Annexure 2

Monitoring Data and Reports

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Available in colour on the project CD

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Table A2-1
2014 Groundwater Levels

Bore	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CQ1												
CQ3	10.43	10.58	11.45	10.08	10.11	10.25	10.89	10.80	10.41	10.46	10.54	10.71
CQ4	10.61	10.84	10.97	10.91	8.62	10.74	10.90	11.07	11.00	10.91	10.98	11.05
CQ5	7.11	7.60	7.78	7.30	6.79	7.24	7.61	8.01	7.55	7.10	7.32	7.55
CQ6	*	*	*	10.62	10.49	10.81	10.94	11.24	10.54	10.60	10.82	10.90
CQ7	6.59	6.97	6.49	6.00	6.00	6.28	6.39	6.67	6.02	6.29	6.44	6.50
CQ8	6.09	6.58	6.25	5.66	5.57	5.88	6.00	6.29	5.62	5.76	5.90	5.93
CQ9	9.14	9.34	8.82	8.53	8.58	8.80	8.86	9.01	8.64	8.95	9.04	8.89
CQ10	23.15	23.59	23.67	23.78	23.65	23.90	24.18	24.46	24.26	24.37	24.52	24.46
CQ11S	10.83	11.15	11.18	11.67	10.94	11.35	11.23	11.47	11.40	11.31	11.39	11.50
CQ11D	12.01	12.39	12.40	12.36	12.05	12.17	12.38	12.63	12.44	12.46	12.34	12.65
CQ12	4.52	5.10	4.93	4.37	4.16	4.37	4.57	4.91	4.25	4.05	4.17	4.28
CQ13	13.98	14.44	14.39	14.19	13.76	14.04	14.52	14.86	14.09	15.03	14.87	15.00
CP3	9.37	9.65	9.58	9.63	9.56	9.34	9.66	10.10	10.13	9.46	11.00	9.99
CP4	10.89	11.50	11.60	11.40	10.85	11.22	11.77	12.06	9.87	10.99	11.18	11.54
CP5	8.35	9.09	9.97	8.92	8.25	8.64	13.88	9.70	9.24	10.13	9.24	9.41
CP6	11.05	11.36	11.95	10.95	10.34	11.33	14.77	11.79	11.23	11.84	10.40	12.40
CP7	3.12	4.00	3.62	2.46	3.02	3.70	4.13	4.77	3.25	3.39	3.66	3.49
CP8			21.14	11.62	19.98	20.47	20.78	21.26	20.68	20.30	20.62	20.67
MW7	16.03	16.70	16.50	15.43	15.11	15.55	15.77	16.45	15.61	15.44	15.74	16.23
MW8	7.61	7.90	8.16	7.87	7.15	7.35	7.64	7.99	7.82	7.44	7.55	5.67
MW9	22.20	22.45	22.57	22.61	22.53	22.71	22.89	23.11	22.96	23.02	23.12	23.12
MW10	*	*	*	*	12.54	12.90	13.00	13.34	11.70	11.45	11.70	12.38
MW13	8.07	*	*	*	7.58	7.79	7.87	8.07	7.64	7.73	7.91	8.03
MW16	*	*	*	*	8.12	8.38	8.48	8.73	8.12	8.30	8.52	8.65
MW17									9.99	10.03	10.32	10.50

* Bore not accessible at time of sampling — NR = Not required by resident

Source: Carbon Based Environmental

Table A2-2
2014 Groundwater Quality

Bore	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
pH												
CQ1												
CQ3	6.3	6.6	7.3	7.5	6.9	7.6	6.3	6.3	6.5	6.3	7.6	7.3
CQ4	4.7	4.9	5.7	5.9	4.8	5.4	4.7	4.7	3.9	4.3	4.2	4.6
CQ5	4.2	4.4	5.2	5.1	4.5	4.9	4.2	4.4	3.6	4.3	3.8	4.2
CQ6				5.2	4.6	4.8	4.0	4.5	3.8	4.1	3.9	4.2
CQ7	4.8	4.7	5.5	5.2	5.0	4.6	4.3	4.5	3.9	4.3	4.0	4.5
CQ8	4.4	4.6	5.3	5.3	4.7	4.7	4.0	4.7	3.9	4.3	4.0	4.3
CQ9	4.4	4.8	6.6	5.5	4.8	4.6	4.0	4.5	4.0	4.1	4.0	4.5
CQ10	6.4	4.8	5.4	4.5	4.7	5.5	4.2	4.5	4.2	4.1	3.8	4.5
CQ11S	4.5	4.9	5.4	5.1	4.9	5.5	4.4	4.9	4.3	4.5	4.2	4.7
CQ11D	4.5	4.8	5.5	5.2	4.9	5.7	4.4	4.7	4.3	4.7	4.2	4.5
CQ12	4.3	4.6	5.3	5.0	4.4	4.1	3.9	4.4	3.8	4.0	4.0	4.3
CQ13	4.4	4.6	5.2	4.5	4.7	4.7	4.2	4.4	3.9	4.1	3.8	5.0
CP3	4.7	4.9	5.5	5.4	4.7	5.5	4.4	4.6	4.5	4.5	4.3	4.7
CP4												
CP5	4.6	4.7	5.9	4.9	5.1	4.7	4.1	4.5	4.4	3.8	4.0	4.3
CP6	4.5	4.7	5.4	4.8	4.8	4.7	4.2	4.6	4.0	3.3	4.0	4.3
CP7	5.2	5.4	6.2	5.7	5.7	5.1	4.4	4.8	4.5	4.3	4.2	4.8
CP8			5.3	5.2	4.7	4.6	4.2	4.4	4.1	3.4	3.9	4.4
MW7	4.5	4.9	5.3	4.6	4.5	5.4	4.2	4.6	3.9	3.9	4.5	4.5
MW8	4.7	5.0	5.7	4.7	4.7	5.2	4.5	4.7	4.1	4.1	4.1	4.7
MW9	4.7	4.9	5.6	4.8	4.6	5.5	4.0	4.3	4.0	4.6	4.0	4.6
MW10					4.4	4.7	4.3	4.4	4.1	4.0	3.7	4.5
MW13	4.4				4.5	5.4	4.0	4.3	4.0	4.1	4.1	4.3
MW16					4.5	4.8	4.5	4.5	4.1	4.3	3.9	4.3
MW17									5.0	4.9	4.8	4.8
Electrical Conductivity (µS/cm)												
CQ1												
CQ3	151	219	211	232	227	175	185	167	158	170	98	132
CQ4	103	132	120	140	149	126	139	126	130	145	85	106
CQ5	171	215	182	187	198	168	189	168	185	190	128	156
CQ6				212	251	209	242	207	202	213	138	167
CQ7	100	132	111	118	131	115	133	118	119	128	75	95
CQ8	140	179	153	147	177	154	184	150	150	158	101	123
CQ9	112	136	113	131	142	130	150	124	126	139	81	104
CQ10	205	229	189	185	224	188	195	182	175	182	134	159
CQ11S	154	194	163	171	201	169	195	165	165	173	110	138
CQ11D	159	198	168	177	206	172	203	173	171	184	118	145
CQ12	129	166	144	151	175	149	176	148	151	163	100	120
CQ13	225	279	238	242	288	245	280	243	240	248	166	201
CP3	145	188	154	165	196	165	175	157	155	163	105	134
CP4												
CP5	227	292	202	246	284	244	283	246	213	252	158	183
CP6	195	243	203	198	252	197	232	205	213	213	147	181
CP7	151	180	135	136	147	142	167	146	108	132	73	92
CP8			154	154	190	161	180	158	157	166	105	132
MW7	114	171	122	124	151	128	137	125	126	135	83	108
MW8	84	121	92	96	115	94	98	87	88	99	58	73
MW9	99	115	96	106	119	99	105	94	102	98	63	77
MW10					164	135	154	137	134	145	92	101
MW13	100				135	115	123	114	118	120	76	93
MW16					146	122	154	121	127	127	83	113
MW17									132	139	85	118

Table A2-3
2006 to 2014 Surface Water Monitoring Results

Site	A (Dam below F)					B					C					D					F				
Parameter	**pH**	**EC**	**TDS**	**TSS**	**Oil & Grease**	**pH**	**EC**	**TDS**	**TSS**	**Oil & Grease**	**pH**	**EC**	**TDS**	**TSS**	**Oil & Grease**	**pH**	**EC**	**TDS**	**TSS**	**Oil & Grease**	**pH**	**EC**	**TDS**	**TSS**	**Oil & Grease**
Date sampled																									
2006 – average	5.27	96		3	<5																6.22	93		4.5	<5
2007 – average	5.48	78	46	12	<5																5.81	79	48	15	<5
2008 – average	6.29	63	49	13	<5	7.2	80	70	2.5	<5	6.25	107	57	<1	<5	5.92	102	60	3	<5	6.15	64	55	23	<5
2009 – average	5.94	79	53	6	<5	6.57	82	68	18	<5	5.91	108	65	4	<5	5.40	104	98	11	<5	6.12	77	49	7	<5
2010 – average	5.59	82	61	5	<5	5.94	73	101	17	<5	6.41	106	74	9	<5	5.09	138	92	7	<5	5.85	81	57	4	<5
2011 – average	5.69	73	47	8	<5	6.70	112	78	12	<5						5.46	96	70	<5	<5	5.35	73	48	13	<5
2012 – average	6.09	63	48	9	<5	6.61	69	52	13	<5						5.99	78	64	34	<5	6.17	59	40	13	<5
2013 – average	5.95	64	51	14	<5	5.88	77	76	28	<5	7.96	74	56	18	<5	5.72	83	74	14	<5	5.77	61	45	29	<5
3/01/2014	5.49	76	57	<5	<5																4.97	78	56	<5	<5
3/02/2014	6.57	86	61	9	<5																6.32	92	73	<5	<5
5/03/2014	5.45	91	71	<5	<5	5.55	86	67	<5	<5						5.36	118	93	<5	<5	5.57	85	66	<5	<5
4/04/2014	5.77	74	37	8	<5	6.86	94	70	<5	<5						5.53	81	58	<5	8	5.61	75	45	5	<5
2/05/2014	5.94	71	38	<5	<5											5.43	94	55	10	<5	5.68	72	39	<5	<5
2/06/2014	5.02	75	33	<5	<5																4.87	76	37	<5	<5
3/07/2014	5.98	77	61	<5	<5																5.86	78	58	<5	<5
4/08/2014	5.99	81	50	<5	<5																5.89	83	51	<5	<5
4/09/2014	5.78	78	52	6	<5	6.72	98	70	<5	<5						5.66	87	70	<5	<5	5.69	79	58	12	<5
2/10/2014	6.02	72	44	<5	<5																5.65	78	50	9	<5
3/11/2014	5.95	79	32	<5	<5																5.65	91	43	5	<5
5/12/2014	6.26	77	43	<5	<5											5.92	88	48	<5	<5	6.37	84	41	6	<5
5/01/2015	6.48	86	63	5	<5											5.87	108	76	9	<5	5.89	90	62	<5	<5

Samples collected as wet weather samples (daily rainfall >50mm)

Results assembled by Carbon Based Environmental Pty Limited

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Figure A2-1
2009 to 2014 Surface Water pH

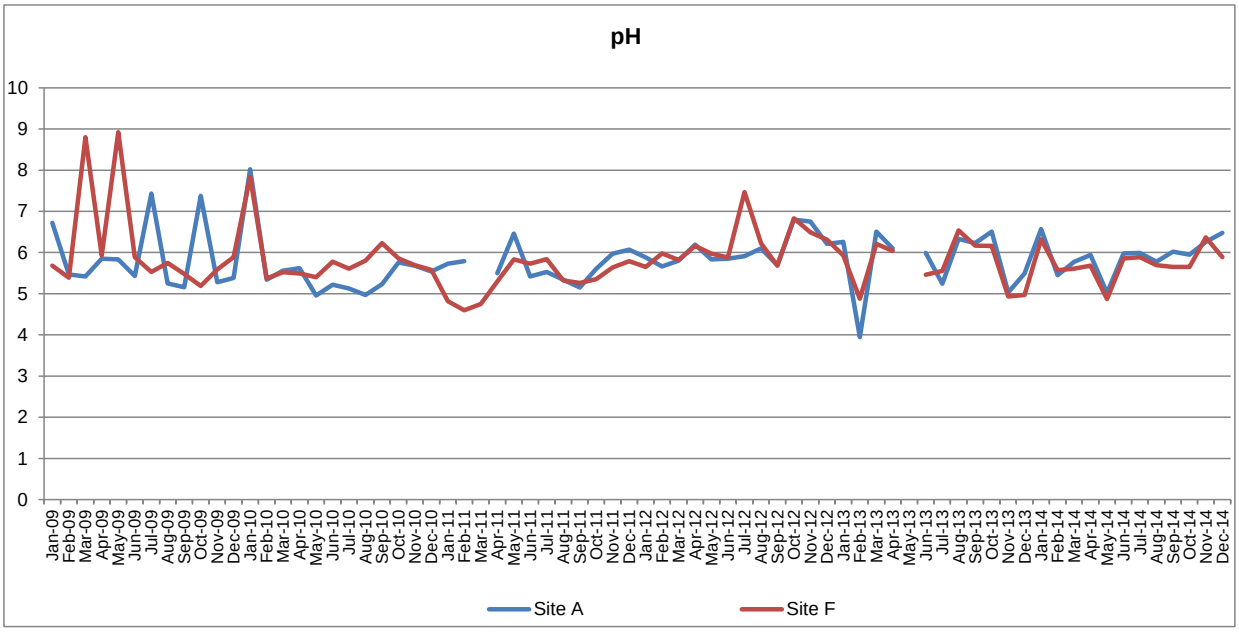


Figure A2-2
2009 to 2014 Surface Water Electrical Conductivity

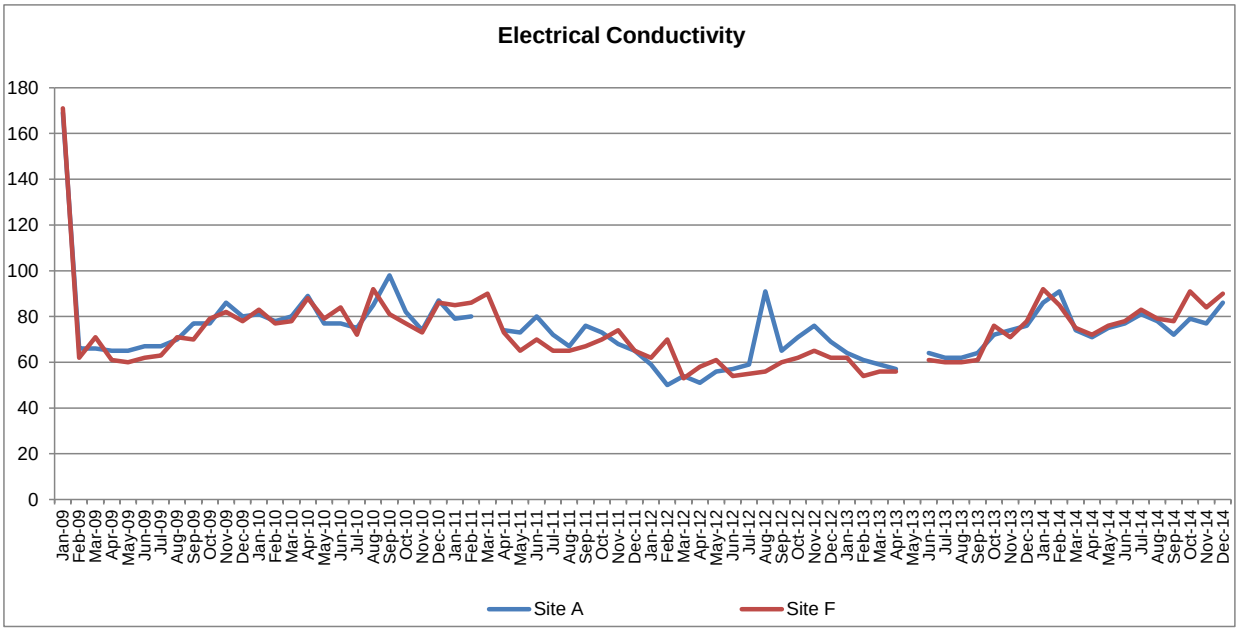


Figure A2-3
2009 to 2014 Surface Water Total Dissolved Solids

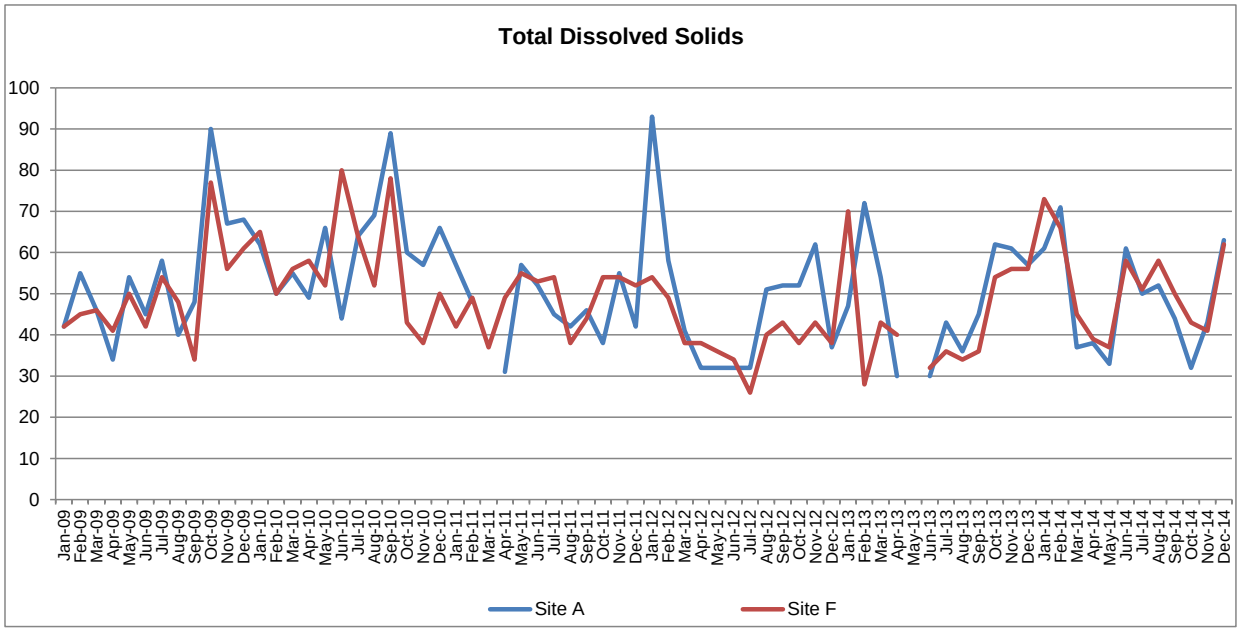


Figure A2-4
2009 to 2014 Surface Water Total Suspended Solids

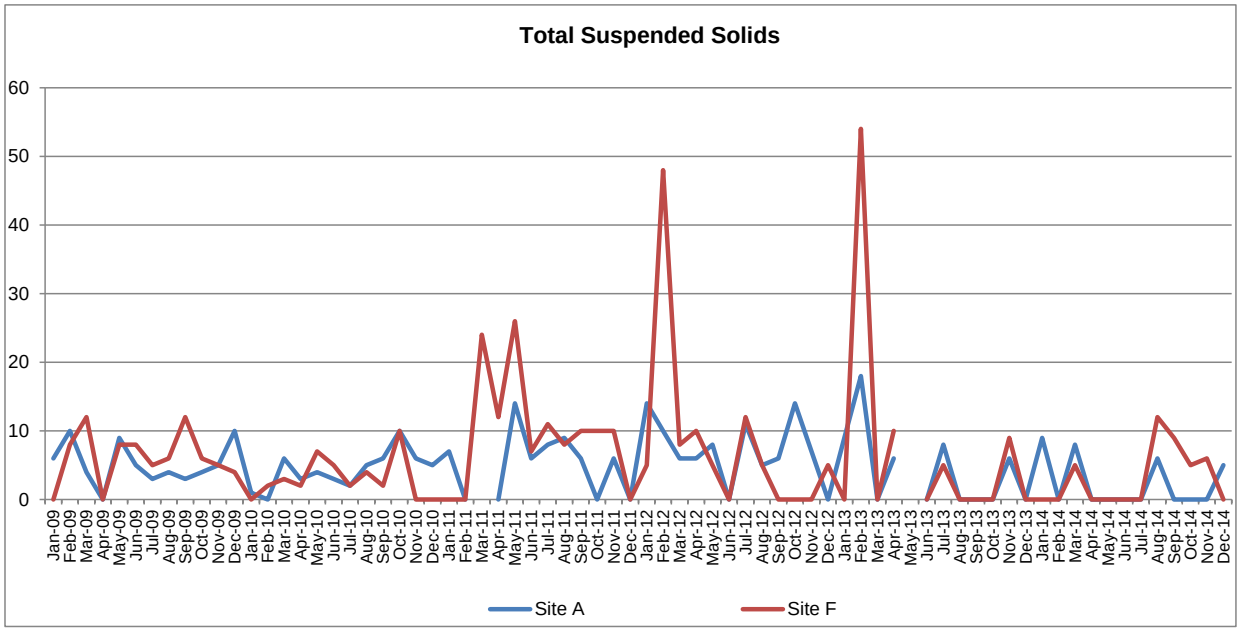


Table A2-4
Noise Monitoring Results 2014

Attended Noise Measurement Results (Wednesday, 19 March 2014)

Location	Time	$L_{Aeq,15min}$ due to Quarry Operations (dB(A))	Daytime Criteria $L_{Aeq,15min}$ (dB(A))	Comments
CN-1	11.15am – 11.30am	30	41	Distant quarry noise audible most of the time 29-30dBA. Mobile plant engine noise audible very briefly L_{Amax} 38dBA. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 52-55dBA and L_{Amax} 62-65dBA, respectively.
CN-3	11.35am – 11.50am	30	39	Distant quarry noise audible most of the time 28-32dBA. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 38-45dBA and L_{Amax} 49-53dBA, respectively.
CN-2	11.55am – 12.10pm	27	40	Distant quarry noise audible most of the time 26-28dBA. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 50-52dBA and L_{Amax} 54-57dBA, respectively. Birds nearby L_{Amax} 54-58dBA.
CN-4	12.16pm – 12.31pm	34	35	Distant quarry noise audible most of the time 33-34dBA. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 52-53dBA and L_{Amax} 56-58dBA, respectively.

Table A2-4 (Cont'd)
Noise Monitoring Results 2014

Attended Noise Measurement Results (Tuesday, 22 July 2014)

Location	Time	$L_{Aeq,15min}$ due to Quarry Operations (dB(A))	Daytime Criteria $L_{Aeq,15min}$ (dB(A))	Comments
CN-1	11.19am – 11.34am	34	41	Distant site noise audible, est. 34dBA. Traffic on Peats Ridge Road controlled maximum noise levels as follows: light vehicles: L_{Amax} 60dBA and heavy vehicles: L_{Amax} 68dBA.
CN-3	11.49am – 12.04pm	inaudible	39	Quarry operations inaudible throughout measurement. Traffic on Peats Ridge Road controlled maximum noise levels as follows: light vehicles: L_{Amax} 58dBA and heavy vehicles: L_{Amax} 69dBA.
CN-4	12.14pm – 12.29pm	inaudible	35	Quarry operations inaudible throughout measurement. Traffic on Peats Ridge Road controlled maximum noise levels as follows: light vehicles: L_{Amax} 37dBA and heavy vehicles: L_{Amax} 43dBA.
CN-2	12.47pm – 1.02pm	inaudible	40	Quarry operations inaudible throughout measurement. Traffic on Peats Ridge Road controlled maximum noise levels as follows: light vehicles: L_{Amax} 56dBA and heavy vehicles: L_{Amax} 65dBA.

Table A2-4 (Cont'd)
Noise Monitoring Results 2014

Unattended Noise Measurement Results during Operating Hours

	Measured $L_{Ae,15min}$		Measured $L_{A1,1min}$
Location	**Day (7:00am-6:00pm Mon-Fri and 7:00am-4:00pm Sat)**	**Evening (6:00pm-10:00pm Mon-Fri)**	**Night (5:00am-7:00am Mon-Sat)**
CN-1	50-67dBA (typically 50-60dBA)	45-63dBA (typically 45-54dBA)	66-75dBA
CN-2	43-68dBA (typically 43-56dBA)	43-53dBA	63-76dBA
CN-3	50-67dBA (typically 50-58dBA)	43-55dBA	65-70dBA
CN-4	35-55dBA (typically 35-52dBA)	34-46dBA	50-75dBA

Table A2-4 (Cont'd)
Noise Monitoring Results 2014

Attended Noise Measurement Results (Thursday, 18 September 2014)

Location	Time	$L_{Aeq,15min}$ due to Quarry Operations (dB(A))	Daytime Criteria $L_{Aeq,15min}$ (dB(A))	Comments
CN-1	2.22pm – 2.37pm	38	41	Dozer (including track noise at times) operating in Stage 3/4 audible most of the time, 38-56dBA. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 52-55dBA and L_{Amax} 66-71dBA, respectively.
CN-3	2.40pm – 2.55pm	35	39	Dozer (including track noise at times) operating in Stage 3/4 audible most of the time, 35-48dBA. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 55-56dBA and L_{Amax} 58-62dBA, respectively.
CN-4	2.59pm – 3.14pm	inaudible	35	Quarry noise inaudible at all times. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 48-50dBA and L_{Amax} 55-56dBA, respectively.
CN-2	3.18pm – 3.33pm	35	40	Dozer (including track noise at times) operating in Stage 3/4 audible most of the time, 35-52dBA. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 56-59dBA and L_{Amax} 62-66dBA, respectively.

Table A2-4 (Cont'd)
Noise Monitoring Results 2014

Attended Noise Measurement Results (Wednesday, 10 December 2014)

Location	Time	$L_{Aeq,15min}$ due to Quarry Operations (dB(A))	Daytime Criteria $L_{Aeq,15min}$ (dB(A))	Comments
CN-1	12.15pm – 12.30pm	34	41	Distant mobile plant audible most of the time, 33-35dBA. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 49-52dBA and L_{Amax} 61-74dBA, respectively.
CN-2	12.39pm – 12.54pm	inaudible	40	Quarry noise inaudible at all times. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 56-58dBA and L_{Amax} 62-63dBA, respectively. Cicadas, 43-44dBA.
CN-4	12.59pm – 1.14pm	35	35	Quarry noise audible at times, estimated 34-36dBA. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 48-51dBA and L_{Amax} 55-58dBA, respectively.
CN-3	1.17pm – 1.32pm	inaudible	39	Quarry noise inaudible at all times. Typical and heavy traffic on Peats Ridge Road measured with L_{Amax} 60-65dBA and L_{Amax} 70-73dBA, respectively.

Table A2-5
2005 to 2014 Deposited Dust Monitoring Results

Month	CD-1	CD-2a	CD-2b	CD-3	CD-4	CD-5	CD-6
Jan-06		0.8		0.5			
Feb-06		1.6		0.5			
Mar-06		4.0		0.4			
Apr-06		4.3		0.5			
May-06	1.2	6.9		0.4			
Jun-06	1.2	5.0		0.2			
Jul-06	0.7	C		1.1			
Aug-06	1.6		1.0	0.5			
Sep-06	0.9		0.3	0.9			
Oct-06	2.3		1.2	0.8	0.7		
Nov-06	3.3		1.1	1.7	1.6		
Dec-06	2.0		3.9	3.2	1.6	2.5	2.2
2006 Average	1.7		1.5	0.9	1.3	2.5	2.2
Jan-07	0.8		0.9	0.6	C	C	C
Feb-07	1.9		1.3	1.2	1.2	0.8	1.0
Mar-07	1.8		1.8	1.6	1.2	1.1	0.7
Apr-07	0.5		1.1	0.4	0.7	0.6	C
May-07	0.9		0.6	0.4	0.8	1.6	3.0
Jun-07	1.0		1.6	0.4	0.2	0.3	0.1
Jul-07	1.0		1.5	0.6	0.8	0.5	1.0
Aug-07	1.3		1.8	0.9	0.9	0.6	0.9
Sep-07	0.6		0.9	0.5	3.3	1.0	0.9
Oct-07	2.1		4.8	1.3	1.6	1.4	1.4
Nov-07	2.6		2.5	1.1	0.9	0.9	1.2
Dec-07	0.4		1.2	1.4	1.1	1.0	1.4
2007 Average	1.2		1.7	0.9	1.2	0.9	1.2
Jan-08	1.4		0.4	0.5	0.6	2.9	0.4
Feb-08	0.9		1.0	1.2	0.7	0.5	0.8
Mar-08	0.9		2.0	0.5	0.4	0.3	0.4
Apr-08	0.6		1.8	0.4	0.3	0.4	0.3
May-08	0.6		0.5	0.3	1.2	0.2	0.5
Jun-08	1.4		1.2	0.4	1.7	C	1.1
Jul-08	0.8		0.9	0.2	1.1	0.5	1.4
Aug-08	0.7		2.2	0.3	0.4	0.2	3.0
Sep-08	0.5		C	0.6	0.5	0.4	2.3
Oct-08	1.0		C	1.3	0.8	0.9	0.9
Nov-08	1.4		2.3	0.8	1.0	0.6	0.8
Dec-08	1.5		4.0	0.6	1.1	C	0.7
2008 Average	1.0		1.6	0.6	0.8	0.7	1.1

C = Contaminated NR = Not Recorded * Dust from local source – excluded from 2010 average

Results assembled by Carbon Based Environmental Pty Limited

Table A2-5 (Cont'd)
2005 to 2014 Deposited Dust Monitoring Results

Month	CD-1	CD-2b	CD-2c	CD-3	CD-4	CD-5	CD-6
Jan-09	2.4	3.6		1.3	1.2	1.1	1.5
Feb-09	1.8	C		1.8	1.3	1.4	0.9
Mar-09	2.0	C		1.1	0.7	1.2	1.4
Apr-09	1.4	C		0.4	0.2	0.1	0.8
May-09	1.2	C		1.8	0.7	0.7	1.6
Jun-09	0.3	1.6		0.1	0.1	0.1	0.3
Jul-09	0.4	C		2.1	0.7	0.6	0.6
Aug-09	1.3	C		1.0	1.4	0.4	0.8
Sep-09	5.3	C		3.0	3.5	3.1	6.1
Oct-09	1.9	1.8		1.1	1.1	0.9	1.9
Nov-09	2.9	3.2		1.7	1.2	1.5	4.3
Dec-09	2.8	2.6		2.4	2.5	3.2	2.3
2009 Average	2.0	2.6		1.5	1.2	1.2	1.9
Jan-10	1.3	3.6*		0.6	0.8	0.9	1.2
Feb-10	1.0		2.0	0.7	0.4	0.5	1.5
Mar-10	2.2		0.9	0.7	0.8	0.5	0.8
Apr-10	2.2		0.8	0.6	NR	0.5	0.6
May-10	0.7		1.5	0.7	0.7	0.3	0.8
Jun-10	0.6		3.3	0.3	0.2	0.6	0.2
Jul-10	0.7		0.5	0.3	0.3	0.4	0.4
Aug-10	0.4		0.3	0.1	0.1	0.1	0.2
Sep-10	1.2		1.0	0.4	0.8	0.2	0.2
Oct-10	0.9		0.4	0.3	0.8	0.4	0.7
Nov-10	1.1		0.5	0.4	0.2	0.4	0.3
Dec-10	3.3		1.0	0.5	0.4	0.6	1.6
2010 Average	1.3		1.1	0.5	0.5	0.5	0.7
Jan-11	0.6		1.2	0.3	0.2	0.6	0.3
Feb-11	6.4		1.6	0.7	1.2	0.9	1
Mar-11	1.4		1.6	1	0.2	0.1	0.2
Apr-11	4.8		0.9	0.6	0.1	0.1	0.2
May-11	1.6		0.6	0.2	0.1	0.1	0.6
Jun-11	0.8		0.4	0.3	0.1	0.2	1.1
Jul-11	0.6		0.4	1.9	0.7	0.3	0.4
Aug-11	0.4		0.5	0.2	0.2	0.2	0.5
Sep-11	2.7		0.7	2	0.3	0.2	0.5
Oct-11	3.8		0.4	0.3	0.3	0.3	0.3
Nov-11	0.9		0.4	0.3	0.7	0.4	0.5
Dec-11	0.6		0.4	0.4	0.5	0.4	0.5
2011 Average	2.1		0.8	0.7	0.4	0.3	0.5

C = Contaminated NR = Not Recorded * Dust from local source – excluded from 2010 average

Results assembled by Carbon Based Environmental Pty Limited

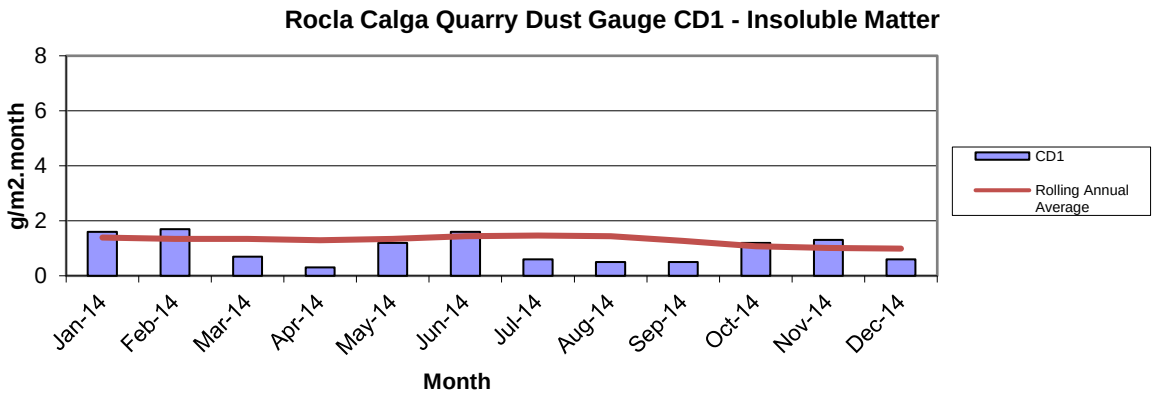
Table A2-5 (Cont'd)
2005 to 2014 Deposited Dust Monitoring Results

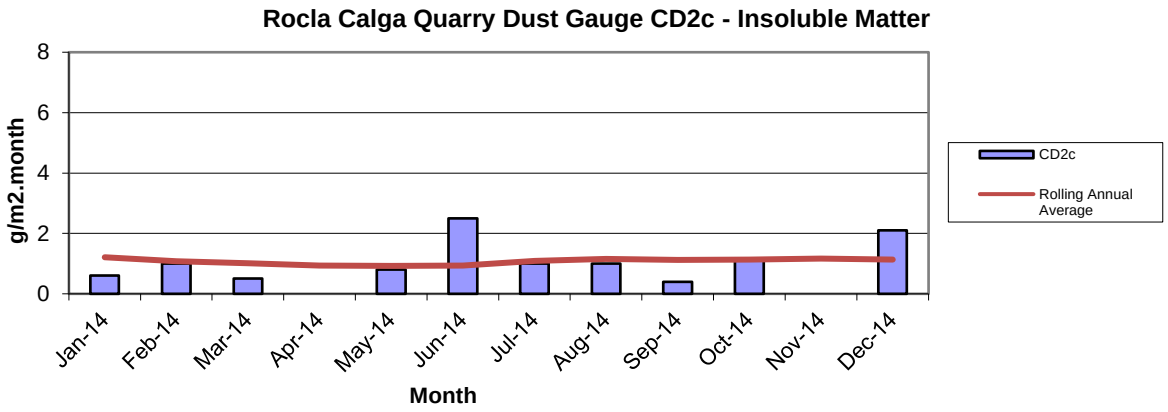
Month	CD-1	CD-2b	CD-2c	CD-3	CD-4	CD-5	CD-6
Jan-12	2.2		0.8	0.7	0.4	0.3	0.5
Feb-12	2.1		0.9	0.7	0.3	0.2	0.4
Mar-12	2.1		0.8	0.6	0.4	0.3	0.5
Apr-12	1.8		0.8	0.7	0.5	0.3	0.5
May-12	1.7		0.9	0.7	0.5	0.3	0.5
Jun-12	1.7		0.9	0.7	0.5	0.3	0.4
Jul-12	1.6		0.9	0.6	0.5	0.3	0.4
Aug-12	1.7		0.9	1.1	0.5	0.3	0.4
Sep-12	1.6		1.0	1.1	0.5	0.3	0.4
Oct-12	1.4		1.2	1.1	0.5	0.3	0.4
Nov-12	1.7		1.2	1.2	0.5	0.3	0.5
Dec-12	1.8		1.3	1.3	0.5	0.3	0.5
2012 Average	1.8		1.3	1.3	0.5	0.3	0.5
Jan-13	1.5		0.9	1.1	0.6	0.4	0.5
Feb-13	2.2		0.5	0.5	0.4	0.4	0.4
Mar-13	0.6		0.3	1.0	0.3	0.5	0.5
Apr-13	0.9		0.3	0.4	0.2	0.1	0.5
May-13	0.6		1.2	0.5	0.2	0.2	0.5
Jun-13	0.5		0.8	0.6	0.4	0.5	0.4
Jul-13	0.4		2.1	0.5	0.5	0.2	0.4
Aug-13	0.8		1.9	0.8	0.4	0.2	0.4
Sep-13	2.3		0.9	1.7	0.4	0.2	0.4
Oct-13	3.4		2.2	15.3	1.2	0.9	0.4
Nov-13	1.9		4.9c	1.6	0.8	0.6	0.5
Dec-13	3.8c		1.4	2.0	1.1	0.9	0.5
2013 Average	1.4		1.1	2.2	0.5	0.4	0.6
Jan-14	1.6		0.6	0.8	0.7	0.3	0.7
Feb-14	1.7		1.0	1.2	0.6	0.8	1.0
Mar-14	0.7		0.5	0.6	0.5	0.5	0.7
Apr-14	0.3		6.1c	1.2	0.3	0.3	0.6
May-14	1.2		0.8	1.4	0.3	0.2	0.7
Jun-14	1.6		2.5	4.2	1.1	0.5	0.8
Jul-14	0.6		1.0	0.6	0.3	0.1	0.8
Aug-14	0.5		1.0	0.7	0.7	0.5	1.4
Sep-14	0.5		0.4	0.4	0.4	0.2	0.4
Oct-14	1.2		1.1	2.0	0.7	0.3	0.6
Nov-14	1.3		4.3c	2.3	1.5	1.0	0.7
Dec-14	0.6		2.1	1.5	1.1	1.6	1.4
2014 Average	1.0		1.8	1.4	0.7	0.5	0.8

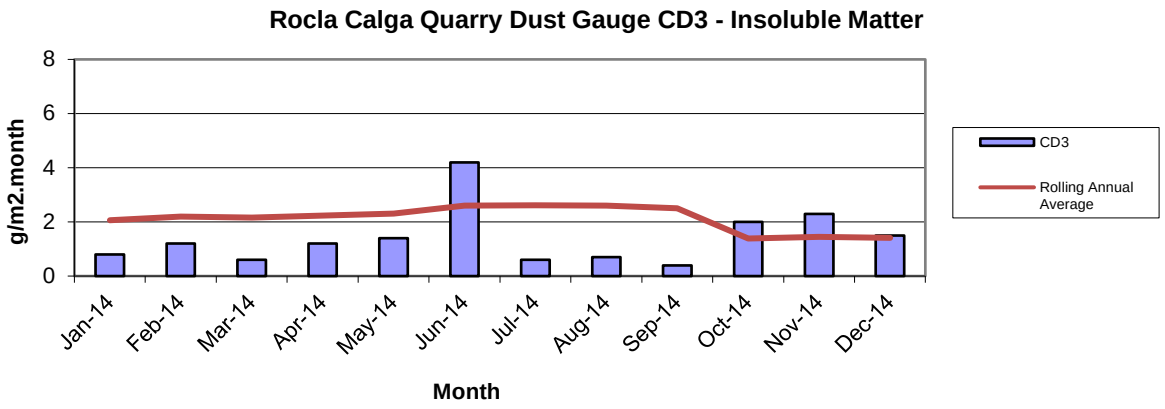
C = Contaminated NR = Not Recorded * Dust from local source – excluded from 2010 average

Results assembled by Carbon Based Environmental Pty Limited

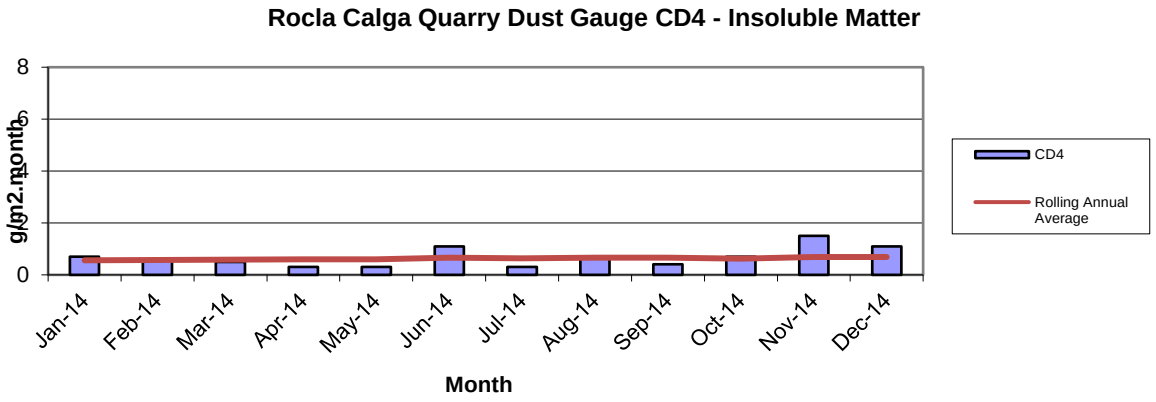
Figures A2-5 to A2-7
2014 Deposited Dust Monitoring Graphs

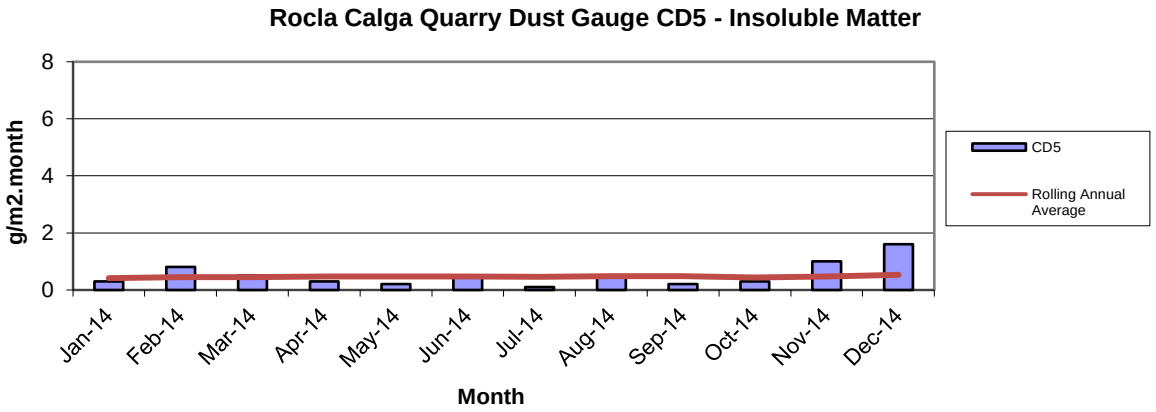






Figures A2-8 to A2-10
2014 Deposited Dust Monitoring Graphs





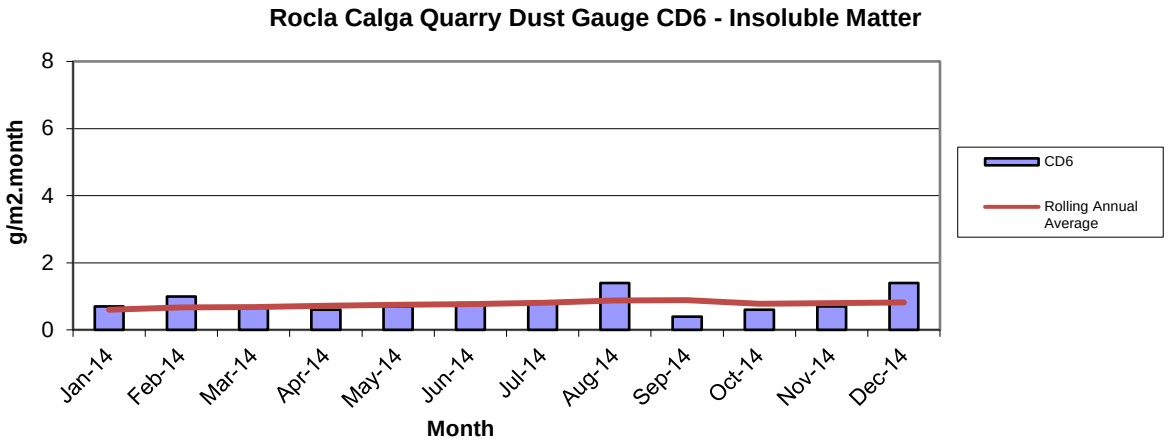
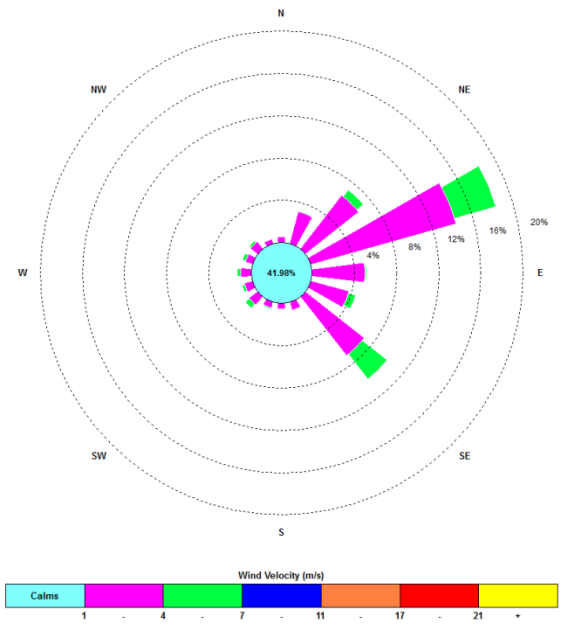


Table A2-6
2014 Rainfall Records – Calga Sand Quarry

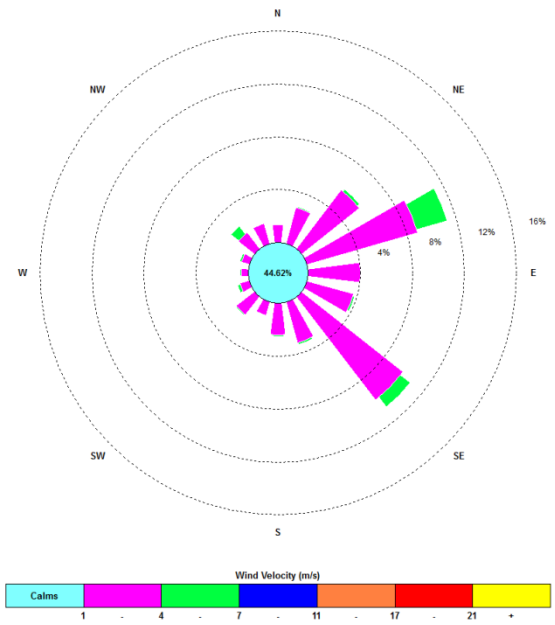
Date	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.2	0.0	9.2	0.2	-	5.1	0.0	0.0	0.0	0.0	5.1	0.5
2	0.0	0.0	1.6	0.2	-	1.5	0.0	0.0	3.6	0.0	0.0	33.0
3	1.4	0.0	1.8	0.2	0.0	0.0	0.0	0.0	0.8	0.0	0.0	8.1
4	0.0	5.0	2.4	8.0	2.8	7.6	0.0	0.0	1.5	0.0	0.0	22.3
5	0.0	0.0	0.6	0.2	0.0	18.0	0.0	0.0	5.3	0.0	21.3	3.3
6	0.2	0.0	0.0	15.8	0.0	12.4	0.0	0.0	44.4	0.0	0.0	3.0
7	2.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	6.1	0.0	0.0	5.6
8	1.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.5	0.5	0.0	3.8
9	0.0	0.2	0.0	0.0	6.3	32.5	0.0	0.3	0.0	0.0	0.0	0.0
10	0.0	0.2	0.0	0.2	0.3	5.1	0.0	0.0	6.1	0.0	0.0	7.4
11	0.0	2.0	0.0	5.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2
12	0.0	0.0	4.4	0.4	9.9	0.3	0.3	3.3	0.0	0.0	0.3	3.8
13	0.0	8.4	45.2	0.0	6.1	0.0	0.3	3.3	1.3	16.3	0.0	0.5
14	0.0	0.4	0.2	4.0	0.3	6.6	0.0	0.0	0.0	22.3	0.0	0.0
15	0.0	3.6	0.0	10.2	0.0	0.8	0.3	0.0	0.0	16.0	0.0	0.0
16	0.0	28.8	7.8	0.2	0.0	0.0	1.0	5.1	0.3	0.0	4.1	0.0
17	0.2	1.4	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0
18	0.2	0.4	0.0	0.2	0.0	0.0	0.0	30.4	0.0	0.0	0.5	0.3
19	0.0	24.2	0.0	0.0	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.3
20	9.8	0.0	2.4	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0
21	3.6	0.0	0.0	0.0	0.0	0.0	0.0	27.7	0.0	0.8	0.0	0.0
22	2.2	0.0	0.2	0.0	0.0	0.0	0.0	15.2	0.0	1.0	0.0	0.0
23	0.8	0.2	0.8	0.0	0.0	0.3	0.3	6.1	0.0	0.0	0.5	4.0
24	6.2	0.0	19.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	3.3	0.0
25	0.4	0.2	0.2	0.2	0.3	0.0	0.0	0.3	0.3	0.3	2.0	28.2
26	1.0	1.4	1.4	0.0	0.3	0.0	21.1	18.2	0.0	0.3	0.0	0.3
27	0.0	3.6	9.4	1.8	0.0	0.0	0.0	17.5	0.0	0.0	3.6	0.0
28	0.0	26.6	18.0	2.0	0.0	0.3	0.0	27.7	0.0	0.0	0.0	0.0
29	0.0		3.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0
30	0.0		17.4	3.2	1.3	0.0	0.0	4.3	0.0	0.0	7.8	0.0
31	0.0		0.2		0.5		0.0	0.3		0.0		0.0
Total Monthly	**29.6**	**106.6**	**145.8**	**53.4**	**31.1**	**90.8**	**23.3**	**202.7**	**70.2**	**57.5**	**48.5**	**139.6**

Source: Carbon Based Environmental Pty Limited

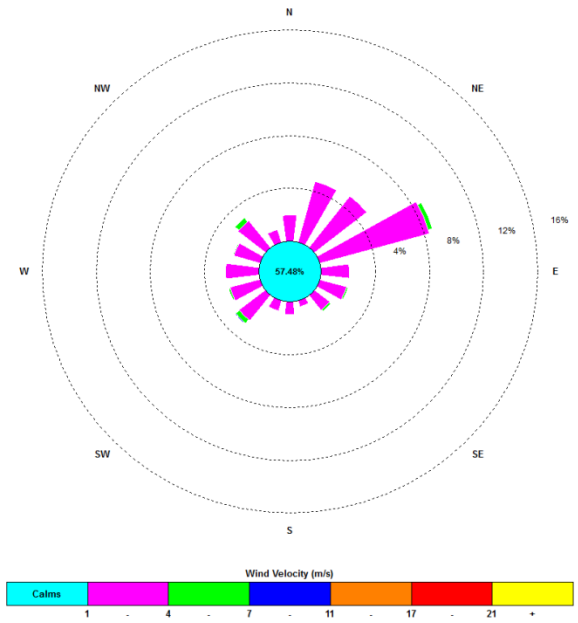
Figure A2-11
2014 Wind Records



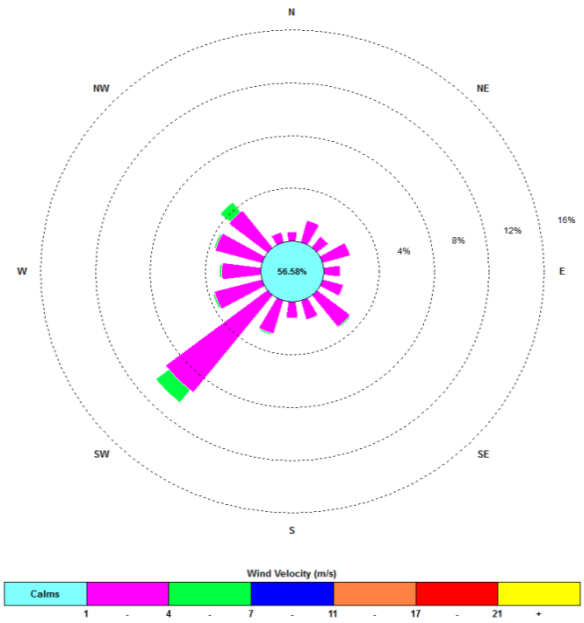
January 2014



February 2014

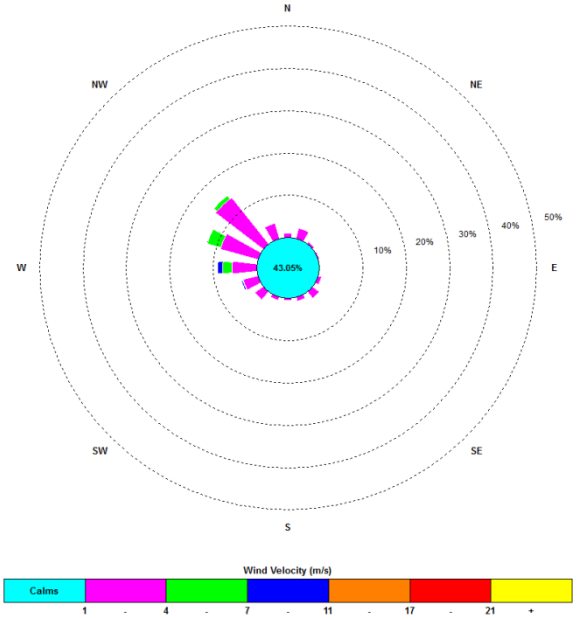


March 2014

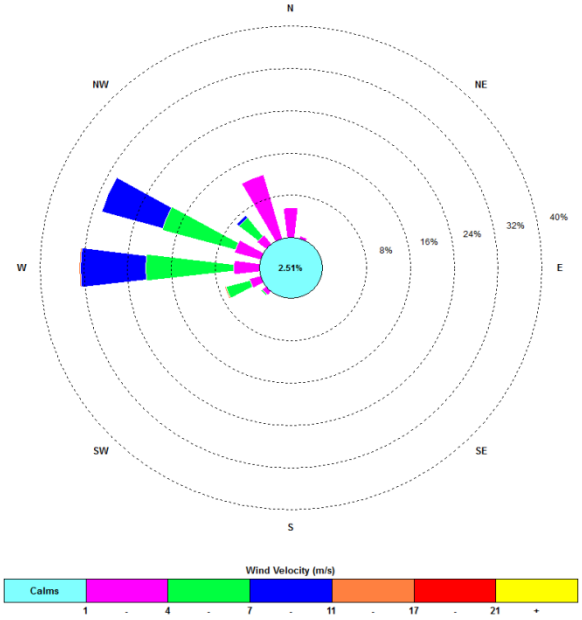


April 2014

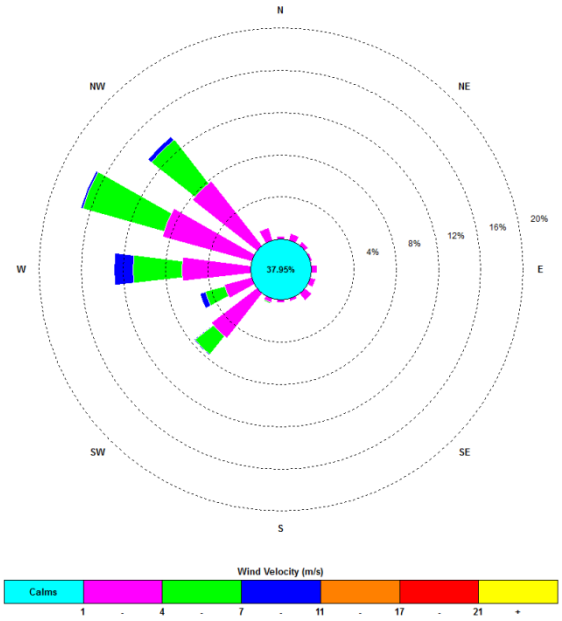
Figure A2-11 (Cont'd)
2014 Wind Records



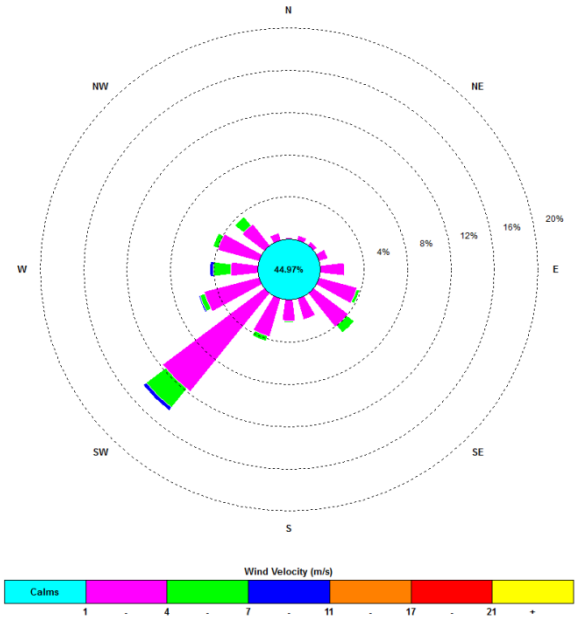
May 2014



June 2014

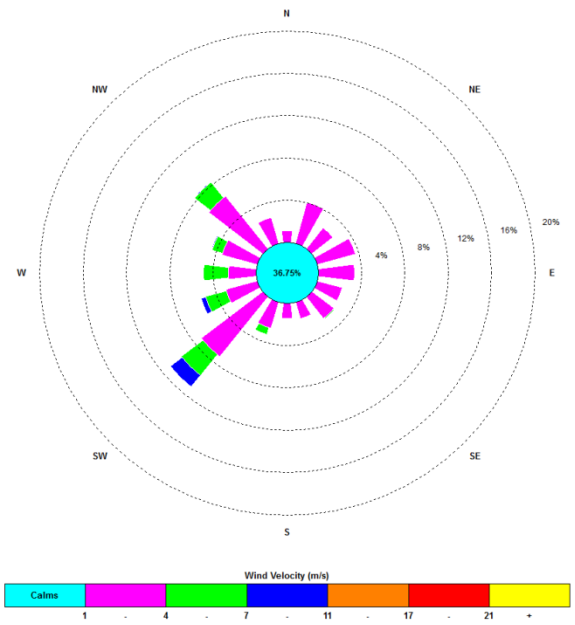


July 2014

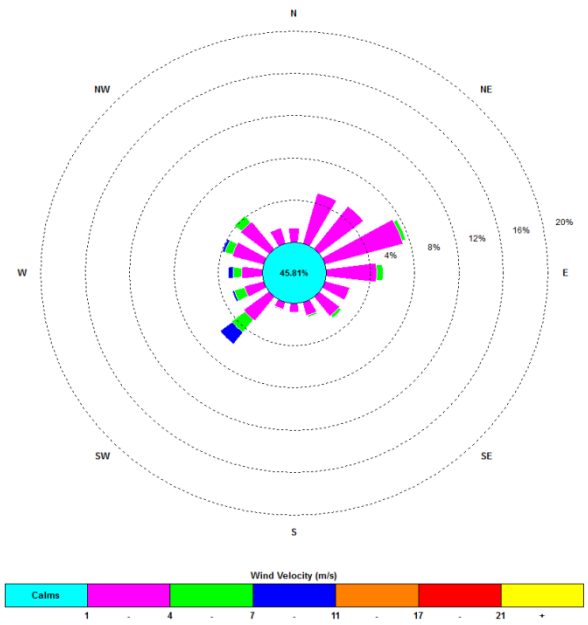


August 2014

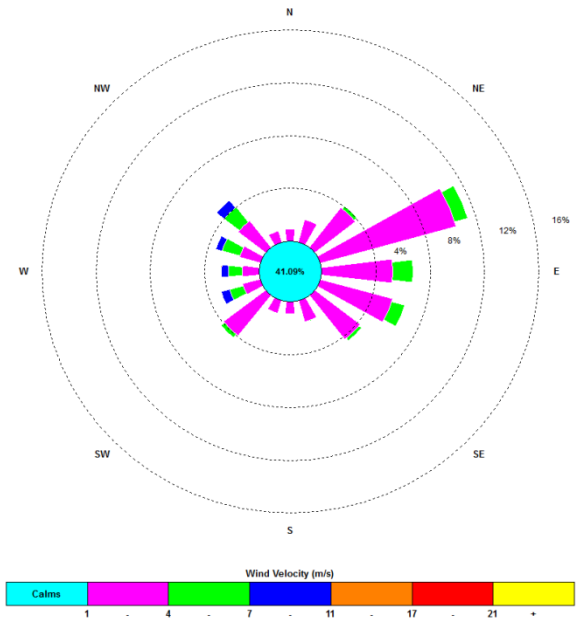
Figure A2-11 (Cont'd)
2014 Wind Records



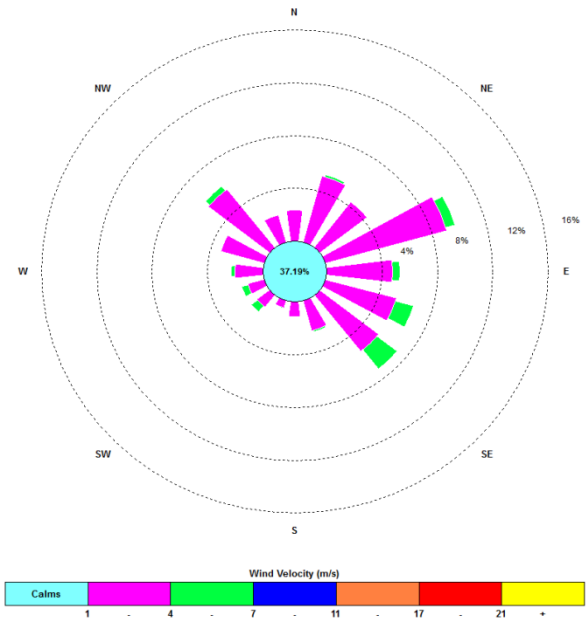
September 2014



October 2014



November 2014



December 2014