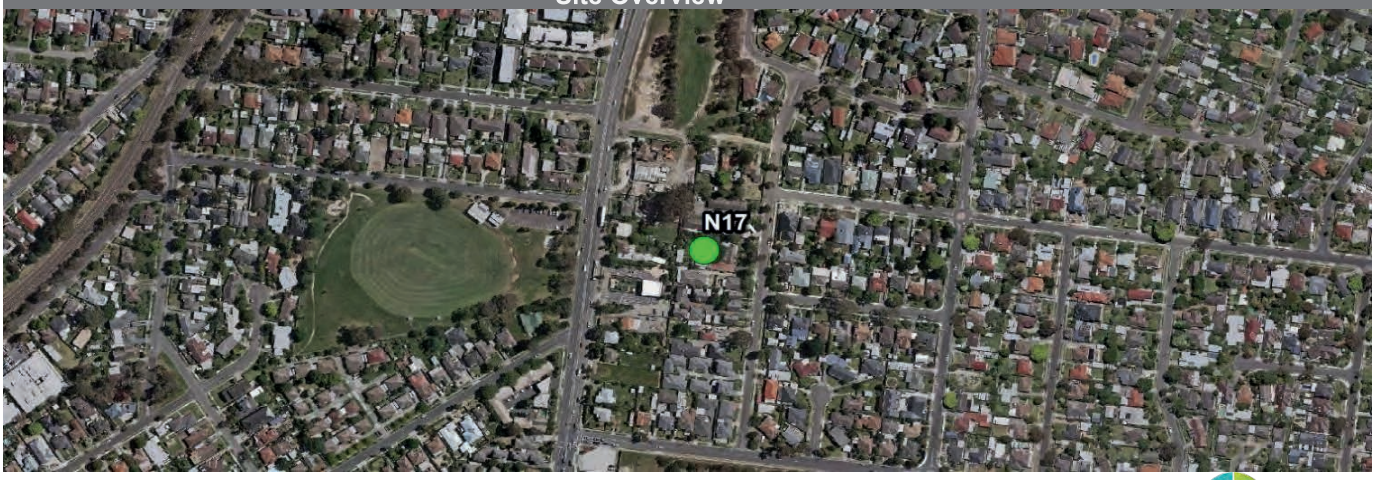
Dominant Road	Greensborough Highway	From	14/04/2018	Address	17 Watson St
18-hr Traffic Flow	-	To	25/04/2018	Suburb	Watsonia
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Free-Field	Longitude	145° 4'56.94"E
Distance to Road (m)	85	Inst. Serial #	175537	Latitude	37°43'5.00"S
% of H.V.	-	Operator	MV	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	17/04	18/04	19/04	20/04	21/04	22/04	23/04	24/04
$L_{10,18hr}$, Arith Av, 6-24h	**51**	52 dBA	51 dBA	52 dBA	51 dBA	49 dBA	49 dBA	51 dBA	52 dBA
$L_{eq,15hr}$, Log Av, 7-22h	**50**	52 dBA	50 dBA	51 dBA	49 dBA	50 dBA	49 dBA	50 dBA	51 dBA
$L_{eq,16hr}$, Log Av, 6-22h	**50**	52 dBA	50 dBA	51 dBA	49 dBA	49 dBA	49 dBA	50 dBA	51 dBA
$L_{eq,8hr}$, Log Av, 22-6h	**44**	45 dBA	44 dBA	44 dBA	44 dBA	43 dBA	43 dBA	41 dBA	46 dBA
$L_{eq,9hr}$, Log Av, 22-7h	**45**	46 dBA	46 dBA	46 dBA	46 dBA	43 dBA	43 dBA	43 dBA	47 dBA

Site Zoom

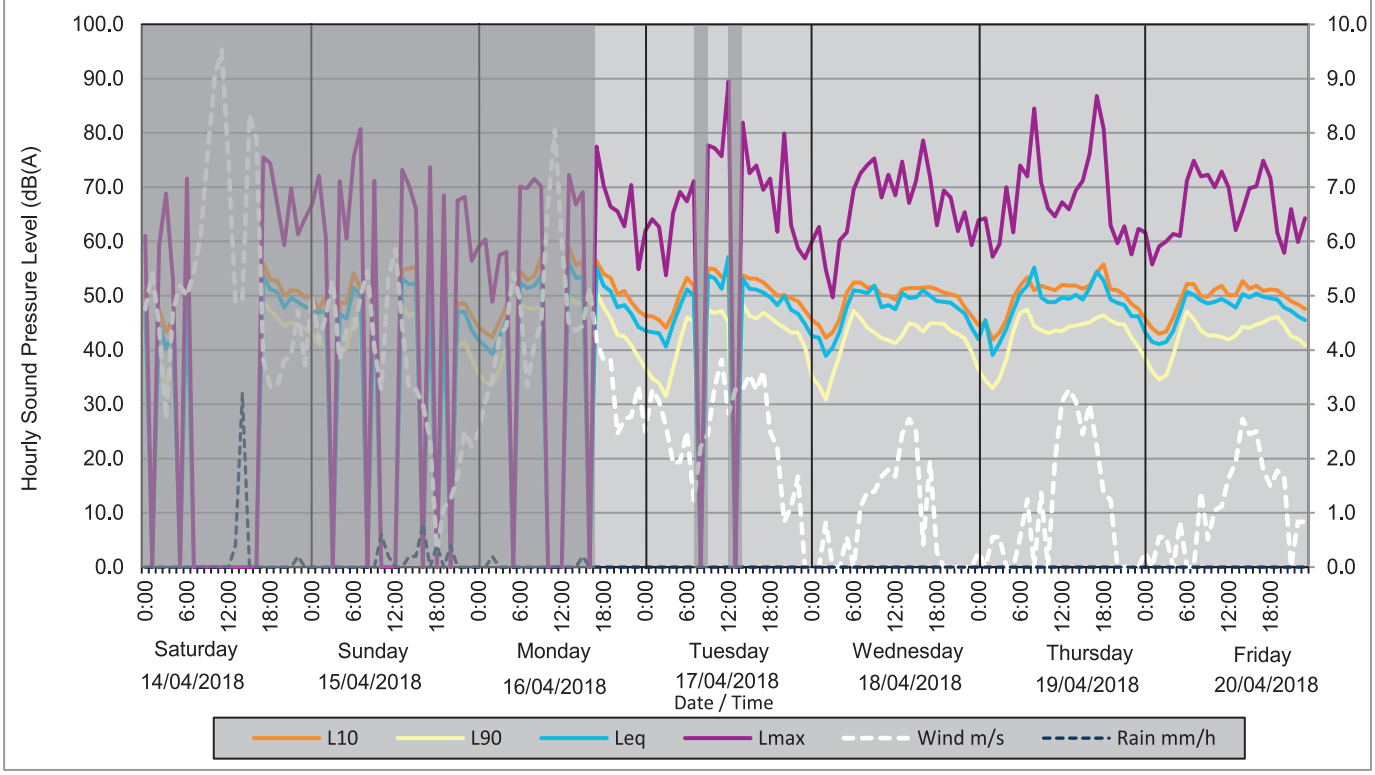


Site Overview



Project No. 60539390 Project:NEL noise monitoring - Residential

Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Saturday 14/04/2018							Sunday 15/04/2018							Monday 16/04/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	51	43	48	61	WNW	4.8	0.0	50	43	47	67	NNW	5.0	0.0	44	36	42	59	N	2.5	0.0
1:00					W	5.4	0.0	47	41	47	72	NNW	4.2	0.0	43	34	41	60	N	3.1	0.0
2:00	48	38	45	59	W	4.4	0.0	50	41	47	61	NW	4.6	0.0	42	34	39	49	N	3.5	0.2
3:00	43	33	40	69	NW	2.7	0.0					WNW	5.3	0.0	45	36	42	58	N	4.3	0.0
4:00	46	37	43	53	NNW	4.7	0.0	49	39	47	71	NW	3.8	0.0	48	41	46	58	NNW	4.4	0.0
5:00					N	5.2	0.0	49	40	46	61	NW	4.4	0.0					NNW	5.4	0.0
6:00	53	46	51	72	NNE	5.0	0.0	54	46	52	76	NW	4.4	0.0	55	49	53	70	NNW	4.9	0.0
7:00					ENE	5.4	0.0	51	44	50	81	NNW	5.0	0.0	53	48	51	70	N	3.3	0.0
8:00					ENE	6.1	0.0					N	5.5	0.0	54	48	52	72	NW	4.1	0.0
9:00					NE	7.6	0.0	53	48	52	71	N	4.0	0.0	57	48	54	70	W	4.5	0.0
10:00					NE	9.0	0.0					NW	3.3	0.6					W	6.7	0.0
11:00					NE	9.5	0.0					WNW	5.3	0.2					W	8.1	0.0
12:00					NNE	7.4	0.0					WNW	5.9	0.0					WSW	6.0	0.0
13:00					NW	4.9	0.4	55	48	53	73	WNW	4.4	0.0	59	50	56	72	WSW	4.4	0.0
14:00					NNW	4.9	3.2	55	46	52	70	W	3.3	0.2	56	49	53	67	SW	4.4	0.0
15:00					WNW	8.3	0.0	55	47	52	66	W	3.3	0.2	56	49	53	69	SSW	4.4	0.2
16:00					W	7.9	0.0					W	3.0	0.8					SW	5.1	0.0
17:00	56	49	54	76	W	3.8	0.0	55	46	52	74	W	2.4	0.0	56	51	55	78	SW	4.2	0.0
18:00	53	47	51	74	NW	3.3	0.0					W	0.3	0.4	54	48	52	70	SW	3.8	0.0
19:00	53	46	51	67	NW	3.3	0.0	49	43	48	69	W	1.1	0.0	53	46	51	66	SSW	3.8	0.0
20:00	50	44	48	59	NNW	3.8	0.0					W	1.3	0.4	50	43	48	66	SSW	2.5	0.0
21:00	51	45	50	70	NW	3.9	0.0	49	41	47	68	W	1.7	0.0	51	43	48	63	SW	2.7	0.0
22:00	51	45	49	61	NW	4.7	0.2	49	42	47	68	NW	2.5	0.0	49	41	47	70	WSW	2.8	0.0
23:00	50	44	48	64	N	3.7	0.0	46	38	44	56	NW	2.2	0.0	47	39	44	55	WSW	3.3	0.0
$L_{10,18hr,\ 6\text{-}24h}$																					
$L_{eq,15hr,\ 7\text{-}22h}$																					
$L_{eq,9hr,\ 22\text{-}7h}$																					
$L_{eq,16hr,\ 6\text{-}22h}$																					
$L_{eq,8hr,\ 22\text{-}6h}$																					
$L_{max,\ 24h}$																					
Adverse Weather Count	12							8							5						

Start Time	Tuesday 17/04/2018							Wednesday 18/04/2018							Thursday 19/04/2018							Friday 20/04/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	46	37	44	62	W	2.5	0.0	46	35	43	60	N	0.0	0.0	45	36	42	64	W	0.3	0.0	46	39	43	62	N	0.3	0.0
1:00	46	35	43	64	WSW	3.3	0.0	45	33	42	63	N	0.0	0.0	45	34	46	64	N	0.0	0.0	44	36	42	56	N	0.0	0.0
2:00	46	34	43	63	WSW	3.1	0.0	42	31	39	55	S	0.8	0.0	42	33	39	57	W	0.6	0.0	43	35	41	59	N	0.6	0.0
3:00	44	32	41	54	WSW	2.6	0.0	43	35	41	50	N	0.0	0.0	43	35	41	60	W	0.6	0.0	43	35	42	60	NNE	0.6	0.0
4:00	47	37	45	65	W	1.9	0.0	46	39	43	60	N	0.0	0.0	46	38	44	70	N	0.0	0.0	46	39	44	61	N	0.0	0.0
5:00	50	42	48	69	W	1.9	0.0	51	44	48	62	S	0.5	0.0	50	43	47	62	N	0.0	0.0	49	43	47	61	N	0.8	0.0
6:00	53	46	51	67	WSW	2.5	0.0	52	47	51	70	N	0.0	0.0	52	47	50	74	W	0.6	0.0	52	47	51	71	N	0.0	0.0
7:00	52	45	50	71	WSW	1.2	0.0	52	46	51	73	SSE	1.1	0.0	53	47	52	72	W	1.3	0.0	52	46	50	75	N	0.0	0.0
8:00					S	2.2	0.0	52	44	51	74	SSE	1.4	0.0	51	44	55	85	N	0.0	0.0	50	44	49	72	NE	1.4	0.0
9:00	55	47	54	78	S	2.4	0.0	52	43	52	75	SE	1.4	0.0	52	44	50	71	SSW	1.4	0.0	50	43	49	72	NE	0.5	0.0
10:00	55	47	53	77	SSW	3.3	0.0	50	42	48	68	SE	1.7	0.0	51	43	49	66	N	0.0	0.0	51	43	49	70	NW	1.0	0.0
11:00	53	47	51	76	SW	3.8	0.0	50	42	48	72	ESE	1.8	0.0	51	44	49	65	SW	1.9	0.0	52	42	49	73	S	1.1	0.0
12:00	54	45	57	90	SSW	2.8	0.0	49	41	48	69	E	1.7	0.0	52	44	50	67	SSW	3.1	0.0	50	42	49	70	SW	1.6	0.0
13:00					S	3.3	0.0	51	43	51	75	NNE	2.4	0.0	52	44	49	66	SSW	3.3	0.0	50	43	48	62	SSW	1.9	0.0
14:00	54	49	53	82	S	3.3	0.0	51	45	50	67	N	2.7	0.0	52	45	50	69	SW	3.1	0.0	53	44	50	66	SSW	2.7	0.0
15:00	53	46	51	73	SSW	3.5	0.0	51	45	50	71	N	2.5	0.0	51	45	49	71	SW	2.5	0.0	51	44	50	70	S	2.4	0.0
16:00	53	46	51	74	SSW	3.3	0.0	52	43	51	79	SSW	0.4	0.0	52	45	52	76	SW	3.0	0.0	52	45	50	70	S	2.5	0.0
17:00	53	47	51	70	SSW	3.6	0.0	52	45	50	72	WSW	1.9	0.0	54	46	54	87	SSW	2.2	0.0	51	45	50	75	S	1.8	0.0
18:00	51	46	50	72	S	2.5	0.0	51	45	49	63	W	0.3	0.0	56	46	53	81	SSW	1.4	0.0	51	46	50	72	SSW	1.5	0.0
19:00	50	45	48	62	S	2.2	0.0	51	45	49	69	N	0.0	0.0	51	45	49	63	SW	1.2	0.0	51	46	49	62	SW	1.8	0.0
20:00	50	44	50	80	SSW	0.8	0.0	50	44	49	68	N	0.0	0.0	51	45	49	60	N	0.0	0.0	50	45	48	58	SW	1.7	0.0
21:00	50	43	47	63	SW	1.1	0.0	50	43	48	62	N	0.0	0.0	50	45	48	63	N	0.0	0.0	49	43	47	66	N	0.0	0.0
22:00	49	43	47	59	SW	1.7	0.0	48	42	47	65	N	0.0	0.0	49	42	46	58	N	0.0	0.0	48	42	46	60	SW	0.8	0.0
23:00	47	41	45	57	N	0.0	0.0	46	40	44	59	N	0.0	0.0	48	41	46	62	N	0.0	0.0	48	41	46	64	WSW	0.8	0.0
$L_{10,18hr,\ 6\text{-}24h}$	52							51							52							51						
$L_{eq,15hr,\ 7\text{-}22h}$			52							50							51							49				
$L_{eq,9hr,\ 22\text{-}7h}$			46							46							46							46				
$L_{eq,16hr,\ 6\text{-}22h}$			52							50							51							49				
$L_{eq,8hr,\ 22\text{-}6h}$			45							44							44							44				
$L_{max,\ 24h}$				90							79							87							75			
Adverse Weather Count	2							0							0							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet

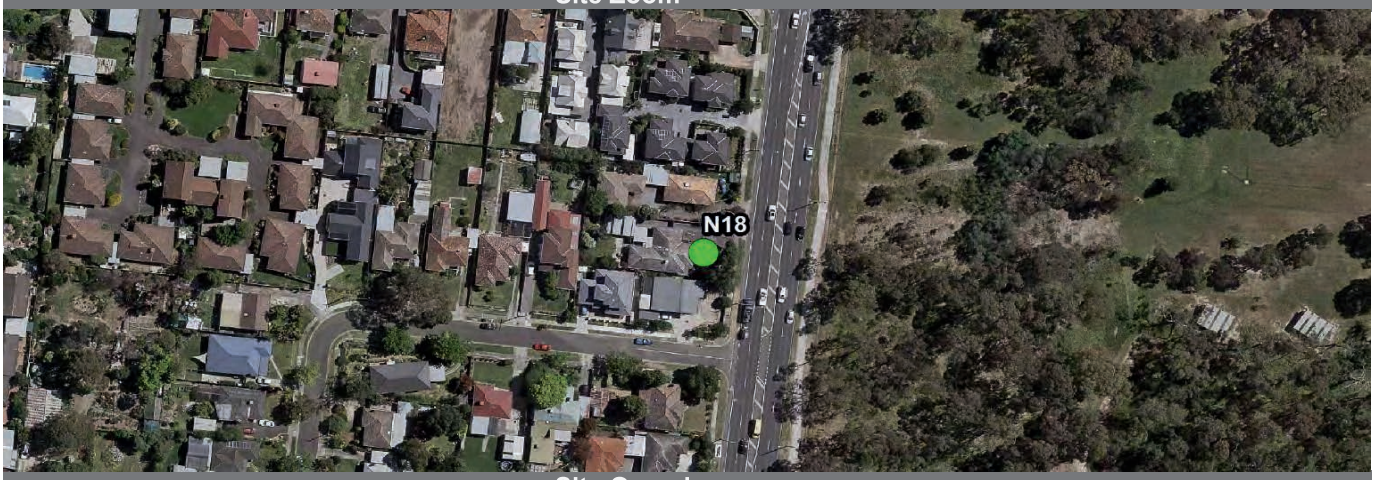
179 Greensborough Road, Macleod

SITE ID
18

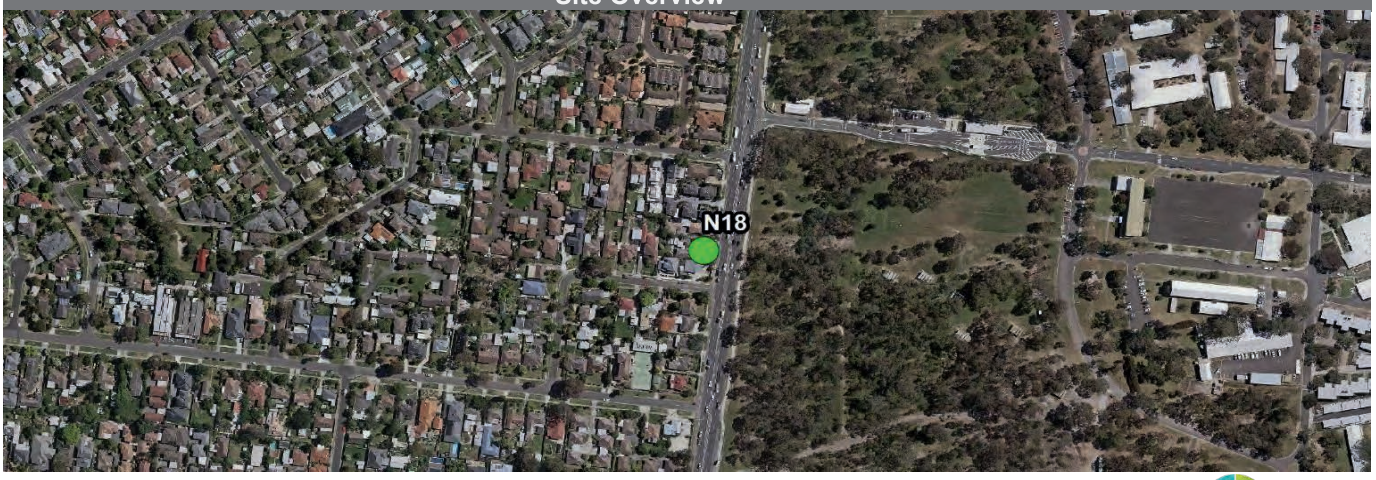
Dominant Road	Greensborough Road	From	15/02/2018	Address	179 Greensborough Road
18-hr Traffic Flow	-	To	22/02/2018	Suburb	Macleod
Road Surface	Stone Seal	Mic. Height (m)	2.2	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Façade	Longitude	145° 4'49.26"E
Distance to Road (m)	17	Inst. Serial #	164394	Latitude	37°43'23.66"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	15/02	16/02	17/02	18/02	19/02	20/02	21/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**71**	71 dBA	72 dBA	71 dBA	70 dBA	72 dBA	71 dBA	71 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**69**	69 dBA	69 dBA	68 dBA	68 dBA	70 dBA	70 dBA	70 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**69**	69 dBA	69 dBA	68 dBA	68 dBA	70 dBA	70 dBA	70 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**63**	63 dBA	63 dBA	63 dBA	63 dBA	63 dBA	63 dBA	63 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**64**	65 dBA	65 dBA	64 dBA	63 dBA	65 dBA	65 dBA	65 dBA

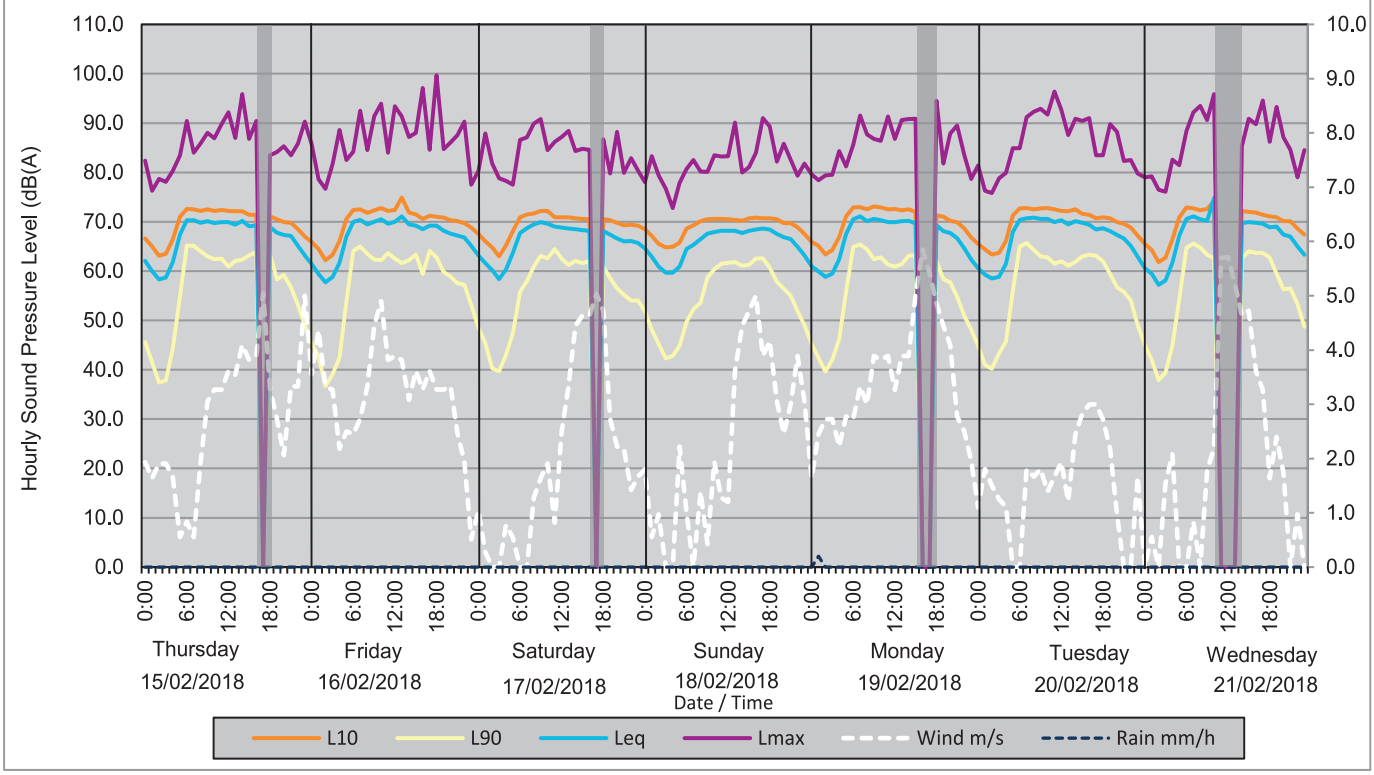
Site Zoom



Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Project No. 60539390 Project:NEL noise monitoring - Residential

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Thursday 15/02/2018							Friday 16/02/2018							Saturday 17/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	67	46	62	82	WNW	1.9	0.0	66	45	61	86	W	3.5	0.0	68	49	63	80	SSW	1.0	0.0
1:00	65	42	60	76	NW	1.6	0.0	65	43	59	79	WSW	4.4	0.0	66	45	62	88	SSW	0.3	0.0
2:00	63	37	58	79	NW	1.9	0.0	62	37	58	77	W	3.3	0.0	65	40	60	82	N	0.0	0.0
3:00	64	38	59	78	N	1.9	0.0	63	39	59	82	W	3.3	0.0	63	40	58	79	N	0.0	0.0
4:00	66	44	62	80	NNE	1.7	0.0	66	43	62	89	WNW	2.2	0.0	65	43	60	78	SSE	0.8	0.0
5:00	71	55	67	83	E	0.6	0.0	71	54	67	83	W	2.5	0.0	68	47	64	78	SSE	0.5	0.0
6:00	73	65	70	90	ENE	0.8	0.0	72	64	70	84	W	2.4	0.0	71	56	68	87	N	0.0	0.0
7:00	73	65	70	84	E	0.6	0.0	73	65	70	93	WSW	2.7	0.0	72	58	69	87	N	0.0	0.0
8:00	72	64	70	86	N	1.9	0.0	72	64	70	85	WSW	3.3	0.0	72	61	70	90	ESE	1.3	0.0
9:00	73	63	70	88	WNW	3.1	0.0	72	62	70	91	WSW	4.4	0.0	72	63	70	91	NE	1.6	0.0
10:00	72	62	70	87	NW	3.3	0.0	73	62	71	94	SW	4.9	0.0	72	63	70	85	SE	1.9	0.0
11:00	72	63	70	90	WNW	3.3	0.0	72	64	70	84	SW	3.8	0.0	71	65	69	86	NE	0.8	0.0
12:00	72	61	70	92	WNW	3.6	0.0	72	63	70	93	SW	3.9	0.0	71	63	69	87	SSW	2.5	0.0
13:00	72	62	69	87	NW	3.5	0.0	75	62	71	91	SW	3.8	0.0	71	61	69	88	SW	3.3	0.0
14:00	72	62	70	96	SW	4.1	0.0	72	62	70	87	SSW	3.1	0.0	71	62	69	84	SW	4.4	0.0
15:00	71	63	69	87	SW	3.8	0.0	72	63	69	88	SSW	3.6	0.0	71	62	68	85	SW	4.6	0.0
16:00	71	64	69	90	SW	3.9	0.0	71	59	69	97	SW	3.3	0.0	71	62	68	85	SSW	4.6	0.0
17:00					SW	5.0	0.0	71	64	69	85	SW	3.6	0.0					SSW	5.0	0.0
18:00	71	63	69	84	SW	3.3	0.0	71	63	69	##	SW	3.3	0.0	71	61	68	87	SSW	4.7	0.0
19:00	71	58	68	84	SSW	2.7	0.0	71	60	68	85	SSW	3.3	0.0	70	59	67	80	S	2.7	0.0
20:00	70	59	67	85	SW	2.1	0.0	70	59	68	86	SSW	3.3	0.0	70	57	67	88	S	2.2	0.0
21:00	70	57	67	84	SW	3.3	0.0	70	58	67	88	S	2.5	0.0	69	55	66	80	S	2.2	0.0
22:00	69	53	65	86	WSW	3.3	0.0	70	57	67	90	S	1.9	0.0	69	54	66	83	S	1.4	0.0
23:00	67	49	63	90	WSW	5.0	0.0	69	53	65	78	S	0.5	0.0	69	54	66	80	SSW	1.7	0.0
$L_{10,18hr,\ 6\text{-}24h}$	71							72							71						
$L_{eq,15hr,\ 7\text{-}22h}$			69							69							68				
$L_{eq,9hr,\ 22\text{-}7h}$			65							65							64				
$L_{eq,16hr,\ 6\text{-}22h}$			69							69							68				
$L_{eq,8hr,\ 22\text{-}6h}$			63							63							63				
$L_{max,\ 24h}$				96							##							91			
Adverse Weather Count	1							0							1						

Start Time	Sunday 18/02/2018							Monday 19/02/2018							Tuesday 20/02/2018							Wednesday 21/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	69	52	65	78	SSW	1.8	0.0	66	45	61	80	S	1.6	0.0	66	45	61	81	SE	1.1	0.0	66	45	61	79	N	0.0	0.0
1:00	67	48	63	83	SSW	0.6	0.0	65	42	60	78	SSW	2.5	0.2	64	41	59	76	S	1.8	0.0	64	42	60	79	NE	0.6	0.0
2:00	66	45	61	79	SW	1.0	0.0	63	40	59	79	SSW	2.7	0.0	63	40	59	76	S	1.5	0.0	62	38	57	77	N	0.0	0.0
3:00	65	42	60	77	N	0.0	0.0	64	42	60	80	SSW	2.7	0.0	64	43	59	79	SSW	1.3	0.0	63	39	58	76	ENE	1.5	0.0
4:00	65	43	60	73	N	0.0	0.0	67	46	62	84	SSW	2.2	0.0	66	46	62	80	SSW	1.1	0.0	66	45	62	83	E	2.1	0.0
5:00	66	45	61	78	SSW	2.2	0.0	71	56	68	81	S	2.8	0.0	71	56	68	85	N	0.0	0.0	71	54	67	82	N	0.0	0.0
6:00	69	50	65	81	SE	1.0	0.0	73	65	71	86	SSE	2.7	0.0	73	65	70	85	N	0.0	0.0	73	65	71	88	N	0.0	0.0
7:00	69	52	65	83	N	0.0	0.0	73	65	71	92	S	3.3	0.0	73	66	71	91	SW	1.8	0.0	73	66	71	92	E	0.8	0.0
8:00	70	54	67	80	ESE	1.4	0.0	73	64	70	88	S	3.0	0.0	73	64	71	92	SW	1.7	0.0	72	65	71	94	N	0.0	0.0
9:00	71	59	68	80	S	0.4	0.0	73	62	71	87	SSE	3.9	0.0	73	63	71	93	SW	1.8	0.0	73	63	70	91	ENE	1.8	0.0
10:00	71	60	68	84	SSW	1.9	0.0	73	63	70	86	S	3.8	0.0	73	63	71	92	W	1.4	0.0	74	63	75	96	ENE	2.2	0.0
11:00	71	62	68	83	S	1.3	0.0	73	61	70	91	SSE	3.9	0.0	73	62	70	96	SW	1.7	0.0					NNE	5.7	0.0
12:00	71	62	68	83	SSW	1.2	0.0	73	61	70	87	SE	3.3	0.0	72	62	70	93	ESE	1.9	0.0					NNE	5.7	0.0
13:00	70	62	68	90	SW	3.6	0.0	72	61	70	91	SSW	3.9	0.0	72	61	70	88	SE	1.2	0.0					N	5.2	0.0
14:00	70	61	68	80	SW	4.4	0.0	73	63	70	91	SSW	3.9	0.0	73	62	70	91	S	2.5	0.0	72	63	70	85	N	4.6	0.0
15:00	71	61	68	81	SW	4.7	0.0	72	63	70	91	SSW	5.0	0.0	72	63	70	90	S	2.8	0.0	72	64	70	91	N	4.7	0.0
16:00	71	63	68	84	SSW	5.0	0.0					S	5.9	0.0	71	63	69	91	S	3.0	0.0	72	64	70	90	N	3.6	0.0
17:00	71	63	69	91	S	3.9	0.0					S	5.4	0.0	71	63	68	84	SW	3.0	0.0	71	64	70	95	N	3.3	0.0
18:00	71	61	68	89	S	4.2	0.0	71	62	69	95	S	4.9	0.0	71	62	69	84	SSW	2.7	0.0	71	63	69	86	NE	1.6	0.0
19:00	71	58	68	82	S	3.1	0.0	71	58	68	82	S	4.4	0.0	71	59	68	90	SSW	2.2	0.0	71	60	69	93	N	2.4	0.0
20:00	70	56	67	86	S	2.4	0.0	70	58	68	88	SE	4.1	0.0	70	57	67	88	S	1.0	0.0	70	56	67	87	N	1.7	0.0
21:00	70	55	67	83	SSW	3.0	0.0	70	55	67	90	SE	2.8	0.0	70	56	67	82	N	0.0	0.0	70	57	67	85	N	0.0	0.0
22:00	69	52	65	79	SSW	3.9	0.0	69	51	65	84	SE	2.5	0.0	69	54	65	83	N	0.0	0.0	69	53	65	79	ENE	1.0	0.0
23:00	68	49	63	82	SSW	3.1	0.0	67	48	62	79	ESE	2.0	0.0	67	49	63	80	E	1.7	0.0	67	49	63	85	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	70							72							71							71						
$L_{eq,15hr,\ 7\text{-}22h}$			68							70							70							70				
$L_{eq,9hr,\ 22\text{-}7h}$			63							65							65							65				
$L_{eq,16hr,\ 6\text{-}22h}$			68							70							70							70				
$L_{eq,8hr,\ 22\text{-}6h}$			63							63							63							63				
$L_{max,\ 24h}$				91							95							96							96			
Adverse Weather Count	0							2							0							3						

Project No. 60539390 Project:NEL noise monitoring - Residential

Noise Monitoring Data Sheet

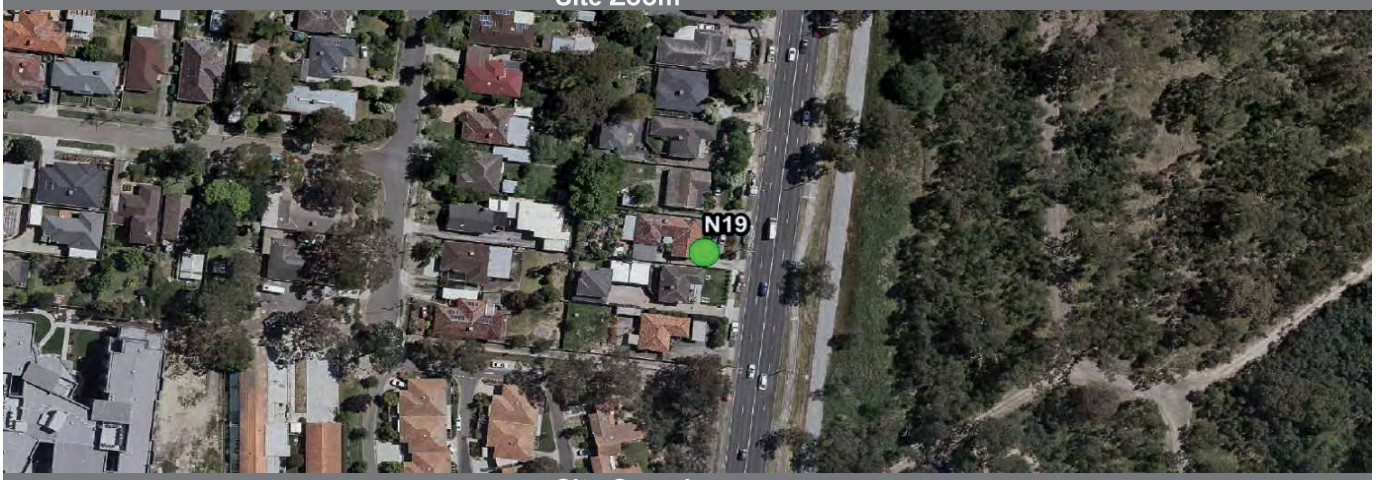
115 Greensborough Road, Macleod

SITE ID
19

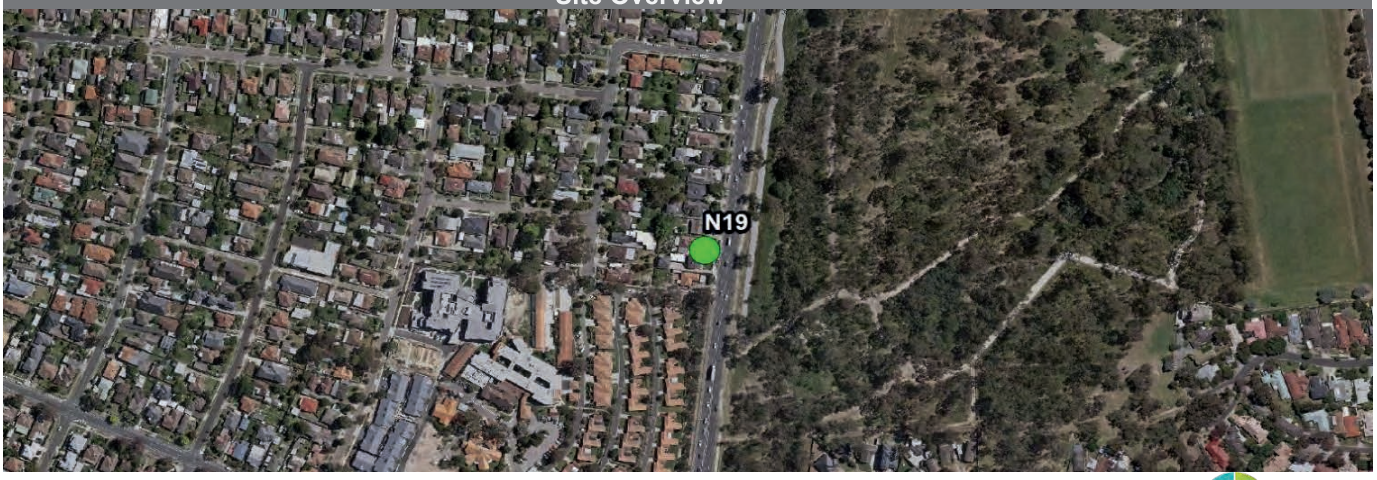
Dominant Road	Greensborough Road	From	15/02/2018	Address	115 Greensborough Road
18-hr Traffic Flow	-	To	22/02/2018	Suburb	Macleod
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Façade	Longitude	145° 4'46.53"E
Distance to Road (m)	17	Inst. Serial #	164393	Latitude	37°43'39.66"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	15/02	16/02	17/02	18/02	19/02	20/02	21/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**72**	72 dBA	72 dBA	71 dBA	71 dBA	73 dBA	72 dBA	72 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**70**	70 dBA	70 dBA	69 dBA	68 dBA	70 dBA	70 dBA	70 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**70**	70 dBA	70 dBA	69 dBA	68 dBA	70 dBA	70 dBA	70 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**64**	64 dBA	63 dBA	64 dBA	64 dBA	64 dBA	64 dBA	64 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**65**	66 dBA	65 dBA	64 dBA	64 dBA	66 dBA	65 dBA	65 dBA

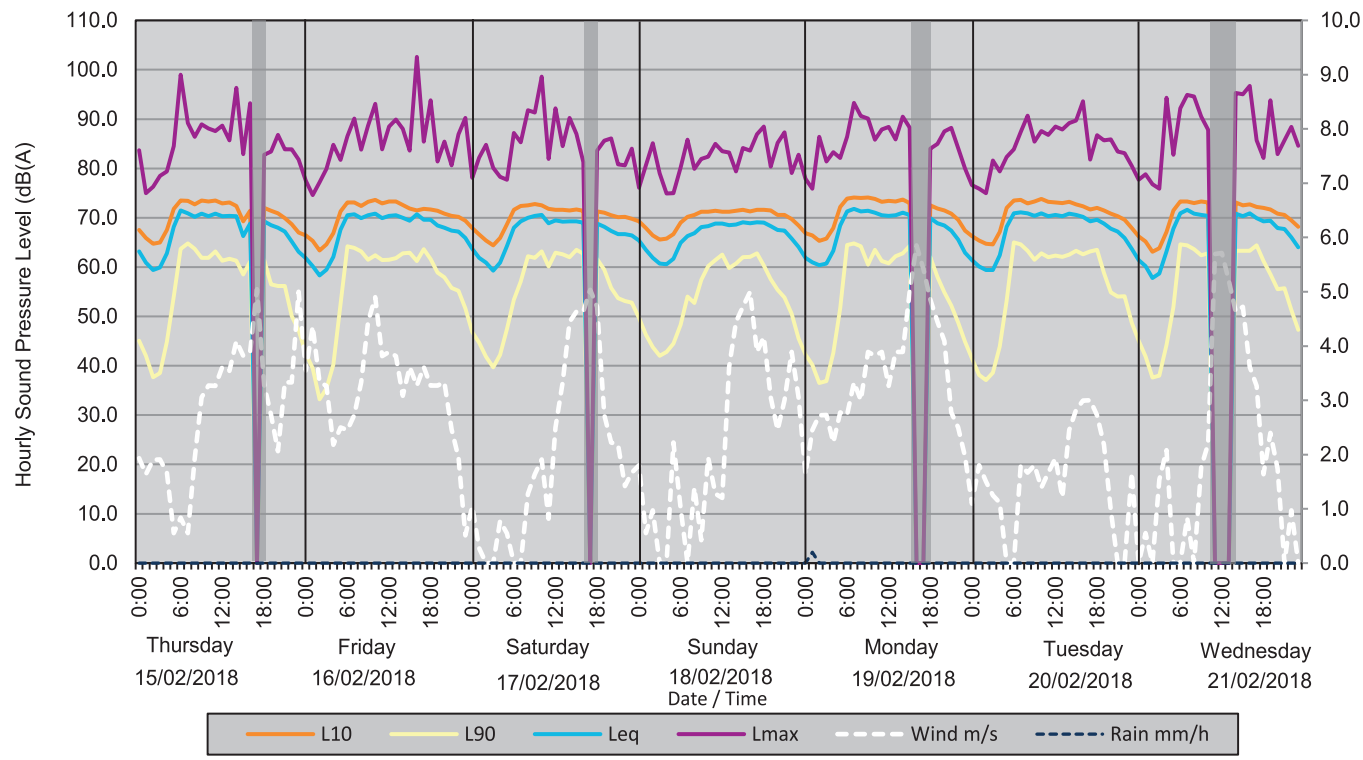
Site Zoom



Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Thursday 15/02/2018							Friday 16/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	68	45	63	84	WNW	1.9	0.0	66	43	62	78	W	3.5	0.0
1:00	66	42	61	75	NW	1.6	0.0	65	40	60	75	WSW	4.4	0.0
2:00	65	38	59	76	NW	1.9	0.0	63	33	58	77	W	3.3	0.0
3:00	65	39	60	79	N	1.9	0.0	65	35	60	80	W	3.3	0.0
4:00	68	45	63	79	NNE	1.7	0.0	67	40	62	85	WNW	2.2	0.0
5:00	72	54	68	85	E	0.6	0.0	71	53	68	82	W	2.5	0.0
6:00	74	64	72	99	ENE	0.8	0.0	73	64	71	87	W	2.4	0.0
7:00	73	65	71	89	E	0.6	0.0	73	64	71	90	WSW	2.7	0.0
8:00	73	64	70	86	N	1.9	0.0	72	63	70	84	WSW	3.3	0.0
9:00	74	62	71	89	WNW	3.1	0.0	73	62	71	89	WSW	4.4	0.0
10:00	73	62	70	88	NW	3.3	0.0	74	62	71	93	SW	4.9	0.0
11:00	74	63	71	88	WNW	3.3	0.0	73	61	70	84	SW	3.8	0.0
12:00	73	61	70	89	WNW	3.6	0.0	73	62	70	89	SW	3.9	0.0
13:00	73	62	70	86	NW	3.5	0.0	73	62	71	90	SW	3.8	0.0
14:00	72	61	70	96	SW	4.1	0.0	73	63	70	88	SSW	3.1	0.0
15:00	69	59	66	83	SW	3.8	0.0	72	63	69	84	SSW	3.6	0.0
16:00	71	61	69	93	SW	3.9	0.0	72	61	71	##	SW	3.3	0.0
17:00					SW	5.0	0.0	72	64	70	85	SW	3.6	0.0
18:00	72	61	69	83	SW	3.3	0.0	72	62	70	94	SW	3.3	0.0
19:00	71	57	69	83	SSW	2.7	0.0	71	59	68	81	SSW	3.3	0.0
20:00	71	56	68	87	SW	2.1	0.0	71	58	68	85	SSW	3.3	0.0
21:00	70	56	67	84	SW	3.3	0.0	70	56	67	81	S	2.5	0.0
22:00	69	50	65	84	WSW	3.3	0.0	70	55	67	87	S	1.9	0.0
23:00	67	47	63	82	WSW	5.0	0.0	69	52	66	90	S	0.5	0.0
$L_{10,18hr,\ 6\text{-}24h}$	72							72						
$L_{eq,15hr,\ 7\text{-}22h}$			70							70				
$L_{eq,9hr,\ 22\text{-}7h}$			66							65				
$L_{eq,16hr,\ 6\text{-}22h}$			70							70				
$L_{eq,8hr,\ 22\text{-}6h}$			64							63				
$L_{max,\ 24h}$				99							##			
Adverse Weather Count	1							0						

Start Time	Saturday 17/02/2018							Sunday 18/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	68	47	64	78	SSW	1.0	0.0	69	50	65	76	SSW	1.8	0.0
1:00	67	45	62	82	SSW	0.3	0.0	68	46	64	81	SSW	0.6	0.0
2:00	65	42	61	85	N	0.0	0.0	66	44	62	85	SW	1.0	0.0
3:00	64	40	59	80	N	0.0	0.0	66	42	61	79	N	0.0	0.0
4:00	66	42	61	78	SSE	0.8	0.0	66	43	61	75	N	0.0	0.0
5:00	69	48	64	78	SSE	0.5	0.0	67	45	62	75	SSW	2.2	0.0
6:00	72	53	68	87	N	0.0	0.0	69	48	65	80	SE	1.0	0.0
7:00	72	57	69	85	N	0.0	0.0	70	54	66	86	N	0.0	0.0
8:00	73	62	70	92	ESE	1.3	0.0	71	53	67	80	ESE	1.4	0.0
9:00	73	62	70	91	NE	1.6	0.0	71	57	68	82	S	0.4	0.0
10:00	73	63	71	99	SE	1.9	0.0	71	60	68	82	SSW	1.9	0.0
11:00	72	60	69	82	NE	0.8	0.0	71	61	69	85	S	1.3	0.0
12:00	72	63	70	92	SSW	2.5	0.0	71	63	69	84	SSW	1.2	0.0
13:00	72	63	69	85	SW	3.3	0.0	71	60	69	83	SW	3.6	0.0
14:00	72	62	69	90	SW	4.4	0.0	71	61	69	79	SW	4.4	0.0
15:00	72	64	69	87	SW	4.6	0.0	72	62	69	84	SW	4.7	0.0
16:00	71	63	69	81	SSW	4.6	0.0	71	62	69	84	SSW	5.0	0.0
17:00					SSW	5.0	0.0	72	63	69	87	S	3.9	0.0
18:00	71	62	69	84	SSW	4.7	0.0	72	60	69	89	S	4.2	0.0
19:00	71	60	68	86	S	2.7	0.0	72	58	68	80	S	3.1	0.0
20:00	71	56	67	86	S	2.2	0.0	71	55	68	85	S	2.4	0.0
21:00	70	54	67	81	S	2.2	0.0	71	54	67	87	SSW	3.0	0.0
22:00	70	53	67	81	S	1.4	0.0	70	51	66	79	SSW	3.9	0.0
23:00	70	53	66	84	SSW	1.7	0.0	68	46	64	83	SSW	3.1	0.0
$L_{10,18hr,\ 6\text{-}24h}$	71							71						
$L_{eq,15hr,\ 7\text{-}22h}$			69							68				
$L_{eq,9hr,\ 22\text{-}7h}$			64							64				
$L_{eq,16hr,\ 6\text{-}22h}$			69							68				
$L_{eq,8hr,\ 22\text{-}6h}$			64							64				
$L_{max,\ 24h}$				99							89			
Adverse Weather Count	1							0						

Start Time	Monday 19/02/2018							Tuesday 20/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	67	42	62	78	S	1.6	0.0	66	42	61	77	SE	1.1	0.0
1:00	66	40	61	76	SSW	2.5	0.2	65	38	60	76	S	1.8	0.0
2:00	65	37	60	86	SSW	2.7	0.0	65	37	59	75	S	1.5	0.0
3:00	66	37	61	81	SSW	2.7	0.0	65	39	59	82	SSW	1.3	0.0
4:00	68	43	63	83	SSW	2.2	0.0	67	44	62	79	SSW	1.1	0.0
5:00	72	52	68	82	S	2.8	0.0	72	53	68	82	N	0.0	0.0
6:00	74	65	71	86	SSE	2.7	0.0	74	65	71	84	N	0.0	0.0
7:00	74	65	72	93	S	3.3	0.0	74	65	71	87	SW	1.8	0.0
8:00	74	64	71	91	S	3.0	0.0	73	63	71	91	SW	1.7	0.0
9:00	74	61	71	90	SSE	3.9	0.0	73	62	70	85	SW	1.8	0.0
10:00	74	64	71	86	S	3.8	0.0	74	63	71	88	W	1.4	0.0
11:00	73	61	71	88	SSE	3.9	0.0	73	62	70	87	SW	1.7	0.0
12:00	73	61	70	88	SE	3.3	0.0	73	62	71	89	ESE	1.9	0.0
13:00	73	62	71	86	SSW	3.9	0.0	73	62	70	88	SE	1.2	0.0
14:00	74	63	71	91	SSW	3.9	0.0	73	63	71	89	S	2.5	0.0
15:00	73	64	71	88	SSW	5.0	0.0	73	63	71	90	S	2.8	0.0
16:00					S	5.9	0.0	72	63	70	94	S	3.0	0.0
17:00					S	5.4	0.0	72	63	69	82	SW	3.0	0.0
18:00	73	62	70	84	S	4.9	0.0	72	64	70	87	SSW	2.7	0.0
19:00	72	58	69	85	S	4.4	0.0	72	59	69	86	SSW	2.2	0.0
20:00	72	55	68	88	SE	4.1	0.0	71	55	68	86	S	1.0	0.0
21:00	71	52	67	88	SE	2.8	0.0	70	54	67	83	N	0.0	0.0
22:00	70	49	66	84	SE	2.5	0.0	70	54	66	83	N	0.0	0.0
23:00	67	45	63	80	ESE	2.0	0.0	68	49	64	81	E	1.7	0.0
$L_{10,18hr,\ 6\text{-}24h}$	73							72						
$L_{eq,15hr,\ 7\text{-}22h}$			70							70				
$L_{eq,9hr,\ 22\text{-}7h}$			66							65				
$L_{eq,16hr,\ 6\text{-}22h}$			70							70				
$L_{eq,8hr,\ 22\text{-}6h}$			64							64				
$L_{max,\ 24h}$				93							94			
Adverse Weather Count	2							0						

Start Time	Wednesday 21/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	66	45	61	78	N	0.0	0.0
1:00	65	42	60	79	NE	0.6	0.0
2:00	63	38	58	77	N	0.0	0.0
3:00	64	38	59	76	ENE	1.5	0.0
4:00	67	44	63	94	E	2.1	0.0
5:00	72	52	68	83	N	0.0	0.0
6:00	73	65	71	92	N	0.0	0.0
7:00	73	64	72	95	E	0.8	0.0
8:00	73	64	71	95	N	0.0	0.0
9:00	73	62	71	91	ENE	1.8	0.0
10:00	73	63	70	88	ENE	2.2	0.0
11:00					NNE	5.7	0.0
12:00					NNE	5.7	0.0
13:00					N	5.2	0.0
14:00	73	63	71	95	N	4.6	0.0
15:00	73	63	70	95	N	4.7	0.0
16:00	73	63	71	97	N	3.6	0.0
17:00	72	64	70	86	N	3.3	0.0
18:00	72	61	69	82	NE	1.6	0.0
19:00	72	59	69	94	N	2.4	0.0
20:00	71	56	68	83	N	1.7	0.0
21:00	71	56	68	86	N	0.0	0.0
22:00	70	51	66	88	ENE	1.0	0.0
23:00	68	47	64	85	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	72						
$L_{eq,15hr,\ 7\text{-}22h}$			70				
$L_{eq,9hr,\ 22\text{-}7h}$			65				
$L_{eq,16hr,\ 6\text{-}22h}$			70				
$L_{eq,8hr,\ 22\text{-}6h}$			64				
$L_{max,\ 24h}$				97			
Adverse Weather Count	3						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EAST LINK PROJECT

Noise Monitoring Data Sheet

10 Borlase St, Yallambie

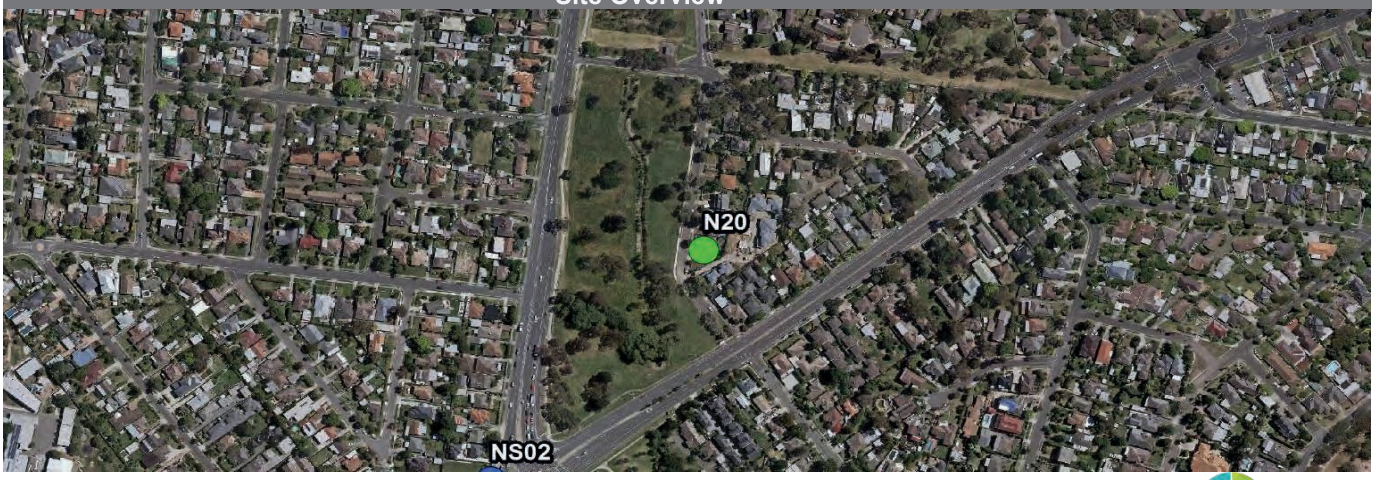
SITE ID
20

Dominant Road	Greensborough Rd/Lower Plenty Rd	From	15/02/2018	Address	10 Borlase St
18-hr Traffic Flow	-	To	22/02/2018	Suburb	Yallambie
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Façade	Longitude	145° 4'49.30"E
Distance to Road (m)	100	Inst. Serial #	856769	Latitude	37°43'59.21"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

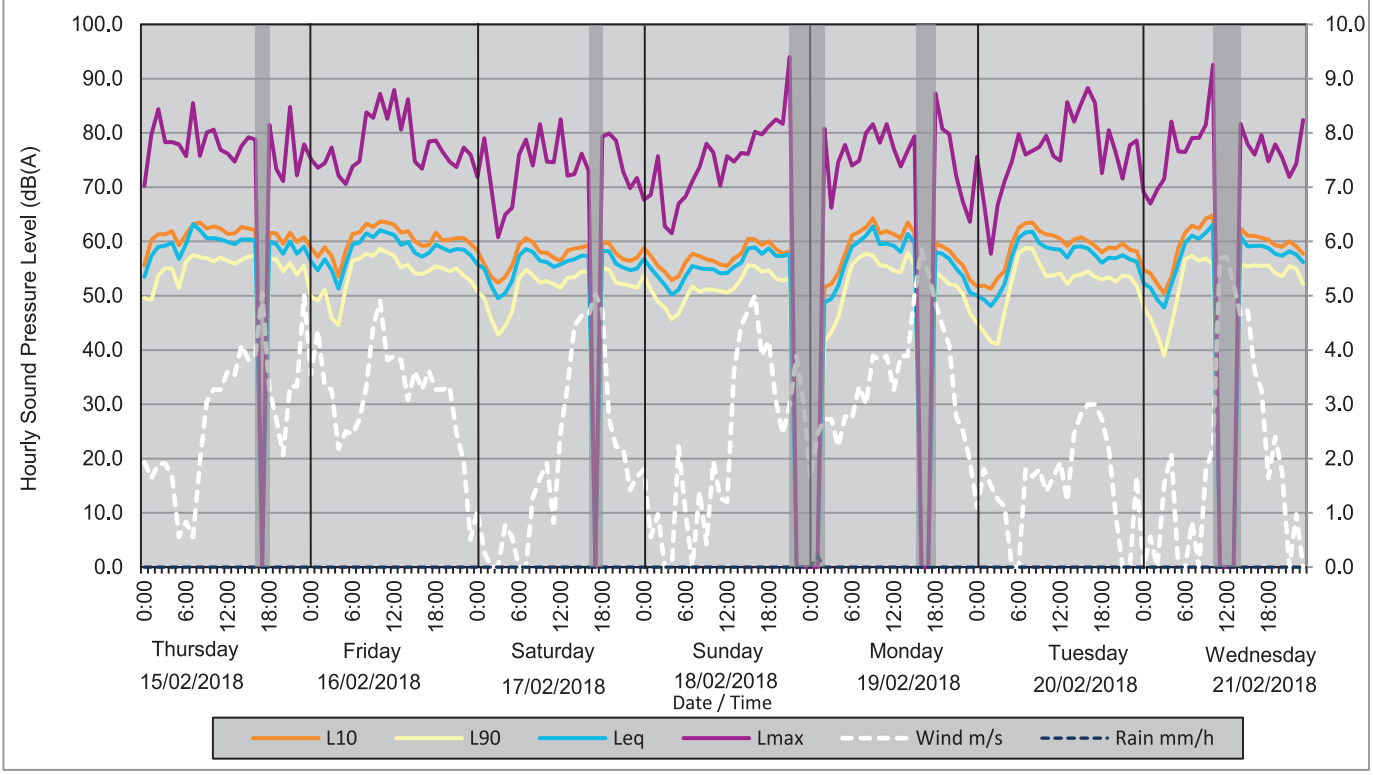
Date	Avg	15/02	16/02	17/02	18/02	20/02	21/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**60**	62 dBA	61 dBA	58 dBA	58 dBA	60 dBA	61 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**59**	60 dBA	60 dBA	57 dBA	57 dBA	59 dBA	60 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**59**	60 dBA	60 dBA	57 dBA	57 dBA	59 dBA	60 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**55**	59 dBA	56 dBA	55 dBA	54 dBA	52 dBA	54 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**56**	59 dBA	57 dBA	55 dBA	54 dBA	55 dBA	55 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Thursday 15/02/2018							Friday 16/02/2018							Saturday 17/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	56	50	54	70	WNW	1.9	0.0	59	50	56	75	W	3.5	0.0	58	51	56	72	SSW	1.0	0.0
1:00	60	49	57	80	NW	1.6	0.0	57	49	55	74	WSW	4.4	0.0	56	50	55	79	SSW	0.3	0.0
2:00	61	54	59	84	NW	1.9	0.0	59	51	57	74	W	3.3	0.0	54	46	52	70	N	0.0	0.0
3:00	61	55	59	78	N	1.9	0.0	57	46	55	77	W	3.3	0.0	52	43	50	61	N	0.0	0.0
4:00	62	55	60	78	NNE	1.7	0.0	54	45	51	72	WNW	2.2	0.0	54	44	51	65	SSE	0.8	0.0
5:00	59	52	57	78	E	0.6	0.0	58	51	56	71	W	2.5	0.0	56	47	53	66	SSE	0.5	0.0
6:00	61	56	60	76	ENE	0.8	0.0	61	56	60	74	W	2.4	0.0	59	53	57	76	N	0.0	0.0
7:00	63	58	63	86	E	0.6	0.0	62	57	60	75	WSW	2.7	0.0	61	55	59	79	N	0.0	0.0
8:00	64	57	62	76	N	1.9	0.0	63	58	62	84	WSW	3.3	0.0	60	54	58	74	ESE	1.3	0.0
9:00	62	57	61	80	WNW	3.1	0.0	63	57	61	83	WSW	4.4	0.0	58	52	56	82	NE	1.6	0.0
10:00	63	56	61	81	NW	3.3	0.0	64	59	62	87	SW	4.9	0.0	58	53	56	75	SE	1.9	0.0
11:00	62	57	60	77	WNW	3.3	0.0	64	58	62	83	SW	3.8	0.0	57	52	55	75	NE	0.8	0.0
12:00	61	56	60	76	WNW	3.6	0.0	63	57	61	88	SW	3.9	0.0	56	52	56	83	SSW	2.5	0.0
13:00	62	56	60	75	NW	3.5	0.0	62	55	59	81	SW	3.8	0.0	58	53	56	72	SW	3.3	0.0
14:00	63	57	60	78	SW	4.1	0.0	62	56	60	86	SSW	3.1	0.0	59	53	57	72	SW	4.4	0.0
15:00	62	57	60	79	SW	3.8	0.0	60	54	58	75	SSW	3.6	0.0	59	55	57	76	SW	4.6	0.0
16:00	62	57	60	79	SW	3.9	0.0	59	54	57	73	SW	3.3	0.0	59	54	57	73	SSW	4.6	0.0
17:00					SW	5.0	0.0	59	55	58	78	SW	3.6	0.0					SSW	5.0	0.0
18:00	62	57	60	82	SW	3.3	0.0	62	55	59	79	SW	3.3	0.0	60	55	58	79	SSW	4.7	0.0
19:00	62	57	60	73	SSW	2.7	0.0	60	55	59	77	SSW	3.3	0.0	60	55	58	80	S	2.7	0.0
20:00	60	55	58	71	SW	2.1	0.0	60	55	58	75	SSW	3.3	0.0	58	52	56	79	S	2.2	0.0
21:00	62	56	60	85	SW	3.3	0.0	61	55	59	74	S	2.5	0.0	57	52	55	73	S	2.2	0.0
22:00	60	54	58	72	WSW	3.3	0.0	61	54	59	77	S	1.9	0.0	56	52	55	70	S	1.4	0.0
23:00	61	56	59	78	WSW	5.0	0.0	60	53	58	76	S	0.5	0.0	57	51	55	72	SSW	1.7	0.0
$L_{10,18hr,\ 6\text{-}24h}$	62							61							58						
$L_{eq,15hr,\ 7\text{-}22h}$			60							60							57				
$L_{eq,9hr,\ 22\text{-}7h}$			59							57							55				
$L_{eq,16hr,\ 6\text{-}22h}$			60							60							57				
$L_{eq,8hr,\ 22\text{-}6h}$			59							56							55				
$L_{max,\ 24h}$				86							88							83			
Adverse Weather Count	1							0							1						

Start Time	Sunday 18/02/2018							Monday 19/02/2018							Tuesday 20/02/2018							Wednesday 21/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	59	54	57	68	SSW	1.8	0.0					S	1.6	0.0	52	45	50	76	SE	1.1	0.0	55	48	52	69	N	0.0	0.0
1:00	57	51	55	69	SSW	0.6	0.0					SSW	2.5	0.2	52	43	49	67	S	1.8	0.0	54	46	52	67	NE	0.6	0.0
2:00	56	49	54	76	SW	1.0	0.0	52	42	49	81	SSW	2.7	0.0	51	42	48	58	S	1.5	0.0	52	43	49	70	N	0.0	0.0
3:00	54	48	52	63	N	0.0	0.0	52	43	49	66	SSW	2.7	0.0	53	41	50	67	SSW	1.3	0.0	51	39	48	72	ENE	1.5	0.0
4:00	53	46	50	62	N	0.0	0.0	54	46	52	75	SSW	2.2	0.0	55	47	52	71	SSW	1.1	0.0	54	45	52	82	E	2.1	0.0
5:00	54	47	51	67	SSW	2.2	0.0	58	51	56	78	S	2.8	0.0	60	53	57	75	N	0.0	0.0	59	50	56	77	N	0.0	0.0
6:00	56	49	54	68	SE	1.0	0.0	61	56	59	74	SSE	2.7	0.0	63	58	61	80	N	0.0	0.0	62	57	60	77	N	0.0	0.0
7:00	58	52	56	71	N	0.0	0.0	62	57	60	75	S	3.3	0.0	63	59	62	76	SW	1.8	0.0	63	57	61	79	E	0.8	0.0
8:00	57	51	55	74	ESE	1.4	0.0	63	58	61	80	S	3.0	0.0	64	59	62	77	SW	1.7	0.0	62	56	61	79	N	0.0	0.0
9:00	57	51	55	78	S	0.4	0.0	64	57	63	82	SSE	3.9	0.0	62	56	60	77	SW	1.8	0.0	64	57	62	82	ENE	1.8	0.0
10:00	56	51	55	76	SSW	1.9	0.0	62	56	60	78	S	3.8	0.0	61	54	59	80	W	1.4	0.0	65	56	63	93	ENE	2.2	0.0
11:00	56	51	54	70	S	1.3	0.0	62	56	60	82	SSE	3.9	0.0	61	54	59	76	SW	1.7	0.0					NNE	5.7	0.0
12:00	56	51	54	76	SSW	1.2	0.0	61	55	59	77	SE	3.3	0.0	61	54	59	75	ESE	1.9	0.0					NNE	5.7	0.0
13:00	57	51	55	75	SW	3.6	0.0	61	54	58	74	SSW	3.9	0.0	59	52	57	86	SE	1.2	0.0					N	5.2	0.0
14:00	58	53	56	76	SW	4.4	0.0	64	58	61	77	SSW	3.9	0.0	60	54	59	82	S	2.5	0.0	62	56	61	82	N	4.6	0.0
15:00	61	56	59	76	SW	4.7	0.0	62	56	60	79	SSW	5.0	0.0	61	54	59	85	S	2.8	0.0	61	55	59	78	N	4.7	0.0
16:00	60	56	59	80	SSW	5.0	0.0					S	5.9	0.0	60	55	59	88	S	3.0	0.0	61	56	59	76	N	3.6	0.0
17:00	59	54	58	80	S	3.9	0.0					S	5.4	0.0	59	54	58	86	SW	3.0	0.0	61	56	59	80	N	3.3	0.0
18:00	60	55	59	81	S	4.2	0.0	60	54	58	87	S	4.9	0.0	58	53	56	73	SSW	2.7	0.0	60	56	59	75	NE	1.6	0.0
19:00	59	53	57	83	S	3.1	0.0	59	53	58	81	S	4.4	0.0	59	53	57	81	SSW	2.2	0.0	59	54	58	78	N	2.4	0.0
20:00	58	53	57	82	S	2.4	0.0	58	52	57	80	SE	4.1	0.0	59	53	57	76	S	1.0	0.0	59	54	57	76	N	1.7	0.0
21:00	58	53	58	94	SSW	3.0	0.0	57	52	55	72	SE	2.8	0.0	60	54	58	72	N	0.0	0.0	60	55	58	72	N	0.0	0.0
22:00					SSW	3.9	0.0	56	50	54	67	SE	2.5	0.0	59	54	57	78	N	0.0	0.0	59	55	58	74	ENE	1.0	0.0
23:00					SSW	3.1	0.0	53	47	51	64	ESE	2.0	0.0	58	52	56	79	E	1.7	0.0	58	52	56	82	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	58														60							61						
$L_{eq,15hr,\ 7\text{-}22h}$			57														59							60				
$L_{eq,9hr,\ 22\text{-}7h}$			54														55							55				
$L_{eq,16hr,\ 6\text{-}22h}$			57														59							60				
$L_{eq,8hr,\ 22\text{-}6h}$			54														52							54				
$L_{max,\ 24h}$				94														88							93			
Adverse Weather Count	2							4							0							3						

Project No. 60539390 Project:NEL noise monitoring - Residential

NORTH EASTLINK PROJECT

Noise Monitoring Data Sheet

3 Kay Court, Yallambie

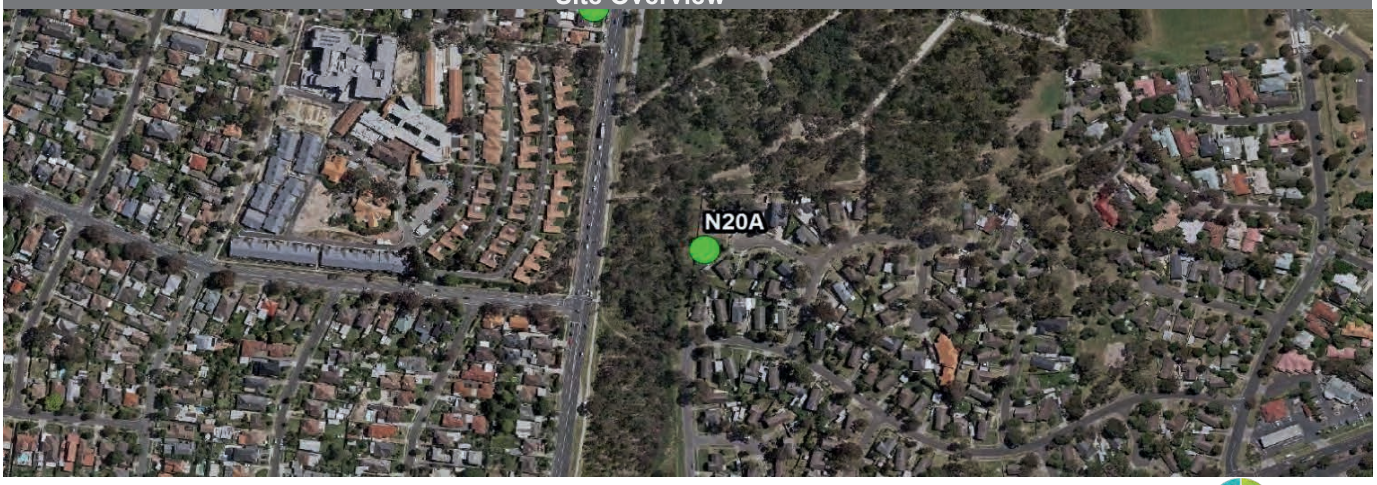
SITE ID
20A

Dominant Road	Greensborough Road	From	22/03/2018	Address	3 Kay Court
18-hr Traffic Flow	-	To	3/04/2018	Suburb	Yallambie
Road Surface	Stone Seal	Mic. Height (m)	1.7	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Façade	Longitude	145° 4'49.99"E
Distance to Road (m)	85	Inst. Serial #	164394	Latitude	37°43'46.52"S
% of H.V.	-	Operator	MV	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

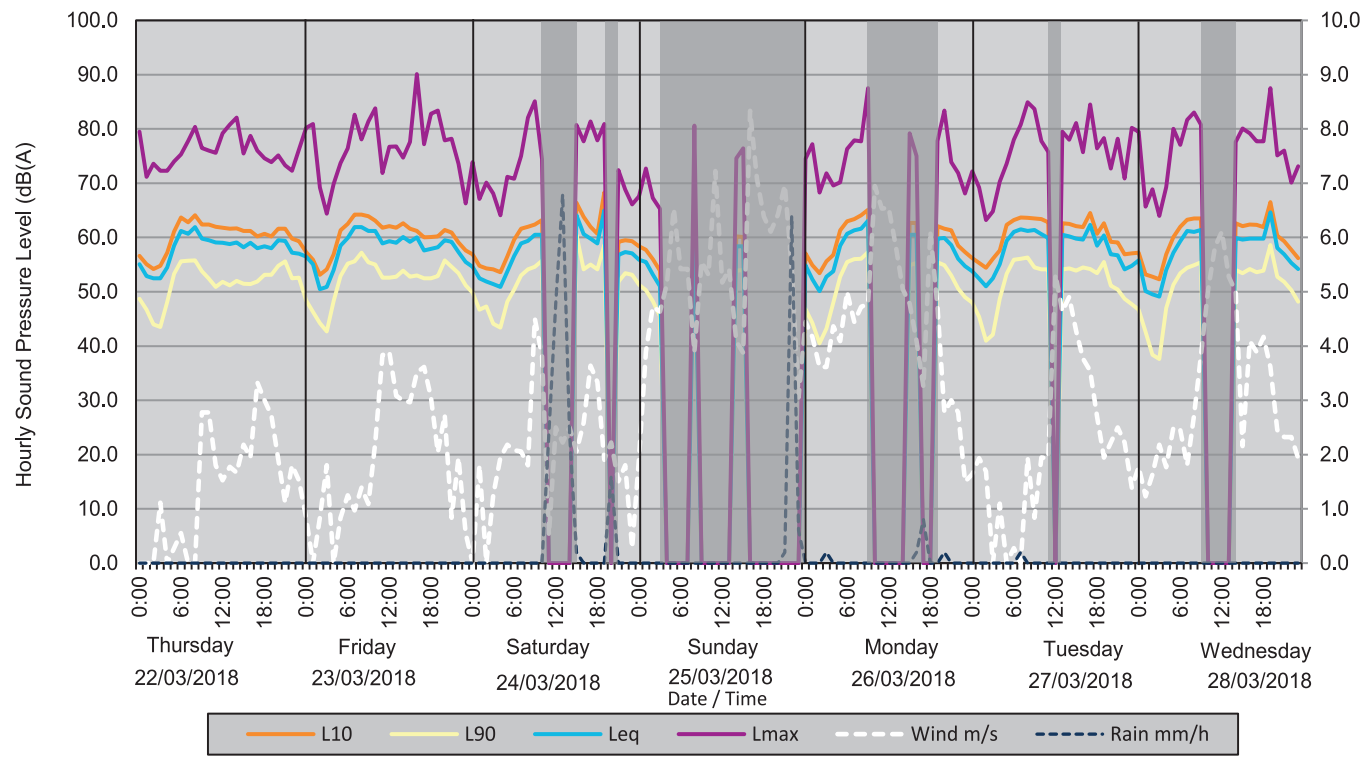
Date	Avg	22/03	23/03	27/03	29/03	30/03	31/03	1/04	2/04
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**61**	62 dBA	62 dBA	62 dBA	62 dBA	60 dBA	59 dBA	59 dBA	59 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**59**	59 dBA	60 dBA	60 dBA	60 dBA	59 dBA	58 dBA	58 dBA	58 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**59**	59 dBA	60 dBA	60 dBA	60 dBA	59 dBA	57 dBA	58 dBA	58 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**54**	55 dBA	56 dBA	55 dBA	54 dBA	54 dBA	52 dBA	52 dBA	53 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**55**	56 dBA	56 dBA	56 dBA	55 dBA	54 dBA	52 dBA	52 dBA	53 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Thursday 22/03/2018							Friday 23/03/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	57	49	55	80	N	0.0	0.0	57	48	57	80	ENE	0.8	0.0
1:00	55	47	53	71	N	0.0	0.0	56	46	55	81	N	0.0	0.0
2:00	54	44	53	74	N	0.0	0.0	53	44	51	69	NE	0.8	0.0
3:00	55	44	53	72	E	1.1	0.0	54	43	51	64	NE	1.8	0.0
4:00	57	48	55	72	N	0.0	0.0	57	48	54	70	N	0.0	0.0
5:00	61	53	59	74	E	0.3	0.0	61	53	59	74	NE	0.8	0.0
6:00	64	56	61	75	E	0.6	0.0	63	55	60	76	NE	1.3	0.0
7:00	63	56	61	78	N	0.0	0.0	64	56	62	83	NE	1.0	0.0
8:00	64	56	62	80	N	0.0	0.0	64	57	62	78	NE	1.4	0.0
9:00	62	54	60	77	E	2.8	0.0	64	55	61	81	ENE	1.1	0.0
10:00	62	52	60	76	E	2.8	0.0	63	55	61	84	NE	2.2	0.0
11:00	62	51	59	76	SE	1.8	0.0	62	53	59	72	N	3.8	0.0
12:00	62	52	59	79	E	1.5	0.0	62	53	59	77	NNE	3.9	0.0
13:00	62	51	59	81	ESE	1.8	0.0	62	53	59	77	NE	3.1	0.0
14:00	62	52	59	82	SSE	1.7	0.0	63	54	60	75	ENE	3.0	0.0
15:00	61	52	58	76	S	2.2	0.0	62	53	59	78	N	3.0	0.0
16:00	61	51	59	79	SSE	1.9	0.0	61	53	60	90	N	3.5	0.0
17:00	60	52	58	76	SSE	3.3	0.0	60	53	58	77	N	3.6	0.0
18:00	61	53	58	75	SE	3.0	0.0	60	53	58	83	N	3.1	0.0
19:00	60	53	58	74	ESE	2.7	0.0	60	53	58	83	N	2.0	0.0
20:00	62	55	60	75	E	1.9	0.0	61	56	60	78	NNW	2.7	0.0
21:00	62	56	59	73	E	1.1	0.0	61	55	59	78	N	0.8	0.0
22:00	60	53	57	72	E	1.8	0.0	59	53	57	74	NNE	1.9	0.0
23:00	59	53	57	76	E	1.5	0.0	58	51	56	66	NE	0.5	0.0
$L_{10,18hr,\ 6\text{-}24h}$	62							62						
$L_{eq,15hr,\ 7\text{-}22h}$			59							60				
$L_{eq,9hr,\ 22\text{-}7h}$			56							56				
$L_{eq,16hr,\ 6\text{-}22h}$			59							60				
$L_{eq,8hr,\ 22\text{-}6h}$			55							56				
$L_{max,\ 24h}$				82							90			
Adverse Weather Count	0							0						

Start Time	Saturday 24/03/2018							Sunday 25/03/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	57	50	55	74	N	0.0	0.0	58	51	56	68	ENE	1.9	0.0
1:00	55	47	53	67	E	1.8	0.0	58	50	56	73	NNE	3.9	0.0
2:00	54	47	52	70	N	0.0	0.0	56	48	53	67	NNE	4.7	0.0
3:00	54	44	51	68	ENE	1.3	0.0	54	46	51	65	NNE	4.6	0.0
4:00	54	43	51	64	ENE	1.9	0.0					NNE	5.1	0.0
5:00	57	48	54	71	E	2.2	0.0					NNE	6.5	0.0
6:00	60	50	57	71	E	2.1	0.0					NNW	5.4	0.0
7:00	62	53	59	75	E	2.1	0.0					NNW	5.4	0.0
8:00	62	54	59	82	NE	1.8	0.0	62	55	60	81	NNW	3.9	0.0
9:00	62	55	61	85	WNW	4.5	0.0					NNW	5.6	0.0
10:00	63	56	61	74	SW	3.8	0.0					NW	5.3	0.0
11:00					ESE	0.5	2.4					WNW	7.2	0.0
12:00					E	2.5	4.8					W	5.2	0.0
13:00					E	2.2	6.8					WSW	5.4	0.0
14:00					E	2.5	2.4	60	54	58	75	W	4.1	0.0
15:00	66	61	64	81	ENE	2.1	0.2	60	54	58	76	NW	3.9	0.0
16:00	64	54	61	78	NE	2.6	0.0					NNW	8.3	0.0
17:00	62	55	60	81	N	3.6	0.0					NW	7.1	0.0
18:00	61	54	59	78	ENE	3.3	0.0					NW	6.4	0.0
19:00	68	59	65	81	ESE	1.9	0.0					NNW	6.1	0.0
20:00					E	2.2	1.6					W	6.4	0.0
21:00	59	52	57	72	E	1.5	0.0					WSW	7.0	0.2
22:00	60	53	57	69	E	1.8	0.0					W	5.4	6.4
23:00	59	53	57	66	E	0.3	0.0					WNW	3.1	0.6
$L_{10,18hr,\ 6\text{-}24h}$														
$L_{eq,15hr,\ 7\text{-}22h}$														
$L_{eq,9hr,\ 22\text{-}7h}$														
$L_{eq,16hr,\ 6\text{-}22h}$														
$L_{eq,8hr,\ 22\text{-}6h}$														
$L_{max,\ 24h}$														
Adverse Weather Count	5							17						

Start Time	Monday 26/03/2018							Tuesday 27/03/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	57	47	55	75	W	4.4	0.0	56	48	54	72	NW	1.6	0.0
1:00	55	44	52	77	WNW	4.2	0.0	55	45	52	69	N	1.9	0.0
2:00	53	41	50	68	WNW	3.6	0.0	54	41	51	63	NNE	1.7	0.0
3:00	56	43	53	72	WNW	3.6	0.2	56	42	53	65	N	0.0	0.0
4:00	57	48	54	70	WNW	4.4	0.0	58	49	55	70	NNE	1.1	0.0
5:00	61	53	59	70	NW	4.1	0.0	62	53	59	74	N	0.0	0.0
6:00	63	56	61	76	NW	5.0	0.0	63	56	61	78	ENE	0.3	0.0
7:00	63	56	61	78	NW	4.4	0.0	64	56	62	81	N	0.0	0.2
8:00	64	56	62	78	NW	4.7	0.0	64	56	61	85	ENE	1.9	0.0
9:00	65	57	63	88	WNW	4.8	0.0	64	55	61	84	ENE	0.8	0.0
10:00					W	6.9	0.0	63	54	61	78	E	1.9	0.0
11:00					W	6.5	0.0	63	54	60	76	N	1.9	0.0
12:00					W	6.5	0.0					N	5.3	0.0
13:00					W	5.8	0.0	63	54	61	80	NNW	4.6	0.0
14:00					W	5.0	0.0	63	54	60	78	N	4.9	0.0
15:00	63	55	61	79	SW	4.8	0.0	62	54	60	81	N	4.3	0.0
16:00	63	55	61	75	WSW	4.1	0.2	62	55	60	76	N	3.8	0.0
17:00					WSW	3.2	0.8	65	54	62	85	N	3.5	0.0
18:00					W	6.1	0.0	61	53	59	76	N	2.7	0.0
19:00	62	55	60	78	W	4.7	0.0	63	56	60	78	NE	1.9	0.0
20:00	62	55	60	83	WSW	2.8	0.2	59	51	57	73	NE	2.2	0.0
21:00	61	53	59	74	WSW	3.0	0.0	59	50	57	78	NE	2.5	0.0
22:00	59	51	56	72	W	2.8	0.0	57	49	54	71	NE	2.2	0.0
23:00	57	49	55	68	NW	1.5	0.0	57	48	55	80	NE	1.4	0.0
$L_{10,18hr,\ 6\text{-}24h}$								62						
$L_{eq,15hr,\ 7\text{-}22h}$										60				
$L_{eq,9hr,\ 22\text{-}7h}$										56				
$L_{eq,16hr,\ 6\text{-}22h}$										60				
$L_{eq,8hr,\ 22\text{-}6h}$										55				
$L_{max,\ 24h}$											85			
Adverse Weather Count	7							1						

Start Time	Wednesday 28/03/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	57	47	56	80	NE	1.8	0.0
1:00	53	43	50	66	ENE	1.2	0.0
2:00	53	38	50	69	ENE	1.6	0.0
3:00	52	38	49	64	NE	2.2	0.0
4:00	57	47	54	69	ENE	1.8	0.0
5:00	60	51	57	80	NE	2.5	0.0
6:00	62	53	59	77	NE	2.5	0.0
7:00	63	54	61	82	NE	1.8	0.0
8:00	64	55	61	83	NE	2.7	0.0
9:00	64	55	61	81	NNE	3.8	0.0
10:00					N	5.0	0.0
11:00					N	5.8	0.0
12:00					N	6.1	0.0
13:00					N	5.3	0.0
14:00	63	54	60	78	NNW	5.0	0.0
15:00	62	53	60	80	W	2.2	0.0
16:00	62	54	60	79	SW	4.1	0.0
17:00	62	54	60	78	SSW	3.9	0.0
18:00	62	54	60	78	SSW	4.2	0.0
19:00	67	59	65	88	SW	3.6	0.0
20:00	60	53	58	75	S	2.5	0.0
21:00	59	52	57	76	SSW	2.3	0.0
22:00	58	50	55	70	SW	2.3	0.0
23:00	56	48	54	73	SSW	1.9	0.0
$L_{10,18hr,\ 6\text{-}24h}$							
$L_{eq,15hr,\ 7\text{-}22h}$							
$L_{eq,9hr,\ 22\text{-}7h}$							
$L_{eq,16hr,\ 6\text{-}22h}$							
$L_{eq,8hr,\ 22\text{-}6h}$							
$L_{max,\ 24h}$							
Adverse Weather Count	4						

Project No. 60539390 Project:NEL noise monitoring - Residential

Noise Monitoring Data Sheet

218 Bulleen Rd, Bulleen

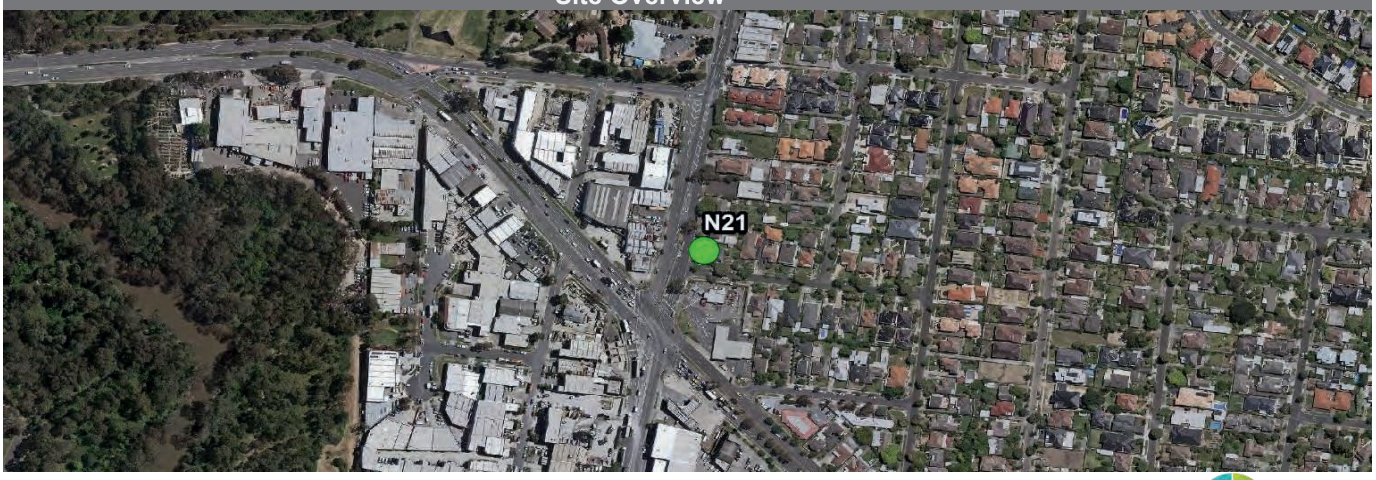
SITE ID
21

Dominant Road	Bulleen Rd/ Manningham Rd	From	17/02/2018	Address	218 Bulleen Rd
18-hr Traffic Flow	-	To	22/02/2018	Suburb	Bulleen
Road Surface	Stone Seal	Mic. Height (m)	1.8	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Façade	Longitude	145° 5'1.50"E
Distance to Road (m)	12	Inst. Serial #	354110	Latitude	37°45'41.94"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

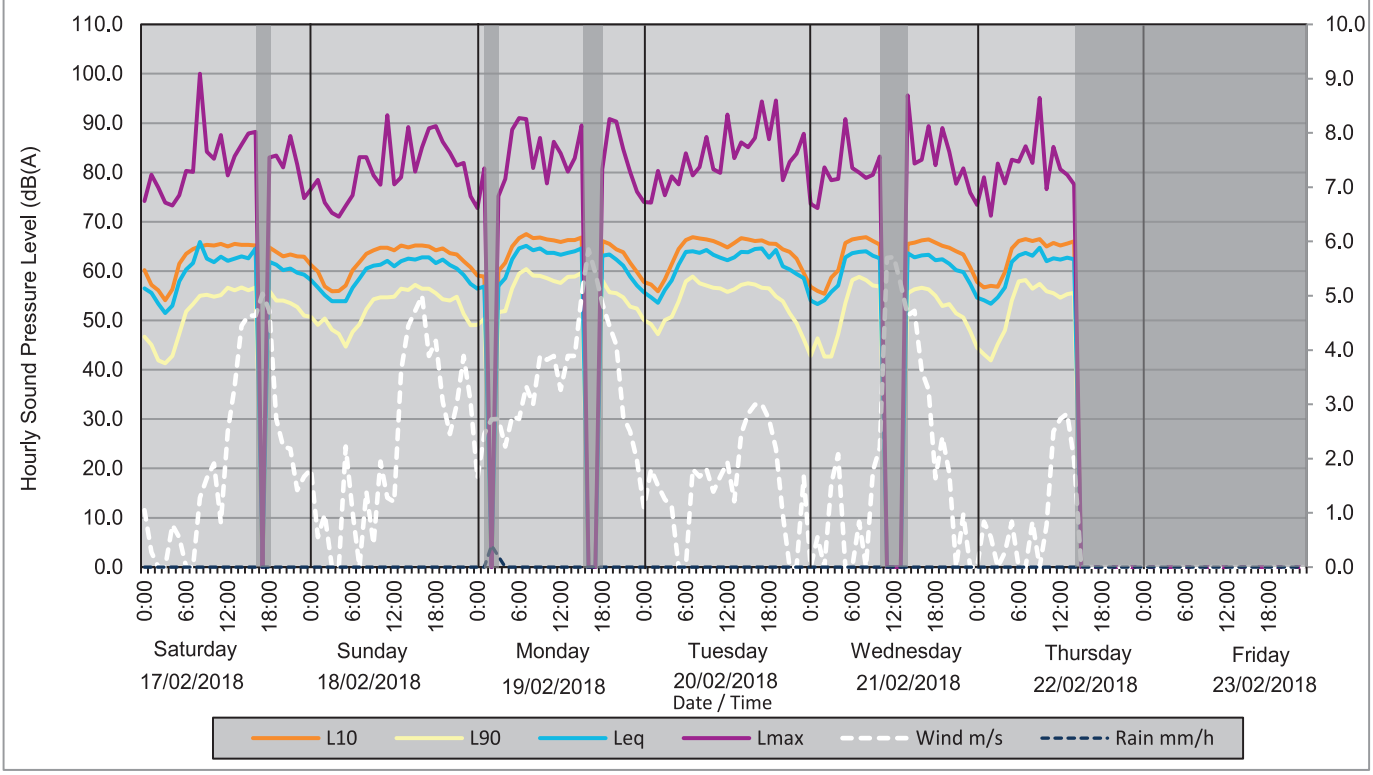
Date	Avg	17/02	18/02	19/02	20/02	21/02
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**65**	64 dBA	64 dBA	65 dBA	65 dBA	65 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**63**	63 dBA	61 dBA	64 dBA	63 dBA	63 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**63**	63 dBA	61 dBA	64 dBA	63 dBA	63 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**58**	57 dBA	57 dBA	59 dBA	58 dBA	58 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**59**	57 dBA	57 dBA	60 dBA	59 dBA	59 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Saturday 17/02/2018							Sunday 18/02/2018							Monday 19/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	60	47	57	74	SSW	1.0	0.0	61	51	58	77	SSW	1.8	0.0	59	49	56	73	S	1.6	0.0
1:00	57	45	56	80	SSW	0.3	0.0	60	49	57	79	SSW	0.6	0.0	59	50	57	81	SSW	2.5	0.0
2:00	56	42	53	77	N	0.0	0.0	57	50	55	74	SW	1.0	0.0					SSW	2.7	0.4
3:00	54	41	52	74	N	0.0	0.0	56	48	54	72	N	0.0	0.0	60	52	57	75	SSW	2.7	0.2
4:00	56	43	53	73	SSE	0.8	0.0	56	47	54	71	N	0.0	0.0	62	52	59	79	SSW	2.2	0.0
5:00	62	47	58	75	SSE	0.5	0.0	57	45	54	73	SSW	2.2	0.0	65	57	62	89	S	2.8	0.0
6:00	64	52	60	80	N	0.0	0.0	60	48	57	75	SE	1.0	0.0	67	60	65	91	SSE	2.7	0.0
7:00	65	53	62	80	N	0.0	0.0	62	49	59	83	N	0.0	0.0	68	60	65	91	S	3.3	0.0
8:00	65	55	66	##	ESE	1.3	0.0	64	52	61	83	ESE	1.4	0.0	67	59	64	81	S	3.0	0.0
9:00	65	55	63	84	NE	1.6	0.0	64	54	61	79	S	0.4	0.0	67	59	65	87	SSE	3.9	0.0
10:00	65	55	62	83	SE	1.9	0.0	65	55	61	78	SSW	1.9	0.0	66	59	64	78	S	3.8	0.0
11:00	66	55	63	88	NE	0.8	0.0	65	55	62	92	S	1.3	0.0	66	58	64	86	SSE	3.9	0.0
12:00	65	57	62	79	SSW	2.5	0.0	64	55	61	78	SSW	1.2	0.0	66	58	63	84	SE	3.3	0.0
13:00	66	56	63	83	SW	3.3	0.0	65	56	62	79	SW	3.6	0.0	66	59	64	80	SSW	3.9	0.0
14:00	65	57	63	86	SW	4.4	0.0	65	56	63	89	SW	4.4	0.0	66	59	64	83	SSW	3.9	0.0
15:00	65	56	63	88	SW	4.6	0.0	65	57	62	80	SW	4.7	0.0	67	60	65	90	SSW	5.0	0.0
16:00	65	57	65	88	SSW	4.6	0.0	65	56	63	85	SSW	5.0	0.0					S	5.9	0.0
17:00					SSW	5.0	0.0	65	56	63	89	S	3.9	0.0					S	5.4	0.0
18:00	65	56	62	83	SSW	4.7	0.0	64	56	62	89	S	4.2	0.0	66	58	63	81	S	4.9	0.0
19:00	64	54	61	83	S	2.7	0.0	65	54	62	86	S	3.1	0.0	66	56	63	91	S	4.4	0.0
20:00	63	54	60	81	S	2.2	0.0	64	54	61	84	S	2.4	0.0	64	56	62	90	SE	4.1	0.0
21:00	63	54	61	87	S	2.2	0.0	63	55	61	81	SSW	3.0	0.0	64	55	61	85	SE	2.8	0.0
22:00	63	53	60	82	S	1.4	0.0	62	51	59	82	SSW	3.9	0.0	62	53	59	80	SE	2.5	0.0
23:00	63	51	59	75	SSW	1.7	0.0	61	49	57	75	SSW	3.1	0.0	60	52	57	76	ESE	2.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	64							64							65						
$L_{eq,15hr,\ 7\text{-}22h}$			63							61							64				
$L_{eq,9hr,\ 22\text{-}7h}$			57							57							60				
$L_{eq,16hr,\ 6\text{-}22h}$			63							61							64				
$L_{eq,8hr,\ 22\text{-}6h}$			57							57							59				
$L_{max,\ 24h}$				##							92							91			
Adverse Weather Count	1							0							3						

Start Time	Tuesday 20/02/2018							Wednesday 21/02/2018							Thursday 22/02/2018							Friday 23/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	58	50	56	74	SE	1.1	0.0	57	43	54	74	N	0.0	0.0	58	45	55	73	N	0.0	0.0							0.0
1:00	57	49	55	74	S	1.8	0.0	56	46	53	73	NE	0.6	0.0	57	43	54	79	N	0.8	0.0							0.0
2:00	56	47	54	80	S	1.5	0.0	55	43	54	81	N	0.0	0.0	57	42	53	71	SE	0.6	0.0							0.0
3:00	58	50	56	75	SSW	1.3	0.0	59	43	56	78	ENE	1.5	0.0	57	45	55	82	N	0.0	0.0							0.0
4:00	61	51	58	79	SSW	1.1	0.0	60	47	57	79	E	2.1	0.0	60	48	57	78	NE	0.3	0.0							0.0
5:00	65	54	61	78	N	0.0	0.0	66	54	63	91	N	0.0	0.0	65	54	62	83	NE	0.8	0.0							0.0
6:00	66	58	64	84	N	0.0	0.0	66	58	64	81	N	0.0	0.0	66	58	63	82	N	0.0	0.0							0.0
7:00	67	59	64	79	SW	1.8	0.0	67	59	64	80	E	0.8	0.0	67	58	64	85	N	0.0	0.0							0.0
8:00	67	58	64	81	SW	1.7	0.0	67	58	64	79	N	0.0	0.0	66	56	63	82	NE	0.8	0.0							0.0
9:00	66	57	64	87	SW	1.8	0.0	66	57	63	80	ENE	1.8	0.0	67	57	65	95	N	0.0	0.0							0.0
10:00	66	57	63	81	W	1.4	0.0	65	57	63	83	ENE	2.2	0.0	65	56	62	77	NE	0.8	0.0							0.0
11:00	66	57	63	80	SW	1.7	0.0					NNE	5.7	0.0	66	56	63	85	NNE	2.5	0.0							0.0
12:00	65	56	62	92	ESE	1.9	0.0					NNE	5.7	0.0	65	55	62	81	ENE	2.7	0.0							0.0
13:00	66	56	63	83	SE	1.2	0.0					N	5.2	0.0	66	55	63	80	NE	2.8	0.0							0.0
14:00	67	57	64	86	S	2.5	0.0	66	56	64	96	N	4.6	0.0	66	56	62	78	N	2.0	0.0							0.0
15:00	66	58	64	85	S	2.8	0.0	66	56	63	82	N	4.7	0.0							0.0							0.0
16:00	66	57	65	87	S	3.0	0.0	66	57	63	83	N	3.6	0.0							0.0							0.0
17:00	66	57	65	94	SW	3.0	0.0	66	56	63	89	N	3.3	0.0							0.0							0.0
18:00	66	57	63	87	SSW	2.7	0.0	66	55	62	82	NE	1.6	0.0							0.0							0.0
19:00	66	55	64	95	SSW	2.2	0.0	65	53	62	89	N	2.4	0.0							0.0							0.0
20:00	64	54	61	78	S	1.0	0.0	65	53	62	84	N	1.7	0.0							0.0							0.0
21:00	64	51	60	82	N	0.0	0.0	64	51	60	78	N	0.0	0.0							0.0							0.0
22:00	63	49	59	84	N	0.0	0.0	63	51	60	81	ENE	1.0	0.0							0.0							0.0
23:00	60	46	59	88	E	1.7	0.0	61	48	57	76	N	0.0	0.0							0.0							0.0
$L_{10,18hr,\ 6\text{-}24h}$	65							65																				
$L_{eq,15hr,\ 7\text{-}22h}$			63							63																		
$L_{eq,9hr,\ 22\text{-}7h}$			59							59																		
$L_{eq,16hr,\ 6\text{-}22h}$			63							63																		
$L_{eq,8hr,\ 22\text{-}6h}$			58							58																		
$L_{max,\ 24h}$				95							96																	
Adverse Weather Count	0							3							9							24						

Project No. 60539390 Project:NEL noise monitoring - Residential

Noise Monitoring Data Sheet — 2 Golden Way, Bulleen

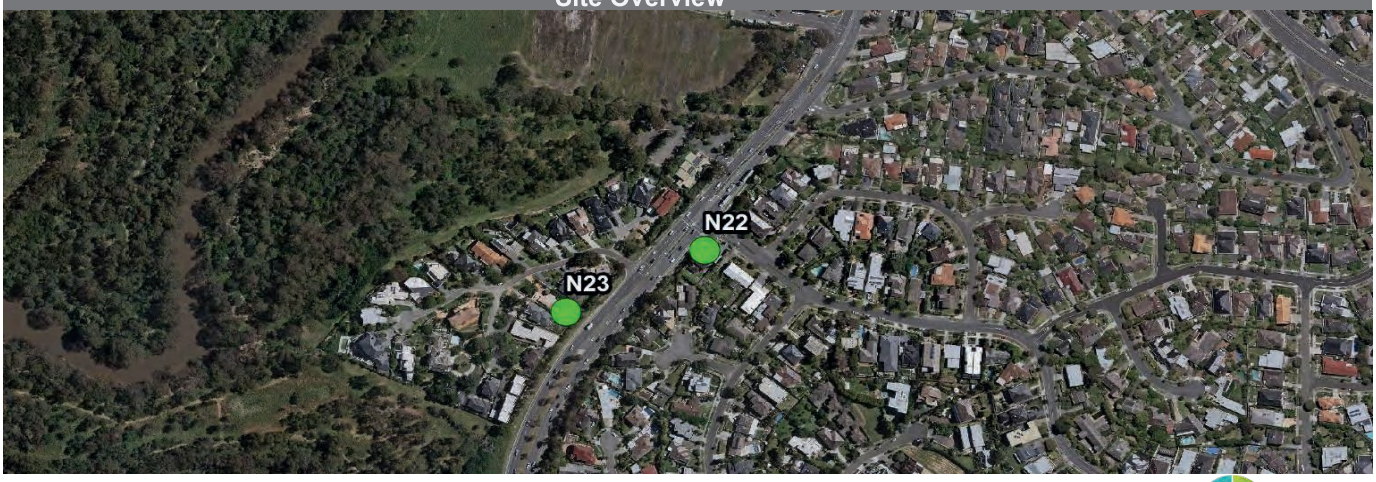
SITE ID **22**

Dominant Road	Bulleen Road	From	24/02/2018	Address	2 Golden Way
18-hr Traffic Flow	-	To	3/03/2018	Suburb	Bulleen
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Façade	Longitude	145° 4'52.40"E
Distance to Road (m)	14	Inst. Serial #	8780CA	Latitude	37°45'59.94"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

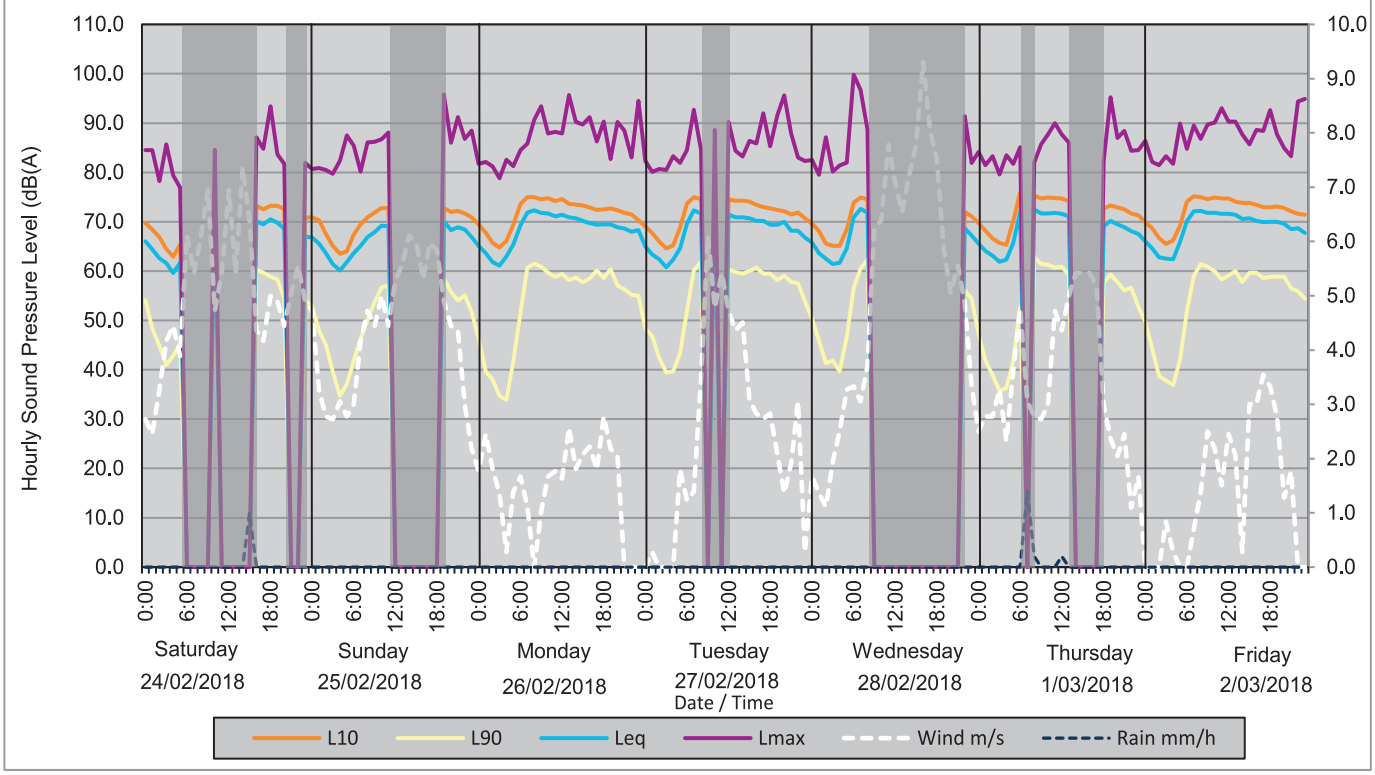
Date	Avg	26/02	27/02	2/03
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**73**	73 dBA	73 dBA	74 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**71**	71 dBA	71 dBA	71 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**71**	71 dBA	71 dBA	71 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**65**	65 dBA	65 dBA	65 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**66**	66 dBA	66 dBA	66 dBA

Site Zoom

Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Saturday 24/02/2018							Sunday 25/02/2018							Monday 26/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	70	54	66	85	ENE	2.7	0.0	71	53	67	81	SSW	4.7	0.0	70	46	65	82	S	1.8	0.0
1:00	68	48	64	85	ENE	2.4	0.0	70	48	66	81	SSW	3.3	0.0	68	40	64	82	S	2.4	0.0
2:00	67	45	63	78	NNE	3.3	0.0	68	45	64	81	SSW	2.8	0.0	66	38	62	81	SSE	1.8	0.0
3:00	65	41	62	86	NNE	4.2	0.0	65	40	61	80	SSW	2.7	0.0	65	35	61	79	SSW	1.4	0.0
4:00	63	43	60	79	NNE	4.4	0.0	64	35	60	82	S	3.1	0.0	66	34	63	83	S	0.3	0.0
5:00	65	45	62	77	N	3.9	0.0	64	37	62	88	S	2.8	0.0	69	42	65	81	SSW	1.4	0.0
6:00					N	6.1	0.0	67	42	64	85	SSW	3.0	0.0	74	52	69	85	SSW	1.7	0.0
7:00					N	5.4	0.0	70	46	65	80	SSW	4.2	0.0	75	61	72	86	SSW	1.1	0.0
8:00					N	6.1	0.0	71	50	67	86	SSW	4.7	0.0	75	62	72	91	N	0.0	0.0
9:00					N	6.9	0.0	72	54	68	86	S	4.4	0.0	75	61	72	93	S	1.0	0.0
10:00	74	60	70	85	NNW	4.7	0.0	73	57	69	87	S	5.0	0.0	75	60	72	88	SSE	1.7	0.0
11:00					NW	5.4	0.0	73	57	69	88	S	4.4	0.0	74	59	71	88	E	1.8	0.0
12:00					SSW	6.9	0.0					SSW	5.3	0.0	75	59	71	88	SSE	1.6	0.0
13:00					SSW	5.4	0.0					SSW	5.6	0.0	74	58	71	96	WNW	2.6	0.0
14:00					SW	7.4	0.0					SSW	6.1	0.0	74	59	71	90	WSW	1.8	0.0
15:00					SW	6.4	1.0					SSW	6.0	0.0	73	58	70	90	W	2.1	0.0
16:00	73	60	70	87	SW	4.4	0.0					SSW	5.3	0.0	73	59	70	91	W	2.2	0.0
17:00	73	60	70	85	SSW	4.2	0.0					SSW	6.0	0.0	72	60	69	86	SW	1.8	0.0
18:00	73	59	71	93	SSW	5.0	0.0					SSW	5.8	0.0	73	59	70	90	SSW	2.8	0.0
19:00	73	58	70	84	SSW	4.9	0.0	73	59	70	96	SSW	4.9	0.0	73	60	70	83	SSW	2.2	0.0
20:00	73	54	69	82	SSW	4.4	0.0	72	56	68	86	S	4.4	0.0	72	57	69	90	SSE	2.0	0.0
21:00					SSW	5.0	0.0	72	54	69	91	SSE	4.4	0.0	72	56	69	89	N	0.0	0.0
22:00					SSW	5.6	0.0	72	55	68	87	SE	3.0	0.0	72	55	68	83	N	0.0	0.0
23:00	71	54	67	82	S	4.9	0.0	71	52	67	89	SE	2.2	0.0	70	55	68	95	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$															73						
$L_{eq,15hr,\ 7\text{-}22h}$																	71				
$L_{eq,9hr,\ 22\text{-}7h}$																	66				
$L_{eq,16hr,\ 6\text{-}22h}$																	71				
$L_{eq,8hr,\ 22\text{-}6h}$																	65				
$L_{max,\ 24h}$																		96			
Adverse Weather Count	11							7							0						

Start Time	Tuesday 27/02/2018							Wednesday 28/02/2018							Thursday 01/03/2018							Friday 02/03/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	69	48	65	82	N	0.0	0.0	70	50	66	83	ENE	1.7	0.0	70	47	66	84	WSW	2.5	0.0	70	50	66	86	N	0.0	0.0
1:00	68	47	63	80	E	0.3	0.0	68	46	64	80	NE	1.4	0.0	68	42	64	82	W	2.8	0.0	69	44	65	82	N	0.0	0.0
2:00	66	43	62	81	N	0.0	0.0	66	41	63	87	E	1.1	0.0	67	39	63	83	W	2.8	0.0	67	39	63	82	N	0.0	0.0
3:00	65	39	61	81	N	0.0	0.0	65	42	61	80	NE	1.9	0.0	66	36	62	80	WSW	3.3	0.0	66	38	63	83	SE	0.8	0.0
4:00	65	40	62	83	N	0.0	0.0	65	40	62	81	ENE	2.5	0.0	65	36	62	84	WSW	2.3	0.0	66	37	62	82	SE	0.3	0.0
5:00	69	43	65	82	ENE	1.8	0.0	69	47	65	82	NE	3.3	0.0	70	42	66	82	SW	3.6	0.0	69	42	66	90	N	0.0	0.0
6:00	74	52	70	85	ENE	1.2	0.0	74	57	71	##	NE	3.3	0.0	76	53	72	85	SSW	4.8	0.0	74	52	70	85	N	0.0	0.0
7:00	75	60	72	93	ENE	1.4	0.0	75	61	73	97	ENE	3.1	0.0					SSW	3.1	1.4	75	59	72	90	S	0.7	0.0
8:00	75	62	72	85	NE	3.5	0.0	75	62	72	89	NNE	3.7	0.0	75	63	73	82	SSW	2.8	0.2	75	61	72	87	SSE	1.4	0.0
9:00					NNE	6.1	0.0					N	6.2	0.0	75	61	72	86	S	2.7	0.0	75	61	72	90	S	2.5	0.0
10:00	74	61	71	89	NNE	4.8	0.0					NNE	6.4	0.0	75	61	72	88	S	3.0	0.0	75	60	72	90	SW	2.2	0.0
11:00					N	5.4	0.0					NNW	7.8	0.0	75	61	72	90	SSW	4.7	0.0	75	58	72	93	ESE	1.5	0.0
12:00	75	60	72	90	NNE	4.7	0.0					NW	7.1	0.0	75	61	72	88	SSW	4.4	0.2	75	59	72	90	S	2.4	0.0
13:00	74	60	71	84	NNE	4.4	0.0					WNW	6.5	0.0	74	59	71	86	SW	5.0	0.0	74	60	71	90	S	2.1	0.0
14:00	74	60	71	83	NNE	4.5	0.0					W	7.2	0.0					SW	5.4	0.0	74	58	71	88	WSW	0.3	0.0
15:00	74	60	71	86	ENE	3.1	0.0					W	7.8	0.0					SW	5.4	0.0	74	60	71	86	W	3.0	0.0
16:00	73	61	70	86	NE	2.8	0.0					W	9.3	0.0					SW	5.4	0.0	73	60	70	89	W	3.0	0.0
17:00	73	60	70	92	NNE	2.7	0.0					W	8.1	0.0					SW	5.2	0.0	73	59	70	88	W	3.5	0.0
18:00	73	60	69	85	NE	2.8	0.0					WSW	7.5	0.0	73	58	69	82	SSW	3.0	0.0	73	59	70	93	W	3.3	0.0
19:00	72	58	69	92	ENE	2.1	0.0					WSW	5.9	0.0	73	59	70	95	S	2.4	0.0	73	59	70	88	W	2.8	0.0
20:00	72	59	70	96	E	1.4	0.0					WSW	5.0	0.0	73	58	70	87	SSW	2.0	0.0	73	59	70	85	SW	1.3	0.0
21:00	72	58	68	88	E	1.9	0.0					W	5.6	0.0	73	56	69	88	SSW	2.5	0.0	72	57	69	83	SSW	1.8	0.0
22:00	72	58	68	83	NNE	3.1	0.0	72	56	69	91	W	4.9	0.0	72	57	68	84	SSE	1.1	0.0	72	56	69	94	N	0.0	0.0
23:00	71	54	67	82	ESE	0.3	0.0	71	54	67	82	WSW	3.3	0.0	71	53	68	85	SSW	1.7	0.0	71	54	68	95	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	73																					74						
$L_{eq,15hr,\ 7\text{-}22h}$			71																					71				
$L_{eq,9hr,\ 22\text{-}7h}$			66																					66				
$L_{eq,16hr,\ 6\text{-}22h}$			71																					71				
$L_{eq,8hr,\ 22\text{-}6h}$			65																					65				
$L_{max,\ 24h}$				96																					95			
Adverse Weather Count	2							13							5							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

Noise Monitoring Data Sheet

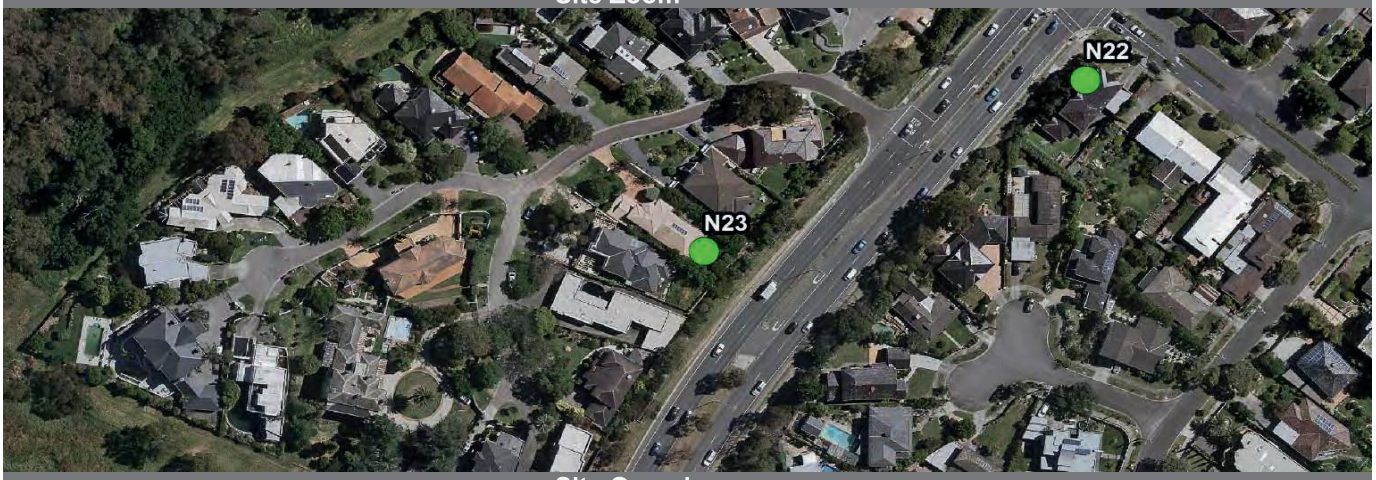
3 Ilma Ct, Bulleen

SITE ID
23

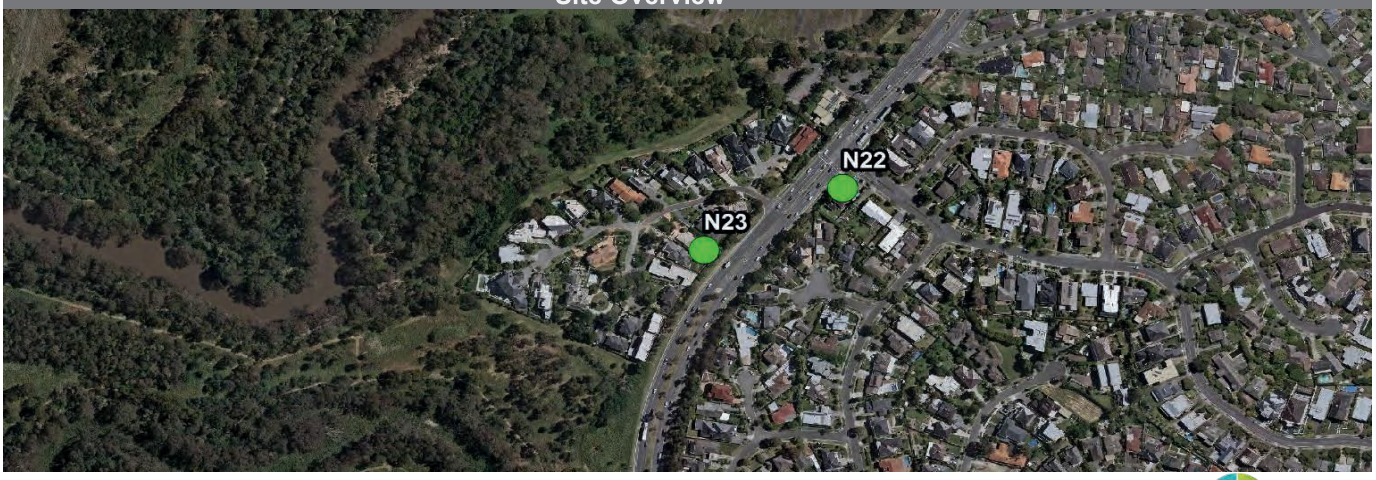
Dominant Road	Bulleen Road	From	24/02/2018	Address	3 Ilma Ct
18-hr Traffic Flow	-	To	6/03/2018	Suburb	Bulleen
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Façade	Longitude	145° 4'47.80"E
Distance to Road (m)	25	Inst. Serial #	164394	Latitude	37°46'1.60"S
% of H.V.	-	Operator	JC	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	26/02	27/02	2/03	3/03	4/03
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**61**	61 dBA	61 dBA	61 dBA	61 dBA	60 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**59**	59 dBA	59 dBA	59 dBA	60 dBA	57 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**59**	59 dBA	59 dBA	59 dBA	60 dBA	57 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**55**	55 dBA	54 dBA	55 dBA	55 dBA	55 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**56**	56 dBA	56 dBA	56 dBA	56 dBA	55 dBA

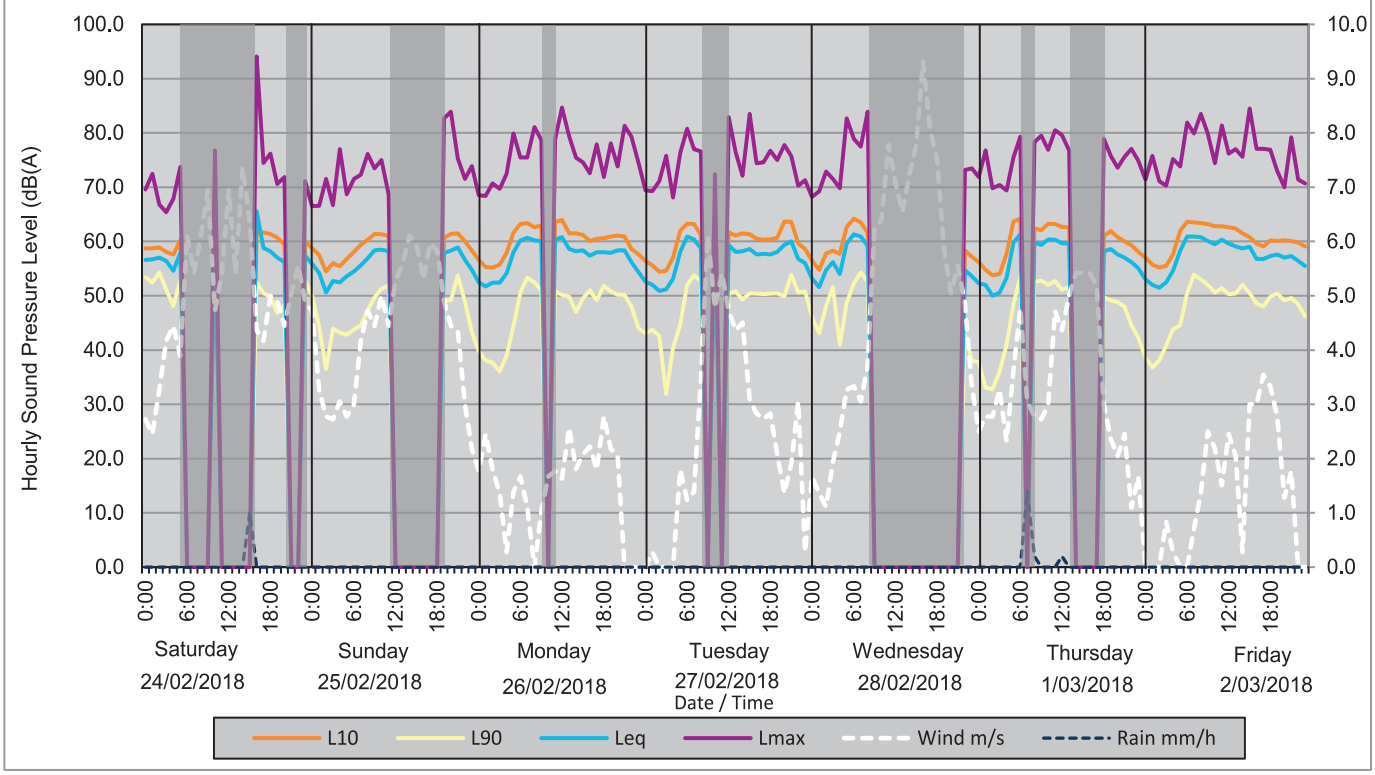
Site Zoom



Site Overview



Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Saturday 24/02/2018							Sunday 25/02/2018							Monday 26/02/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	59	53	57	70	ENE	2.7	0.0	59	50	56	67	SSW	4.7	0.0	57	40	53	69	S	1.8	0.0
1:00	59	52	57	73	ENE	2.4	0.0	58	44	54	67	SSW	3.3	0.0	55	38	52	68	S	2.4	0.0
2:00	59	54	57	67	NNE	3.3	0.0	55	37	51	72	SSW	2.8	0.0	55	38	52	71	SSE	1.8	0.0
3:00	58	51	56	65	NNE	4.2	0.0	56	44	53	67	SSW	2.7	0.0	56	36	52	70	SSW	1.4	0.0
4:00	58	48	55	68	NNE	4.4	0.0	55	43	53	77	S	3.1	0.0	58	39	54	73	S	0.3	0.0
5:00	60	53	58	74	N	3.9	0.0	57	43	54	69	S	2.8	0.0	62	44	58	80	SSW	1.4	0.0
6:00					N	6.1	0.0	58	44	55	72	SSW	3.0	0.0	63	51	60	76	SSW	1.7	0.0
7:00					N	5.4	0.0	59	45	56	72	SSW	4.2	0.0	63	53	61	76	SSW	1.1	0.0
8:00					N	6.1	0.0	60	47	57	76	SSW	4.7	0.0	63	53	60	81	N	0.0	0.0
9:00					N	6.9	0.0	61	50	58	74	S	4.4	0.0	63	51	60	79	S	1.0	0.0
10:00	61	50	58	77	NNW	4.7	0.0	61	51	59	75	S	5.0	0.0					SSE	1.7	0.0
11:00					NW	5.4	0.0	61	52	58	69	S	4.4	0.0	64	51	60	79	E	1.8	0.0
12:00					SSW	6.9	0.0					SSW	5.3	0.0	64	50	61	85	SSE	1.6	0.0
13:00					SSW	5.4	0.0					SSW	5.6	0.0	62	50	59	79	WNW	2.6	0.0
14:00					SW	7.4	0.0					SSW	6.1	0.0	62	47	58	75	WSW	1.8	0.0
15:00					SW	6.4	1.0					SSW	6.0	0.0	61	50	58	75	W	2.1	0.0
16:00	62	52	66	94	SW	4.4	0.0					SSW	5.3	0.0	60	51	57	73	W	2.2	0.0
17:00	62	51	59	75	SSW	4.2	0.0					SSW	6.0	0.0	61	49	58	78	SW	1.8	0.0
18:00	61	50	58	76	SSW	5.0	0.0					SSW	5.8	0.0	61	52	58	72	SSW	2.8	0.0
19:00	61	47	57	71	SSW	4.9	0.0	61	49	58	83	SSW	4.9	0.0	61	51	58	78	SSW	2.2	0.0
20:00	60	48	56	72	SSW	4.4	0.0	61	49	58	84	S	4.4	0.0	61	50	58	74	SSE	2.0	0.0
21:00					SSW	5.0	0.0	62	54	59	75	SSE	4.4	0.0	61	50	58	81	N	0.0	0.0
22:00					SSW	5.6	0.0	60	49	57	72	SE	3.0	0.0	59	48	56	79	N	0.0	0.0
23:00	60	53	57	71	S	4.9	0.0	58	43	55	74	SE	2.2	0.0	58	44	54	74	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$															61						
$L_{eq,15hr,\ 7\text{-}22h}$																	59				
$L_{eq,9hr,\ 22\text{-}7h}$																	56				
$L_{eq,16hr,\ 6\text{-}22h}$																	59				
$L_{eq,8hr,\ 22\text{-}6h}$																	55				
$L_{max,\ 24h}$																		85			
Adverse Weather Count	11							7							1						

Start Time	Tuesday 27/02/2018							Wednesday 28/02/2018							Thursday 01/03/2018							Friday 02/03/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	56	43	53	69	N	0.0	0.0	57	46	53	68	ENE	1.7	0.0	56	38	52	72	WSW	2.5	0.0	57	39	53	71	N	0.0	0.0
1:00	56	44	52	69	E	0.3	0.0	55	43	52	69	NE	1.4	0.0	55	33	52	77	W	2.8	0.0	56	37	52	76	N	0.0	0.0
2:00	54	43	51	71	N	0.0	0.0	58	48	55	73	E	1.1	0.0	54	33	50	70	W	2.8	0.0	55	38	52	71	N	0.0	0.0
3:00	55	32	51	76	N	0.0	0.0	58	52	56	72	NE	1.9	0.0	54	36	51	70	WSW	3.3	0.0	56	41	53	70	SE	0.8	0.0
4:00	57	40	53	68	N	0.0	0.0	58	41	54	70	ENE	2.5	0.0	58	41	53	69	WSW	2.3	0.0	58	44	55	75	SE	0.3	0.0
5:00	62	45	58	76	ENE	1.8	0.0	63	49	60	83	NE	3.3	0.0	64	48	60	76	SW	3.6	0.0	62	45	58	74	N	0.0	0.0
6:00	63	52	61	81	ENE	1.2	0.0	64	52	61	79	NE	3.3	0.0	64	54	61	79	SSW	4.8	0.0	64	51	61	82	N	0.0	0.0
7:00	63	54	60	77	ENE	1.4	0.0	64	54	61	78	ENE	3.1	0.0					SSW	3.1	1.4	64	54	61	80	S	0.7	0.0
8:00	61	53	59	77	NE	3.5	0.0	62	53	59	84	NNE	3.7	0.0	62	53	60	78	SSW	2.8	0.2	63	53	61	84	SSE	1.4	0.0
9:00					NNE	6.1	0.0					N	6.2	0.0	62	53	59	80	S	2.7	0.0	63	52	60	80	S	2.5	0.0
10:00	62	50	59	72	NNE	4.8	0.0					NNE	6.4	0.0	63	52	60	77	S	3.0	0.0	63	51	60	74	SW	2.2	0.0
11:00					N	5.4	0.0					NNW	7.8	0.0	63	53	60	81	SSW	4.7	0.0	63	51	60	81	ESE	1.5	0.0
12:00	62	50	59	83	NNE	4.7	0.0					NW	7.1	0.0	63	51	60	80	SSW	4.4	0.2	63	50	60	76	S	2.4	0.0
13:00	61	51	58	77	NNE	4.4	0.0					WNW	6.5	0.0	63	52	60	77	SW	5.0	0.0	62	50	59	77	S	2.1	0.0
14:00	62	49	58	72	NNE	4.5	0.0					W	7.2	0.0					SW	5.4	0.0	62	52	59	76	WSW	0.3	0.0
15:00	61	51	59	84	ENE	3.1	0.0					W	7.8	0.0					SW	5.4	0.0	61	51	59	85	W	3.0	0.0
16:00	61	50	58	74	NE	2.8	0.0					W	9.3	0.0					SW	5.4	0.0	60	49	57	77	W	3.0	0.0
17:00	60	50	58	75	NNE	2.7	0.0					W	8.1	0.0					SW	5.2	0.0	59	48	57	77	W	3.5	0.0
18:00	60	50	58	77	NE	2.8	0.0					WSW	7.5	0.0	61	50	58	79	SSW	3.0	0.0	60	50	57	77	W	3.3	0.0
19:00	61	51	58	75	ENE	2.1	0.0					WSW	5.9	0.0	62	49	59	76	S	2.4	0.0	60	50	58	73	W	2.8	0.0
20:00	64	50	59	78	E	1.4	0.0					WSW	5.0	0.0	61	49	58	74	SSW	2.0	0.0	60	49	57	70	SW	1.3	0.0
21:00	64	54	60	76	E	1.9	0.0					W	5.6	0.0	60	48	57	76	SSW	2.5	0.0	60	50	57	79	SSW	1.8	0.0
22:00	60	51	57	70	NNE	3.1	0.0	58	43	55	73	W	4.9	0.0	59	45	56	77	SSE	1.1	0.0	60	48	56	71	N	0.0	0.0
23:00	59	51	56	71	ESE	0.3	0.0	57	38	54	74	WSW	3.3	0.0	58	42	55	75	SSW	1.7	0.0	59	46	56	71	N	0.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$	61																					61						
$L_{eq,15hr,\ 7\text{-}22h}$			59																					59				
$L_{eq,9hr,\ 22\text{-}7h}$			56																					56				
$L_{eq,16hr,\ 6\text{-}22h}$			59																					59				
$L_{eq,8hr,\ 22\text{-}6h}$			54																					55				
$L_{max,\ 24h}$				84																					85			
Adverse Weather Count	2							13							5							0						

Project No. 60539390 Project:NEL noise monitoring - Residential

Noise Monitoring Data Sheet

8 Ben Nevis Gr, Bulleen

SITE ID
24

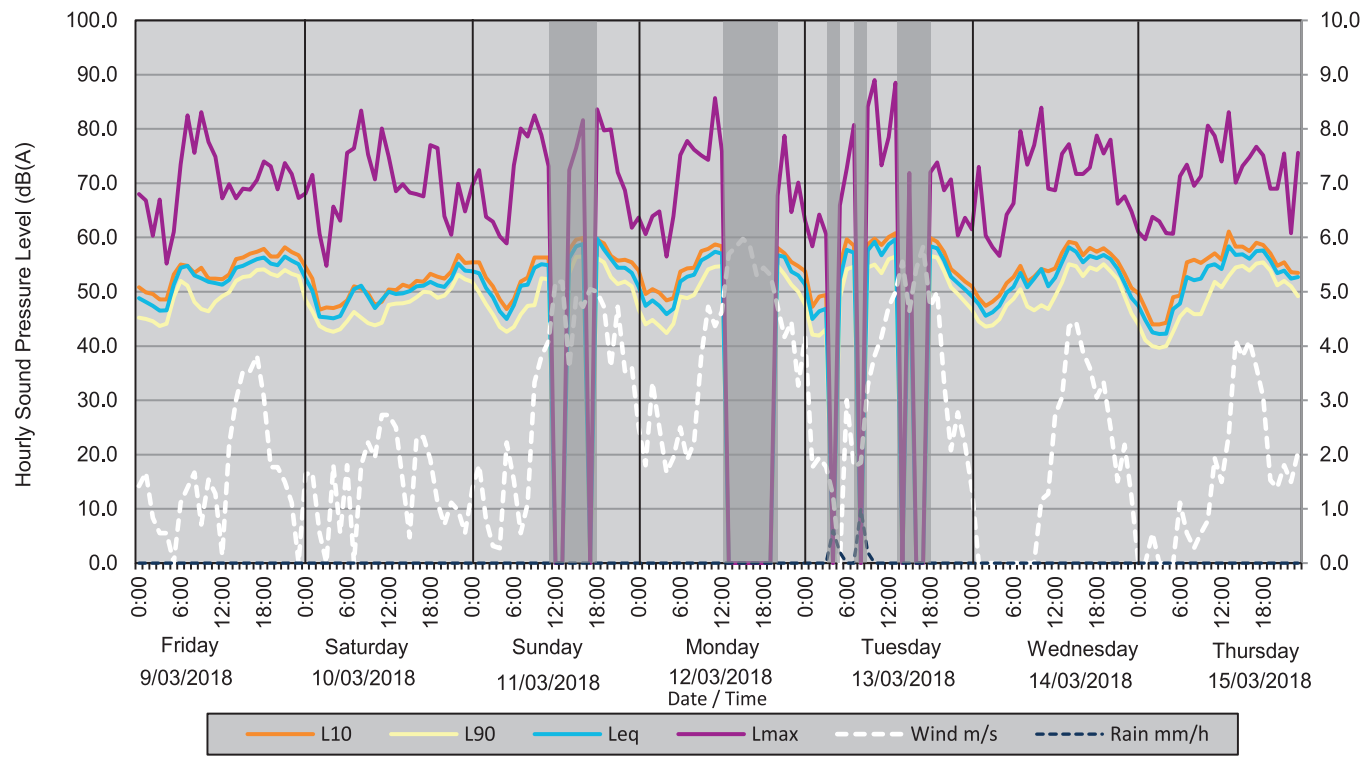
Dominant Road	Bulleen Road	From	9/03/2018	Address	8 Ben Nevis Gr
18-hr Traffic Flow	-	To	21/03/2018	Suburb	Bulleen
Road Surface	Stone Seal	Mic. Height (m)	1.5	State	Victoria
Posted Speed (km/h)	60	Meas. Type	Façade	Longitude	145° 4'54.12"E
Distance to Road (m)	250	Inst. Serial #	175537	Latitude	37°46'36.30"S
% of H.V.	-	Operator	MV	BOM Station	Viewbank
Pre Calibration	94.0	Post Calibration	94.0	Sample Int.(min)	60

Date	Avg	9/03	10/03	11/03	14/03	15/03	16/03	19/03	20/03	21/03
$L_{10,18hr,\ Arith\ Av,\ 6\text{-}24h}$	**55**	55 dBA	51 dBA	56 dBA	55 dBA	56 dBA	53 dBA	54 dBA	59 dBA	55 dBA
$L_{eq,15hr,\ Log\ Av,\ 7\text{-}22h}$	**55**	54 dBA	51 dBA	56 dBA	55 dBA	56 dBA	52 dBA	53 dBA	58 dBA	54 dBA
$L_{eq,16hr,\ Log\ Av,\ 6\text{-}22h}$	**55**	54 dBA	50 dBA	56 dBA	55 dBA	55 dBA	52 dBA	53 dBA	58 dBA	54 dBA
$L_{eq,8hr,\ Log\ Av,\ 22\text{-}6h}$	**50**	49 dBA	51 dBA	52 dBA	49 dBA	47 dBA	51 dBA	47 dBA	51 dBA	52 dBA
$L_{eq,9hr,\ Log\ Av,\ 22\text{-}7h}$	**51**	50 dBA	51 dBA	52 dBA	49 dBA	47 dBA	51 dBA	47 dBA	53 dBA	52 dBA

Site Zoom

Site Overview

Site Noise and Weather Graphical Analysis



Site Photograph

Hourly Measurement Results - Sound Pressure Levels, dB(A)

Start Time	Friday 09/03/2018							Saturday 10/03/2018							Sunday 11/03/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	51	45	49	68	N	1.4	0.0	55	49	53	68	NW	1.6	0.0	55	52	54	70	ESE	1.4	0.0
1:00	50	45	48	67	NNW	1.7	0.0	52	46	50	72	NNW	1.7	0.0	55	50	53	72	W	1.8	0.0
2:00	50	45	47	60	NNW	0.8	0.0	47	44	45	61	NE	0.6	0.0	53	48	51	64	NNW	0.8	0.0
3:00	49	44	47	67	N	0.6	0.0	47	43	45	55	N	0.0	0.0	51	46	49	63	SSE	0.3	0.0
4:00	49	44	47	55	N	0.6	0.0	47	43	45	66	ENE	1.8	0.0	49	44	46	60	ENE	0.3	0.0
5:00	53	49	51	61	N	0.0	0.0	47	43	46	63	ENE	0.6	0.0	47	43	45	59	E	2.2	0.0
6:00	55	52	54	74	NNE	1.1	0.0	48	45	48	76	ENE	1.8	0.0	49	44	48	73	E	1.5	0.0
7:00	55	51	55	83	NNE	1.4	0.0	51	46	51	76	N	0.0	0.0	52	46	51	80	N	0.6	0.0
8:00	54	48	53	76	NNE	1.7	0.0	51	45	51	83	ENE	1.8	0.0	53	47	51	79	WSW	1.1	0.0
9:00	54	47	53	83	ENE	0.7	0.0	50	44	49	75	E	2.2	0.0	56	48	54	83	WSW	3.3	0.0
10:00	52	46	52	78	ENE	1.5	0.0	48	44	47	71	E	1.9	0.0	56	53	55	79	SW	3.8	0.0
11:00	52	48	52	75	SSE	1.3	0.0	48	44	49	80	ENE	2.7	0.0	56	52	55	73	SSW	4.1	0.0
12:00	52	49	51	67	ESE	0.1	0.0	50	48	50	75	NE	2.7	0.0					SW	5.2	0.0
13:00	53	50	52	70	SW	2.2	0.0	50	48	50	69	NE	2.5	0.0					SW	5.2	0.0
14:00	56	52	54	67	SW	3.0	0.0	51	48	50	70	N	1.5	0.0	58	53	56	72	SSW	3.6	0.0
15:00	56	53	55	69	SW	3.5	0.0	51	48	50	68	NE	0.5	0.0	60	56	58	77	SSW	4.9	0.0
16:00	57	53	55	69	SW	3.5	0.0	52	49	51	68	N	2.3	0.0	60	57	59	82	SW	4.7	0.0
17:00	57	54	56	71	SW	3.8	0.0	52	50	51	68	ENE	2.3	0.0					SSW	5.0	0.0
18:00	58	54	56	74	SSW	3.1	0.0	53	50	52	77	E	1.9	0.0	60	56	60	84	SW	5.0	0.0
19:00	57	53	55	73	SSW	1.8	0.0	53	49	51	77	E	1.1	0.0	59	55	58	80	SW	4.7	0.0
20:00	57	53	55	69	SSW	1.8	0.0	52	49	51	64	NE	0.7	0.0	57	53	56	80	SSW	3.6	0.0
21:00	58	54	57	74	SW	1.5	0.0	54	51	52	61	NNE	1.1	0.0	56	51	54	72	SSW	4.7	0.0
22:00	57	53	56	72	WSW	1.1	0.0	57	53	55	70	SSW	1.0	0.0	56	52	54	69	S	3.5	0.0
23:00	57	53	55	67	N	0.0	0.0	55	52	54	65	W	0.6	0.0	55	51	54	62	SSW	3.6	0.0
$L_{10,18hr,\ 6\text{-}24h}$	55							51							56						
$L_{eq,15hr,\ 7\text{-}22h}$			54							51							56				
$L_{eq,9hr,\ 22\text{-}7h}$			50							51							52				
$L_{eq,16hr,\ 6\text{-}22h}$			54							50							56				
$L_{eq,8hr,\ 22\text{-}6h}$			49							51							52				
$L_{max,\ 24h}$				83							83							84			
Adverse Weather Count	0							0							3						

Start Time	Monday 12/03/2018							Tuesday 13/03/2018							Wednesday 14/03/2018							Thursday 15/03/2018						
	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h	L_{10}	L_{90}	L_{eq}	L_{max}	Wind Dir	Wind m/s	Rain mm/h
0:00	54	47	51	64	S	2.5	0.0	54	48	51	63	SSW	4.2	0.0	51	47	49	62	WSW	1.4	0.0	50	44	47	61	N	0.0	0.0
1:00	50	44	47	61	S	1.8	0.0	47	42	45	58	SSW	1.8	0.0	49	45	48	73	N	0.0	0.0	47	41	45	60	N	0.0	0.0
2:00	51	45	48	64	S	3.3	0.0	49	42	46	64	SW	1.9	0.0	47	44	46	60	N	0.0	0.0	44	40	43	64	S	0.6	0.0
3:00	50	44	47	65	S	2.5	0.0	49	43	47	61	W	1.8	0.0	48	44	46	58	N	0.0	0.0	44	40	42	63	N	0.0	0.0
4:00	48	42	46	57	S	1.7	0.0					W	1.3	0.6	49	45	47	57	N	0.0	0.0	44	40	42	61	N	0.0	0.0
5:00	49	44	47	64	S	1.9	0.0	55	49	52	66	N	0.0	0.2	52	48	50	64	N	0.0	0.0	49	43	47	61	N	0.0	0.0
6:00	54	49	52	75	S	2.5	0.0	60	54	58	73	SW	3.0	0.0	53	49	51	66	N	0.0	0.0	49	45	48	71	S	1.1	0.0
7:00	54	49	53	78	S	1.9	0.0	59	55	57	81	WSW	1.8	0.0	55	51	54	80	N	0.0	0.0	55	47	53	73	S	0.6	0.0
8:00	54	49	53	76	S	2.2	0.0					SSW	1.8	1.0	52	47	51	73	N	0.0	0.0	56	46	52	70	S	0.3	0.0
9:00	58	52	56	75	SSW	3.8	0.0	59	55	58	84	SSW	3.3	0.2	53	47	52	77	N	0.0	0.0	55	46	52	71	S	0.6	0.0
10:00	58	54	57	74	SSW	4.7	0.0	60	55	59	89	SSW	3.8	0.0	54	48	54	84	SSW	1.2	0.0	56	49	55	81	SE	0.8	0.0
11:00	59	55	57	86	SSW	4.4	0.0	59	53	57	73	SSW	4.2	0.0	54	47	51	69	E	1.3	0.0	57	52	55	79	SW	1.9	0.0
12:00	58	55	57	76	SW	4.6	0.0	60	56	59	79	SW	4.7	0.0	54	49	53	69	WSW	2.7	0.0	56	51	54	74	SW	1.5	0.0
13:00					SSW	5.7	0.0	61	57	60	89	SSW	5.0	0.0	57	52	55	75	SW	3.1	0.0	61	53	58	83	SW	2.4	0.0
14:00					SSW	5.8	0.0					SSW	5.6	0.0	59	55	58	77	SW	4.4	0.0	58	55	57	70	SW	4.1	0.0
15:00					SSW	6.0	0.0	61	57	59	72	SW	4.6	0.0	59	55	57	72	SW	4.4	0.0	58	55	57	73	WSW	3.8	0.0
16:00					SSW	5.9	0.0					SSW	5.4	0.0	57	53	55	72	SW	3.9	0.0	58	54	56	75	SW	4.1	0.0
17:00					SSW	5.3	0.0					SSW	5.8	0.0	58	55	57	73	SW	3.6	0.0	59	55	58	77	S	3.6	0.0
18:00					S	5.4	0.0	60	57	58	72	SSW	4.7	0.0	57	54	56	79	SSW	3.1	0.0	59	55	58	75	S	3.1	0.0
19:00					S	5.3	0.0	59	56	58	74	SSW	5.0	0.0	58	55	57	76	SSW	3.3	0.0	57	54	56	69	S	1.5	0.0
20:00	58	55	57	68	SSW	4.7	0.0	57	54	56	69	SSW	3.3	0.0	57	54	56	78	SW	2.5	0.0	55	51	53	69	SE	1.4	0.0
21:00	57	53	56	79	SSW	4.2	0.0	54	51	53	71	S	2.1	0.0	56	52	54	66	SSW	1.5	0.0	55	52	54	76	S	1.8	0.0
22:00	56	51	54	65	SSW	4.4	0.0	53	50	52	60	SSW	2.8	0.0	53	49	52	68	SSW	2.2	0.0	54	51	52	61	SSW	1.5	0.0
23:00	55	50	53	70	SW	3.3	0.0	52	48	50	64	SSW	2.2	0.0	51	46	49	65	SSW	1.2	0.0	54	49	53	76	SSW	2.0	0.0
$L_{10,18hr,\ 6\text{-}24h}$															55							56						
$L_{eq,15hr,\ 7\text{-}22h}$																	55							56				
$L_{eq,9hr,\ 22\text{-}7h}$																	49							47				
$L_{eq,16hr,\ 6\text{-}22h}$																	55							55				
$L_{eq,8hr,\ 22\text{-}6h}$																	49							47				
$L_{max,\ 24h}$																		84							83			
Adverse Weather Count	7							5							0							0						

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NORTH EAST LINK PROJECT