

Narrabri Mine Community Consultative Committee Meeting #25

Environmental Monitoring Report March 2014 – May 2014

Noise Monitoring

Attended noise monitoring was undertaken between Monday 17th March and Wednesday 19th March 2014 (Tables 1-12) and on Tuesday 6th May 2014 (Tables 13-16) to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

Table 1: NCM Operational Noise Monitoring Results – 17 March 2014 (day)					
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
N1 Bow Hills	2:33 pm	40	2.4/167	n/a	Wind (36), birds (35), traffic (34), NCM faintly audible
N3 Naroo	2:37 pm	41	2.4/167	n/a	Traffic (38), birds (37), NCM inaudible
N5 Oakleigh	4:20 pm	34	2.6/325	n/a	Traffic (31), wind (27), NCM (27)
N6 Newhaven	4:21 pm	45	2.6/325	n/a	NCM (27)*, birds (33)
N7 Merriman	12:48 pm	35	2.1/180	n/a	Birds & insects (33), traffic (26), wind (26) NCM inaudible

*Noise from vent fan and drill rig

Table 2: NCM Operational Noise Monitoring Results – 17 March 2014 (evening)					
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Temp Grad (°C/100m) ¹	Identified Noise Sources
N1 Bow Hills	9:26 pm	48	2.4/176	9.2/100	Traffic (48), NCM (35), insects (33)
N3 Naroo	8:33 pm	38	2.7/223	6.4/100	Traffic (38), NCM (20)
N5 Oakleigh	9:15 pm	23	1.4/177	9.0/100	Traffic (23), NCM faintly audible
N6 Newhaven	8:01pm	52	2.0/224	4.2/100	NCM (34)*
N7 Merriman	8:48 pm	43	2.5/211	7.2/100	Insects (40), traffic (40), NCM inaudible

*Noise from vent fan and drill rig

Table 3: NCM Operational Noise Monitoring Results – 17/18 March 2014 (night)					
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
N1 Bow Hills	12:35 am	40	2.1/112	6.8/100	NCM (38), traffic (34), insects (26)
N3 Naroo	10:01 pm	38	3.7/178	6.3/100	Traffic (38), insects (25), NCM inaudible
N5 Oakleigh	11:14 pm	24	3.1/167	6.4/100	Traffic (23), insects (19), NCM inaudible
N6 Newhaven	10:13 pm	56	3.7/178	5.3/100	NCM (38)*
N7 Merriman	11:27 pm	40	3.1/164	6.4/100	Traffic (39), NCM (32), insects (29)

*Noise from vent fan and drill rig

Table 4: NCM Operational Noise Monitoring Results – 18 March 2014 (day)

Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
N1 Bow Hills	10:32 am	40	1.4/280	n/a	Traffic (40), birds (26), NCM (25)
N3 Naroo	8:02 am	40	3.7/145	n/a	Traffic (39), birds (30), NCM inaudible
N4 Greylands	10:01 am	34	2.8/135	n/a	Wind (32), traffic (30)
N5 Oakleigh	9:45 am	31	1.8/192	n/a	Traffic (29), NCM (23), birds (21)
N6 Newhaven	8:45 am	52	3.0/140	n/a	NCM (34)*, birds (30)
N7 Merriman	4:27 pm	37	4.1/148	n/a	Wind (35), traffic (30), birds (30), NCM inaudible

*Noise from vent fan and drill rig

Table 5: NCM Operational Noise Monitoring Results – 18 March 2014 (evening)

Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
N1 Bow Hills	9:13 pm	39	3.8/146	1.3/100	Traffic (38), NCM (29), insects (29)
N3 Naroo	8:22 pm	40	3.2/152	4.9/100	Traffic (38), insects (35), NCM inaudible
N4 Greylands	8:15 pm	37	3.0/153	5.0/100	Traffic (34), NCM (31), insects (29)
N5 Oakleigh	9:06 pm	31	3.3/146	1.3/100	Traffic (31), insects (19), NCM inaudible
N6 Newhaven	7:37 pm	49	3.3/157	3.9/100	NCM (31)*, insects (28)
N7 Merriman	8:39 pm	38	3.2/152	4.2/100	Traffic (35), NCM (33), insects 29

*Noise from vent fan and drill rig

Table 6: NCM Operational Noise Monitoring Results – 18/19 March 2014 (night)

Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
N1 Bow Hills	12:40 am	37	3.4/147	6.5/100	Traffic (35), NCM (30), insects (25)
N3 Naroo	10:00 pm	37	3.2/146	1.8/100	Traffic (35), insects (31), NCM inaudible
N4 Greylands	11:07 pm	35	3.0/150	3.4/100	NCM (35), insects (25)
N5 Oakleigh	11:15 pm	25	3.0/140	4.7/100	Traffic (24), insects (18), NCM inaudible
N6 Newhaven	10:00 pm	50	3.2/146	1.8/100	NCM (32)*, insects (28)
N7 Merriman	11:33 pm	39	3.1/139	5.5/100	Traffic (38), NCM (30), insects 25

*Noise from vent fan and drill rig

Table 7: NCM Operational Noise Monitoring Results – 19 March 2014 (day)

Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
N1 Bow Hills	12:40 pm	43	2.3/117	n/a	Traffic (41), birds (35), wind (35), NCM faintly audible
N3 Naroo	7:58 am	43	4.6/147	n/a	Traffic (41), birds (39), NCM inaudible
N5 Oakleigh	9:44 am	38	4.2/156	n/a	Birds (35), traffic (32), wind (30), NCM (24)
N6 Newhaven	7:56 am	48	4.6/147	n/a	NCM (30)*, birds (33)
N7 Merriman	9:38 am	37	4.2/156	n/a	Birds (32), traffic (31), wind (31), NCM (27)

*Noise from vent fan and drill rig

Table 8: NCM Operational Noise Monitoring Results – 19 March 2014 (evening)					
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
N1 Bow Hills	9:03 pm	34	2.4/111	0.2/100	Traffic (32), NCM (26), birds & insects (25)
N3 Naroo	7:30 pm	49	4.1/85	Lapse	Traffic (46), wind (46), insects (30), NCM inaudible
N5 Oakleigh	8:39 pm	30	2.4/125	0.0	Traffic (29), NCM (20)
N6 Newhaven	7:44 pm	54	4.5/73	Lapse	NCM (36)*
N7 Merriman	8:26 pm	46	2.4/125	Lapse	Wind (46), traffic (35), NCM inaudible

*Noise from vent fan and drill rig

Table 9: NCM Operational Noise Monitoring Results – 19/20 March 2014 (night)					
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
N1 Bow Hills	12:17 am	26	2.5/104	1.4/100	Insects (24), traffic (20) NCM faintly audible
N3 Naroo	10:00 pm	41	3.3/96	2.0/100	Traffic (41), insects (28), NCM inaudible
N5 Oakleigh	11:33 pm	35	2.5/113	1.0/100	Traffic (35), insects (25), NCM inaudible
N6 Newhaven	10:00 pm	54	3.3/96	2.0/100	NCM (36)*, insects (27)
N7 Merriman	11:10 pm	38	3/116	0.9/100	Insects (36), traffic (29), wind (29), NCM inaudible

*Noise from vent fan and drill rig

Table 10: NCM Sleep Disturbance Monitoring Results – 17/18 March 2014 (night)				
Location	Time	dB(A),L1 (1 min)	Wind speed / direction	Temp Grad(°C/100m)
N1 Bow Hills	12:35 am	47	2.1/112	6.8/100
N3 Naroo	10:1 pm	n/a	3.7/176	6.3/100
N5 Oakleigh	11:14 pm	n/a	3.1/167	6.4/100
N6 Newhaven	10:13 pm	n/a	3.7/178	5.3/100
N7 Merriman	11:27 pm	35	3.1/164	6.4/100

Table 11: NCM Sleep Disturbance Monitoring Results – 18/19 March 2014 (night)				
Location	Time	dB(A),L1 (1 min)	Wind speed / direction	Temp Grad(°C/100m)
N1 Bow Hills	12:40 am	35	3.4/147	6.5/100
N3 Naroo	10:00 pm	n/a	3.2/146	1.8/100
N4 Greylands	11:07 pm	40	3/150	3.4/100
N5 Oakleigh	11:15 pm	n/a	3/140	4.7/100
N6 Newhaven	10:00 pm	n/a	3.2/146	1.8/100
N7 Merriman	11:33 pm	36	3.1/139	5.5/100

Table 12: NCM Sleep Disturbance Monitoring Results – 19/20 March 2014 (night)				
Location	Time	dB(A),L1 (1 min)	Wind speed / direction	Temp Grad(°C/100m)
N1 Bow Hills	12:17 am	25	2.5/104	1.4/100
N3 Naroo	10:00 pm	n/a	3.3/96	2.0/100
N5 Oakleigh	11:33 pm	n/a	2.5/113	1.0/100
N6 Newhaven	10:00 pm	n/a	3.3/96	2.0/100
N7 Merriman	11:10 pm	n/a	3/116	0.9/100

Table 13: NCM Noise Monitoring Results – 6 May 2014 (Day)				
Location	Time	dB(A), L _{eq} (15min)	Wind speed (m/s)/ direction°	Identified Noise Sources
Merriman	2:58 pm	43	3.3 / 126	Birds (41), traffic (36), wind (32), NCM inaudible
Bow Hills	2:31 pm	38	3.4 / 129	Traffic (38), birds (25), NCM faintly audible
Oakleigh	4:31 pm	44	1.6 / 95	Birds (43), traffic (38), NCM inaudible
Naroo	2:08 pm	41	3.2 / 130	Traffic (37), birds (34), wind (34), NCM inaudible
Newhaven	3:30 pm	43	3.4 / 114	NCM (25)*
Greylands	3:55 pm	37	2.0 / 107	Traffic (33), wind (32), birds (29), NCM (26)

*noise from vent fan – see text

Table 14: NCM Noise Monitoring Results – 6 May 2014 (Evening)				
Location	Time	dB(A), L _{eq} (15min)	Wind speed (m/s)/ direction°	Identified Noise Sources
Merriman	8:17 pm	38	0.9 / 176	Traffic (38), insects (23), NCM inaudible
Bow Hills	8:39 pm	36	0.8 / 201	Traffic (36), insects (20), NCM inaudible
Oakleigh	9:20 pm	35	1.0 / 208	Traffic (35) insects (22), NCM inaudible
Naroo	6:58 pm	47	1.4 / 173	Traffic (47), insects (20), NCM inaudible
Newhaven	7:28 pm	42	0.9 / 187	NCM (23)*, drill rig (35), insects (23)
Greylands	7:54 pm	37	1.1 / 176	Traffic (37), insects (21), NCM inaudible

*noise from vent fan – see text

Table 15: NCM Noise Monitoring Results – 6 May 2014 (Night)					
Location	Time	dB(A), L _{eq} (15min)	Wind speed (m/s)/ direction°	Temp Grad (°C/100m)	Identified Noise Sources
Merriman	11:32 pm	38	CALM	+2.1	NCM (36), traffic (34), insects (20)
Bow Hills	11:55 pm	43	0.2 / 101	+4.2	NCM (42), traffic (37), insects (22)
Oakleigh	12:37 am	36	0.9 / 61	+2.9	NCM (35), traffic (28), insects (27)
Naroo	10:22 pm	44	0.9 / 183	+7.7	Traffic (44), insects (23), NCM inaudible
Newhaven	10:51 pm	47	0.3 / 239	+5.8	NCM (29)*, drill rig (35)
Greylands	11:11 pm	40	0.9 / 202	+4.7	NCM (38), traffic (36), insects (23)

*noise from vent fan – see text

Table 16: L1 (1 min) – 6 May 2014 (Night)		
Location	Time	dB(A),L ₁ (1 min)
Merriman	10:44 pm	42
Bow Hills	11:09 pm	48
Oakleigh	12:00 am	44
Naroo	11:36 pm	N/A
Newhaven	10:01 pm	31*
Greylands	10:22 pm	44

*noise from vent fan

Some exceedances were recorded during the March 2014 monitoring (Tables 1-12) however the Narrabri Mine Environment Protection Licence conditions indicate that compliance with noise emission criteria is not applicable under atmospheric conditions where winds speeds are higher than 3m/s or temperature inversions of

1.5 - 4°C/100 metres and a source to receiver wind speed greater than 2 metres/second at 10 metres above ground level or temperature inversions of greater than 4°C/100 metres. The elevated noise levels were, therefore, measured under non-compliant meteorological conditions.

During May 2014 temperature inversion data showed that the noise measurements at Bow Hills and Greylands were made under non-compliant meteorological conditions (i.e. temperature inversions of greater than 4°C/100 metres). It should be noted that the Greylands property is mine owned. In addition, at the Merriman residence the noise was 1 dB(A) above the noise criterion. It is noted that an exceedance of less than 2 dB(A) above a statutory noise limit specified in a licence condition is not considered to be a non-compliance as per the discussion in Section 11.1.3 of the NSW Industrial Noise Policy.

Monitoring was also undertaken at the Ardmona and Matilda residences during March and May 2014. Monitoring confirmed compliance at both properties.

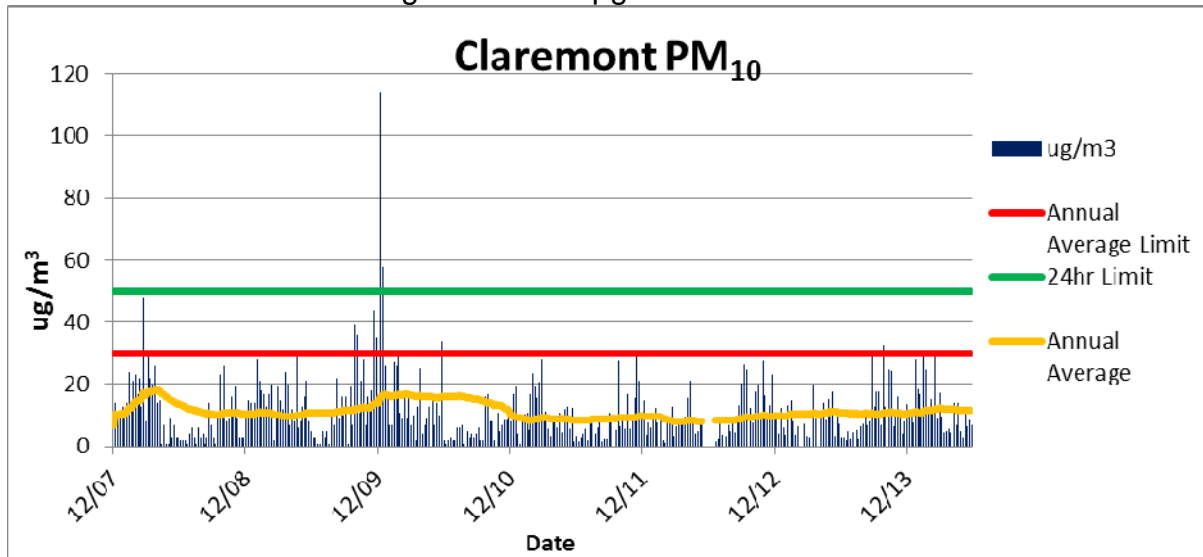
Deposited Dust Monitoring

Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4a New Matoppo	ND5 Claremont	ND6 Willarah	ND7 Claremont	ND8 Claremont	ND11 Oakleigh
Jun-13	2.5	1.1	0.8	0.3	4.8	0.2	0.6	1.0	0.2
Jul-13	2.1	0.5	0.6	0.4	5.7	0.1	0.4	0.2	0.2
Aug-13	0.5	0.9	0.5	0.5	2.4	0.2	0.4	0.5	0.2
Sep-13	0.8	0.8	0.5	1.1	0.7	0.2	1.4	0.2	0.3
Oct-13	0.8	1.7	0.3	0.9	2.7	1.0	3.0	0.4	1.4
Nov-13	0.8	0.9	0.6	0.6	2.5	0.8	2.2	0.7	1.1
Dec-13	0.7	1.2	0.5	0.7	2.0	1.0	1.6	0.5	8.5
Jan-14	0.9	0.4	0.0	0.4	1.0	0.5	0.8	0.3	1.4
Feb-14	0.9	0.5	1.0	0.2	1.4	0.1	1.2	0.3	0.6
Mar-14	0.4	1.7	0.6	<0.1	2.6	1.0	1.0	0.9	0.6
Apr-14	5.8	0.5	0.3	<0.1	1.2	0.4	<0.1	0.4	1.8
May-14	0.8	0.2	1.2	0.4	0.6	<0.1	0.5	0.4	0.8
Annual Average	1.4	0.9	0.6	0.6	2.3	0.5	1.2	0.5	1.4

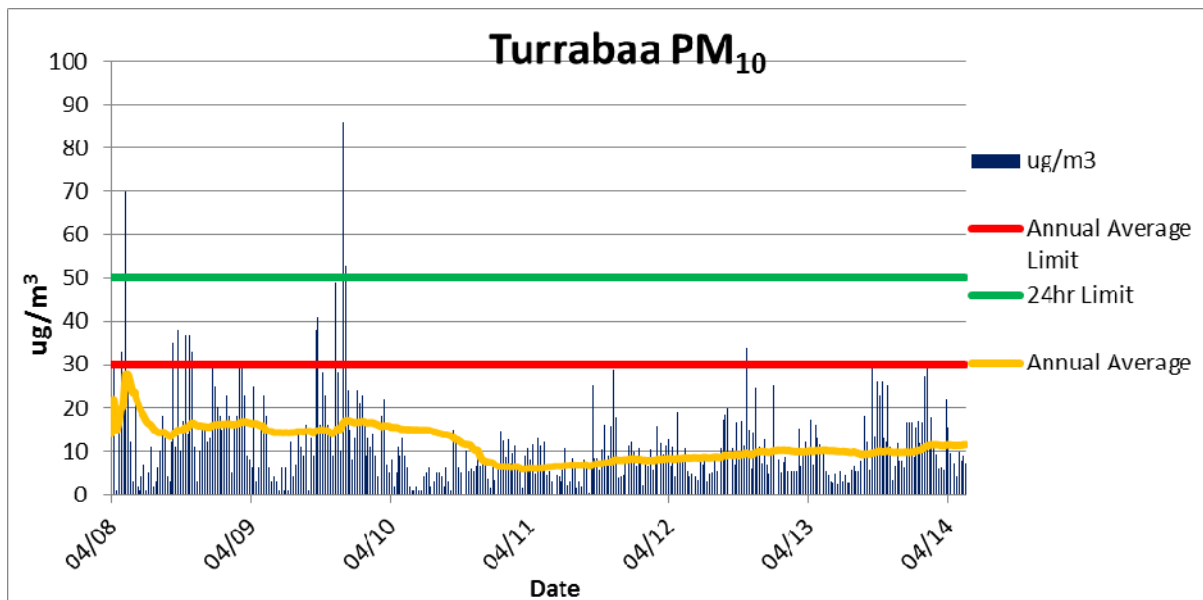
Deposited dust levels have remained at relatively low levels since the last meeting with the exception of ND1 during April 2014. This gauge is located at the Turrabaa residence. The high reading is not considered to be mine related as there is a high volume air sampler nearby and other gauges closer to the operation that did not report high measurements during April 2014. The high result is most likely related to farming activities. All dust deposition annual averages are within compliance limits.

High Volume Air Sampling (PM₁₀)

PM₁₀ measurements taken to the end of May 2014 for the “Claremont” High Volume Air Sampler (HVAS) are returning a running annual average of 11.63 µg/m³ which is well below the annual average limit of 30 µg/m³.



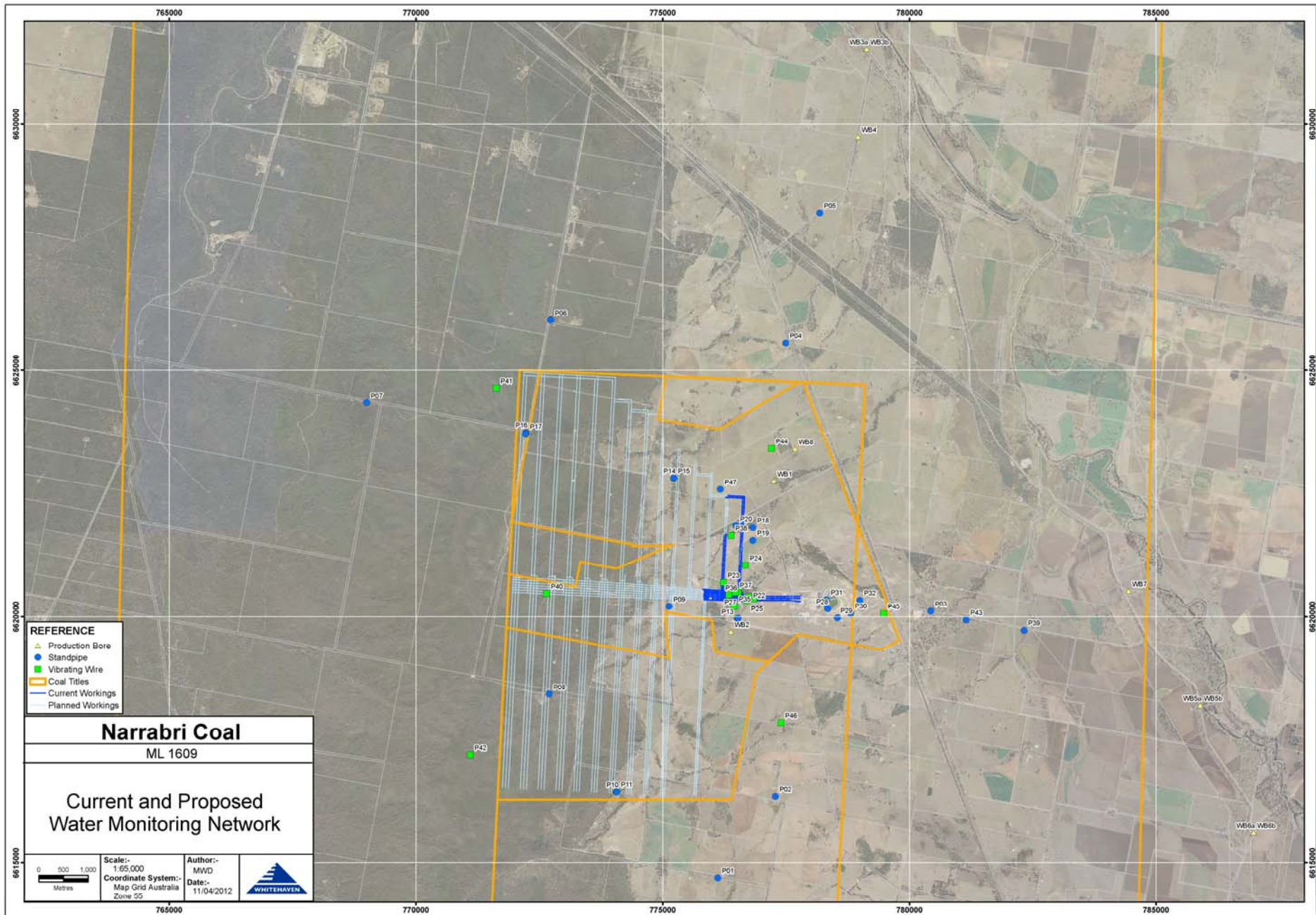
PM₁₀ measurements taken to the end of May 2014 for the “Turrabaa” High Volume Air Sampler are returning a running annual average of 11.50 µg/m³ which is also well below the annual average limit of 30 µg/m³.

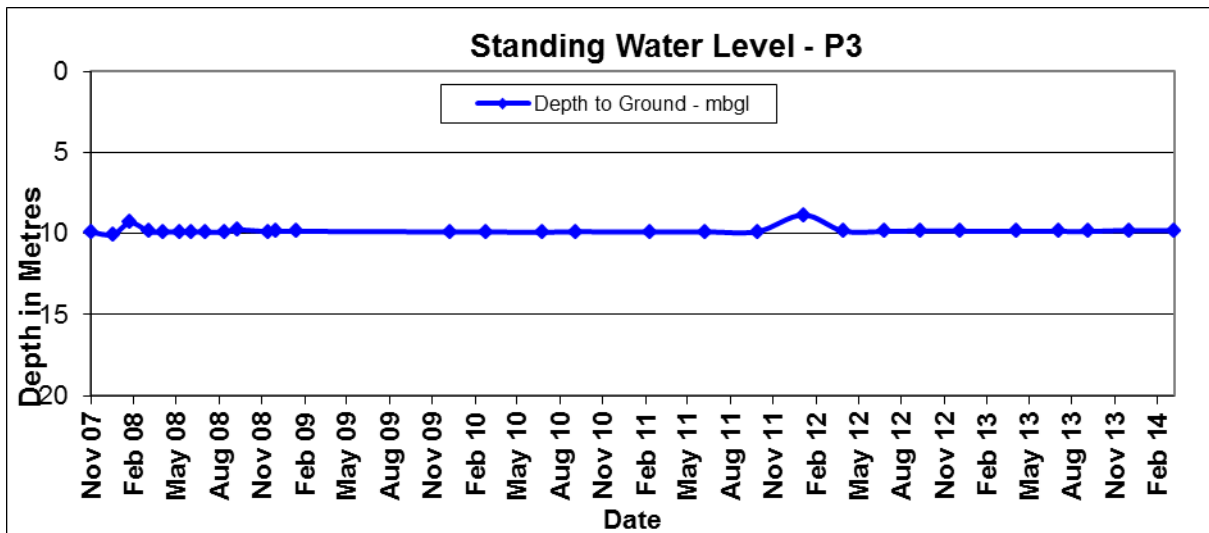
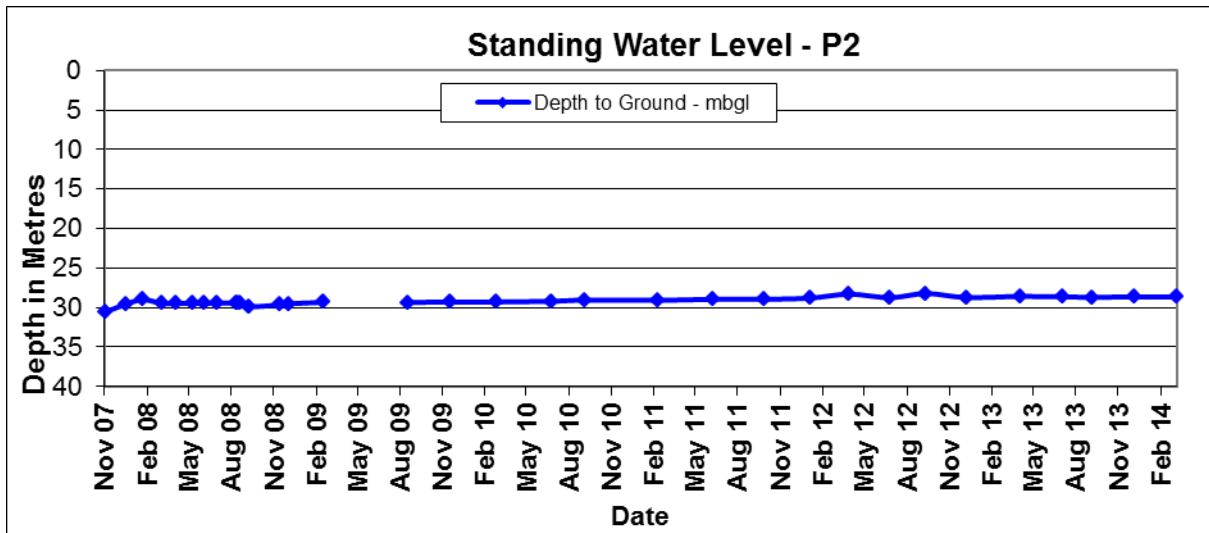
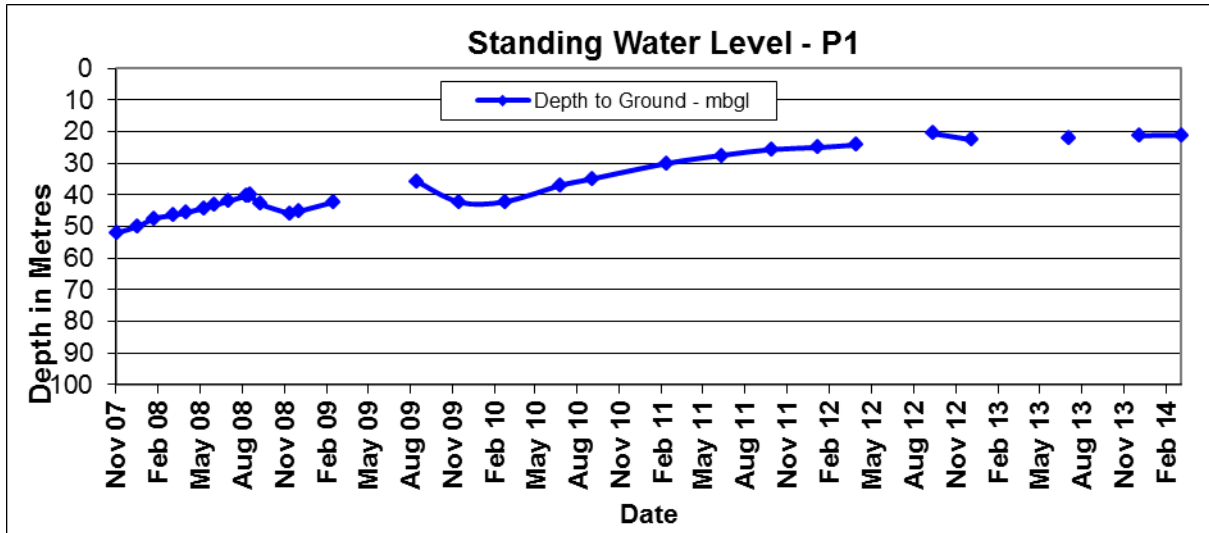


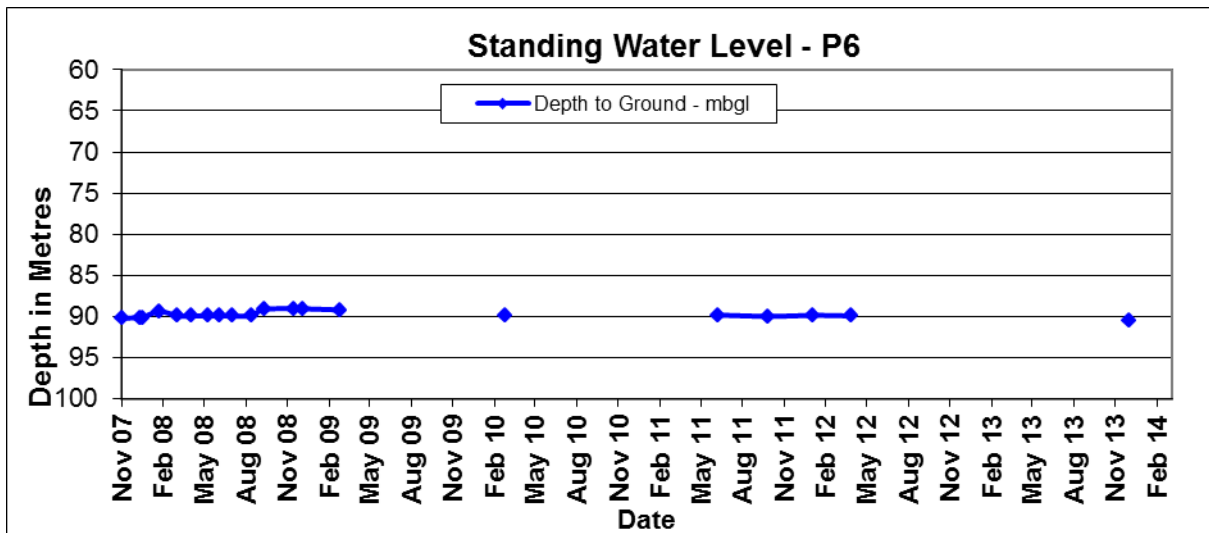
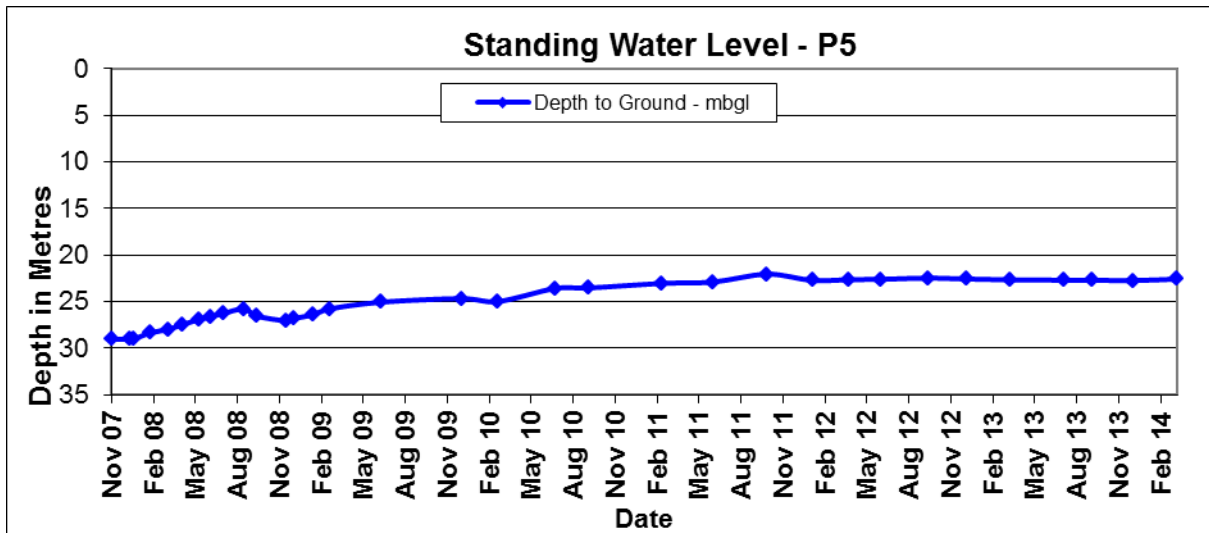
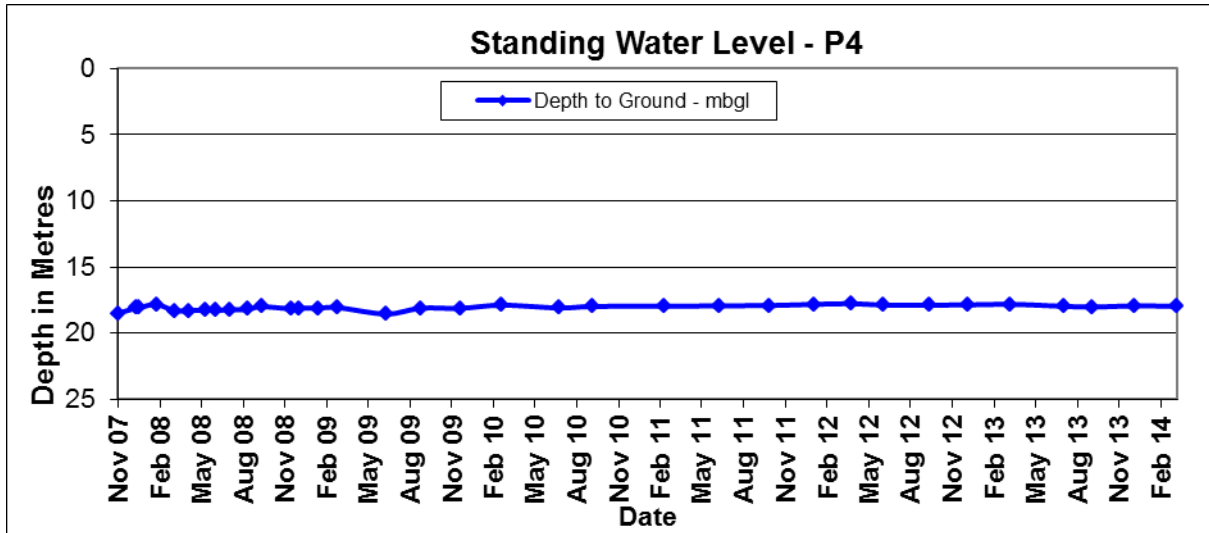
PM₁₀ levels have remained compliant since the last meeting. Annual averages at both sites are displaying a slightly increasing trend likely due to the period of hot, dry weather that occurred mid-late last year.

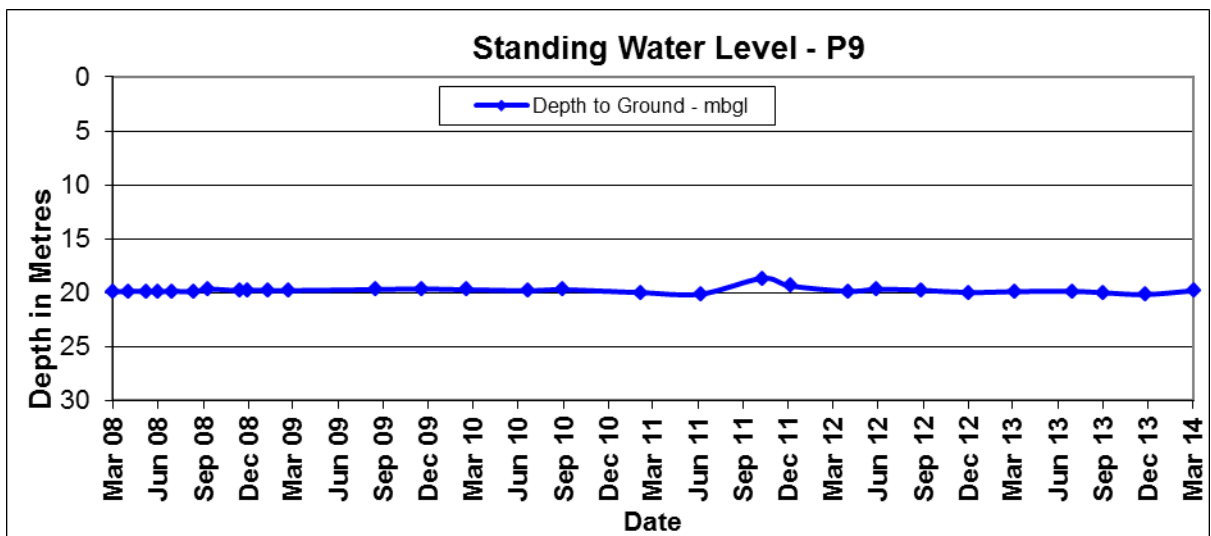
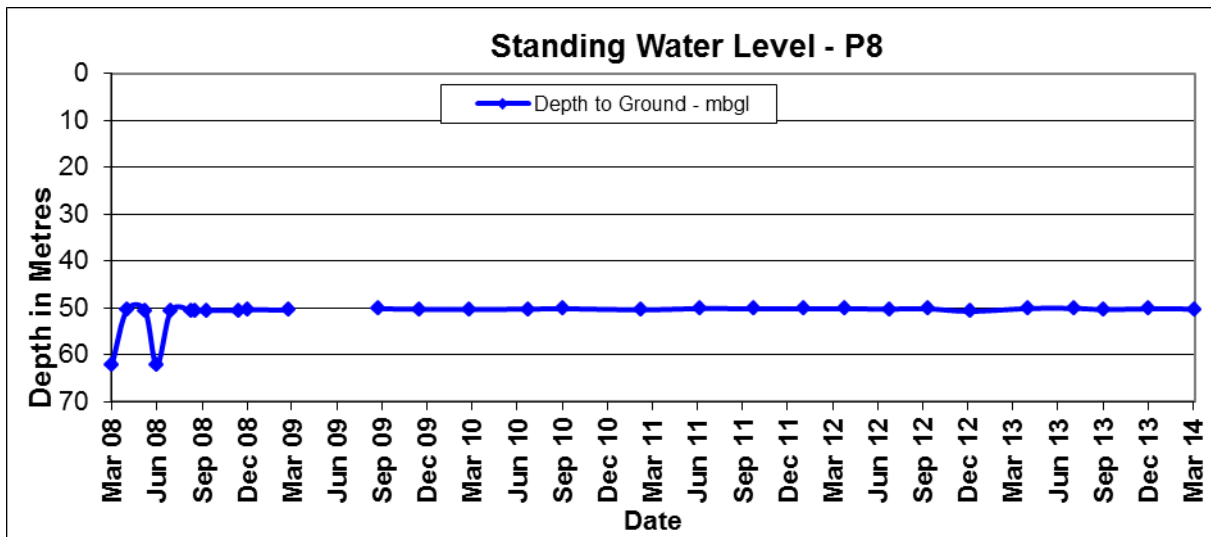
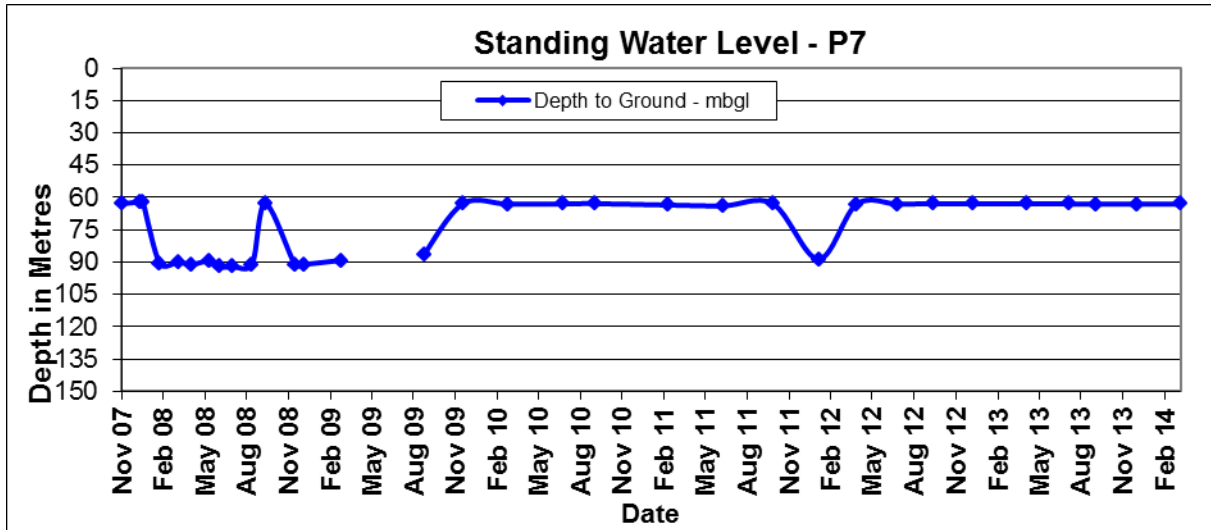
Groundwater Monitoring

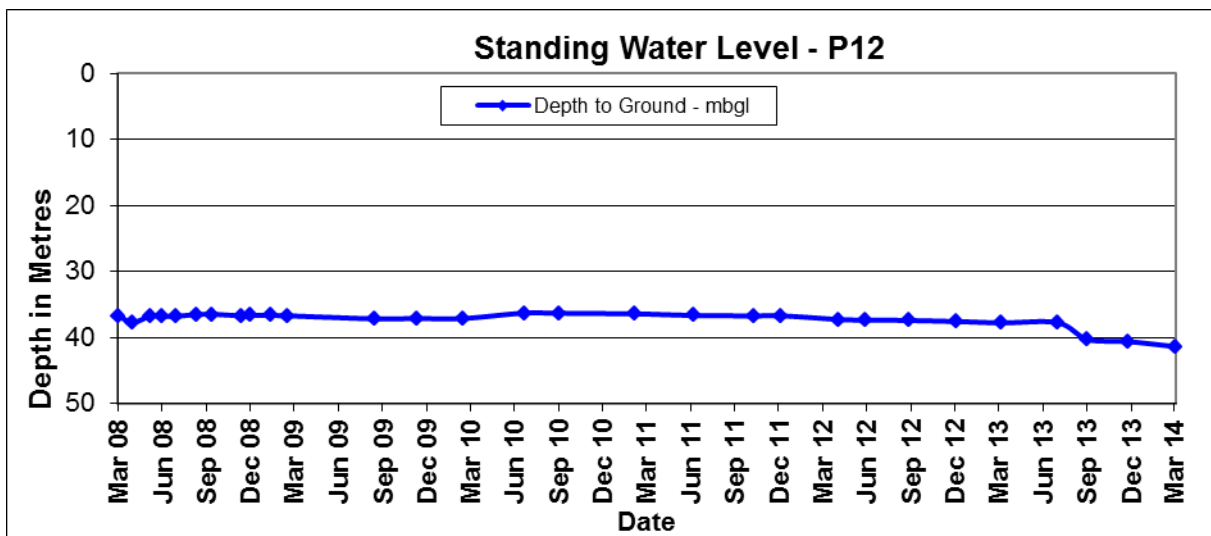
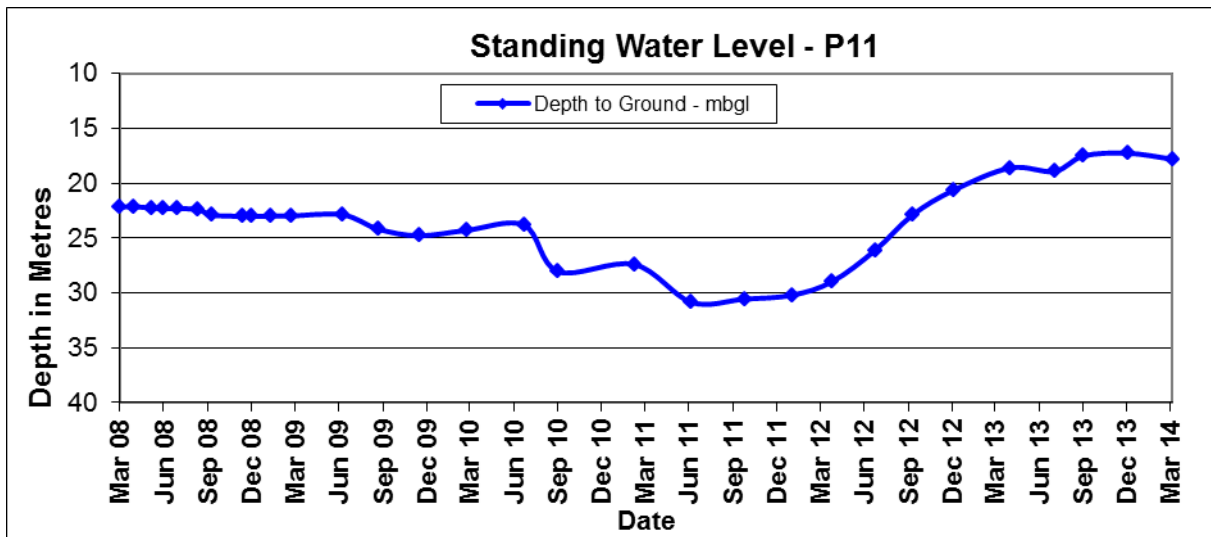
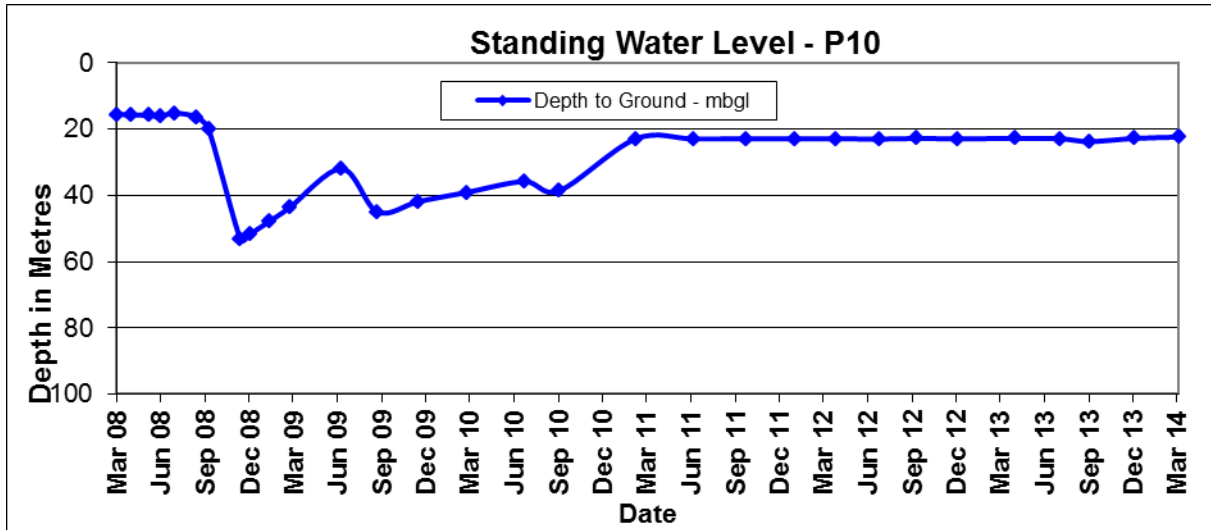
Groundwater monitoring was completed in March 2014. Nested piezometers have been installed on the “Omeo” and “Kurrajong” properties and two sets are also installed on the mine site to monitor the effects of the Longwall operation. Results of these units is included below.

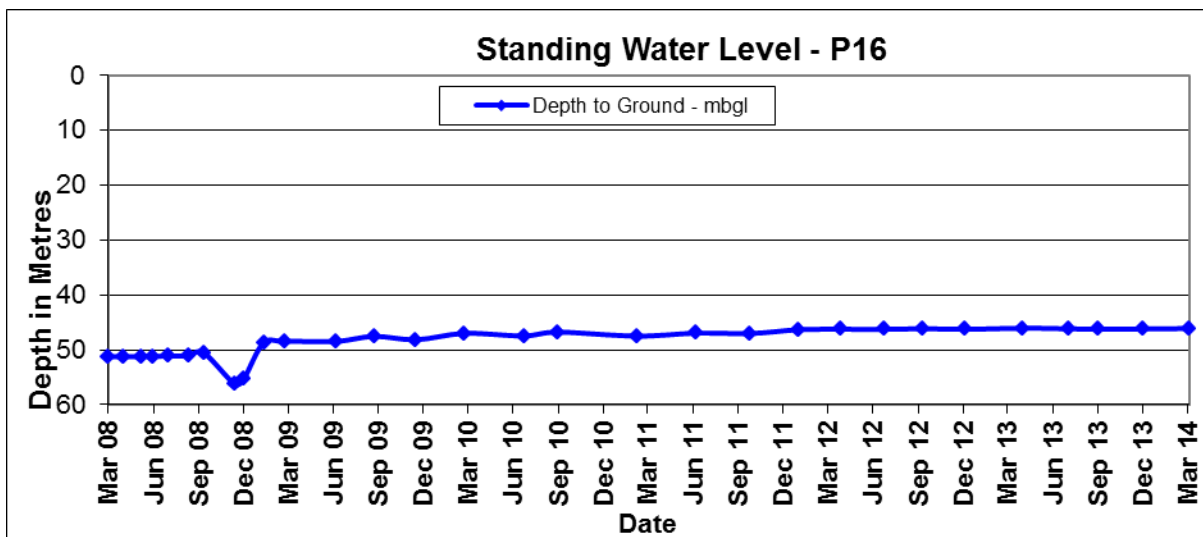
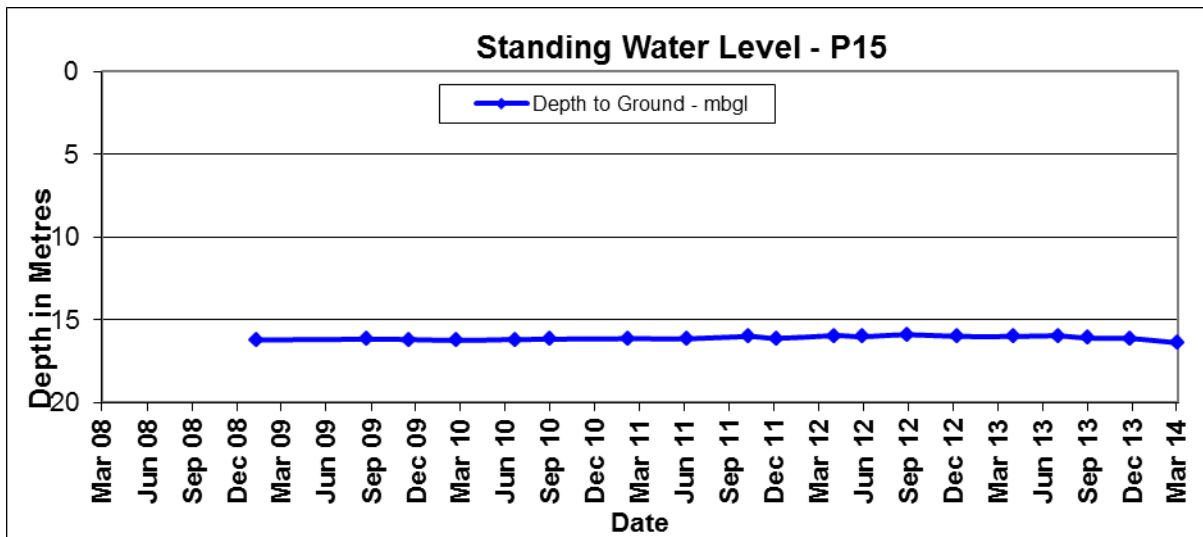
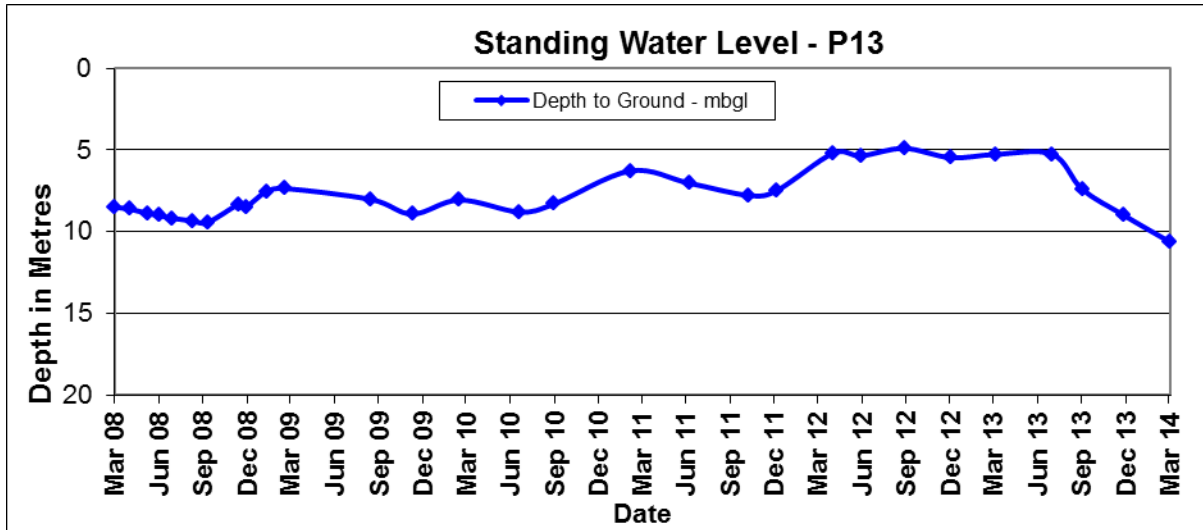


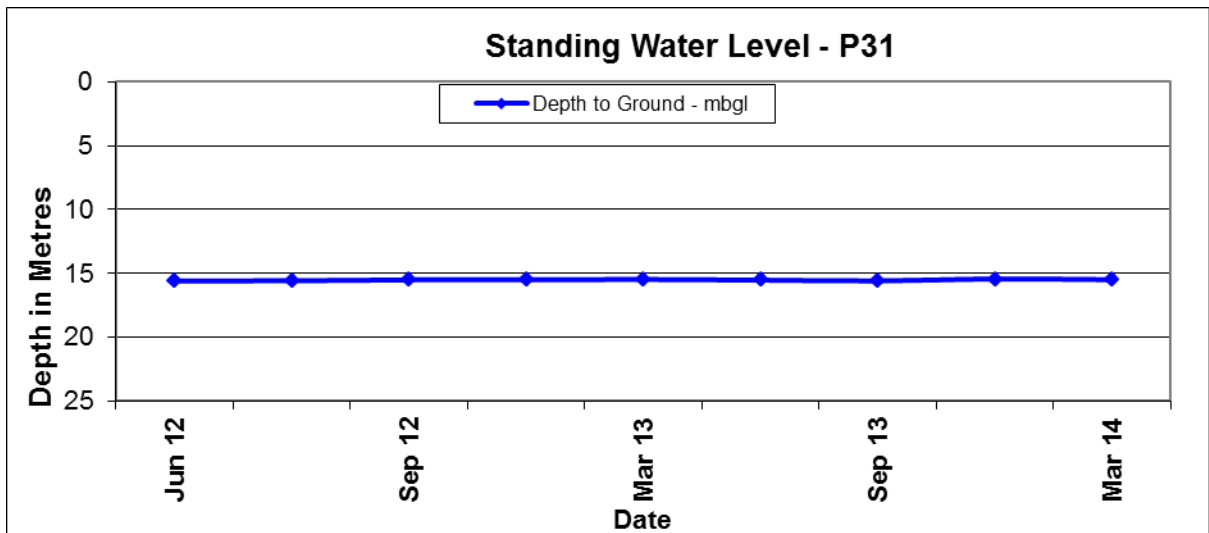
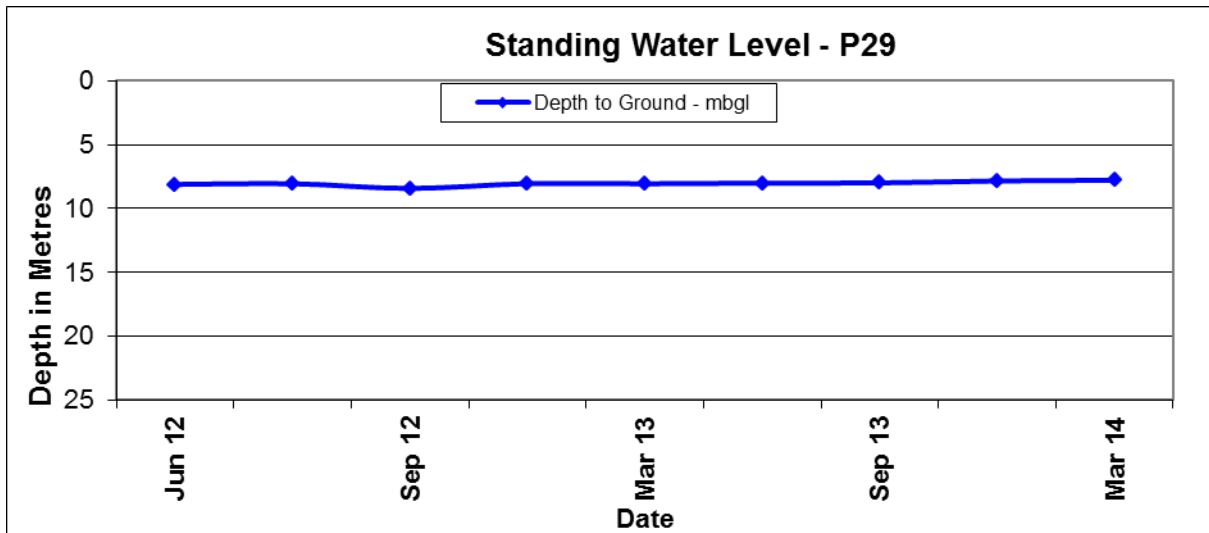
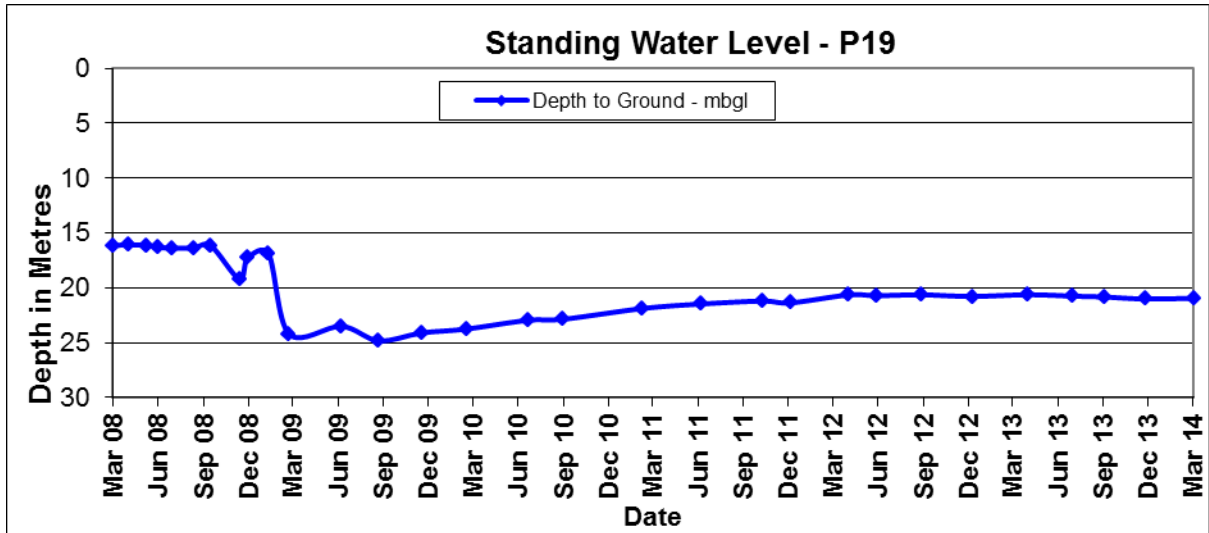


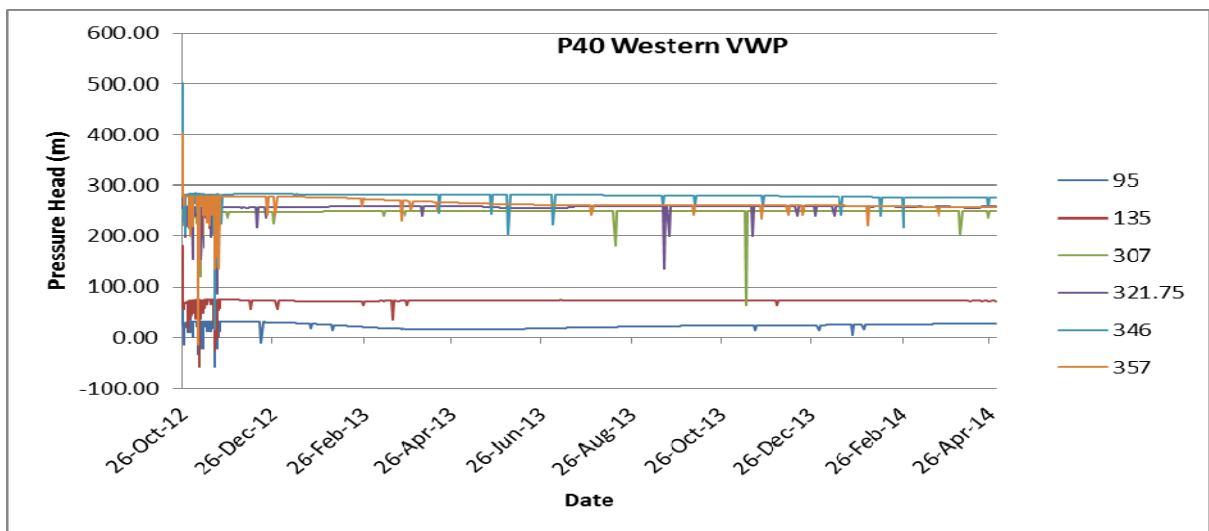
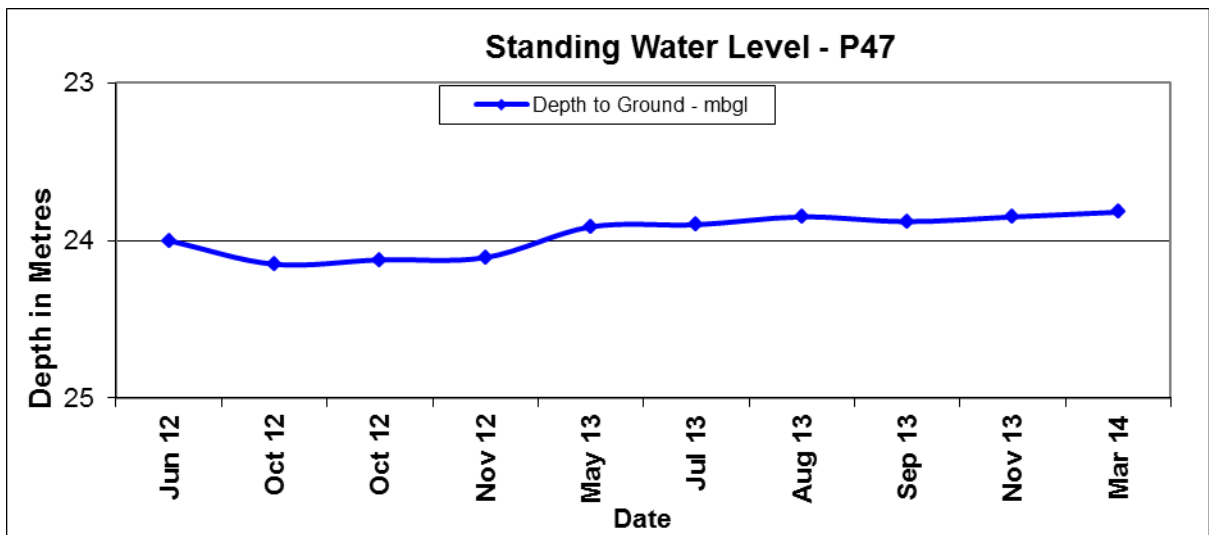
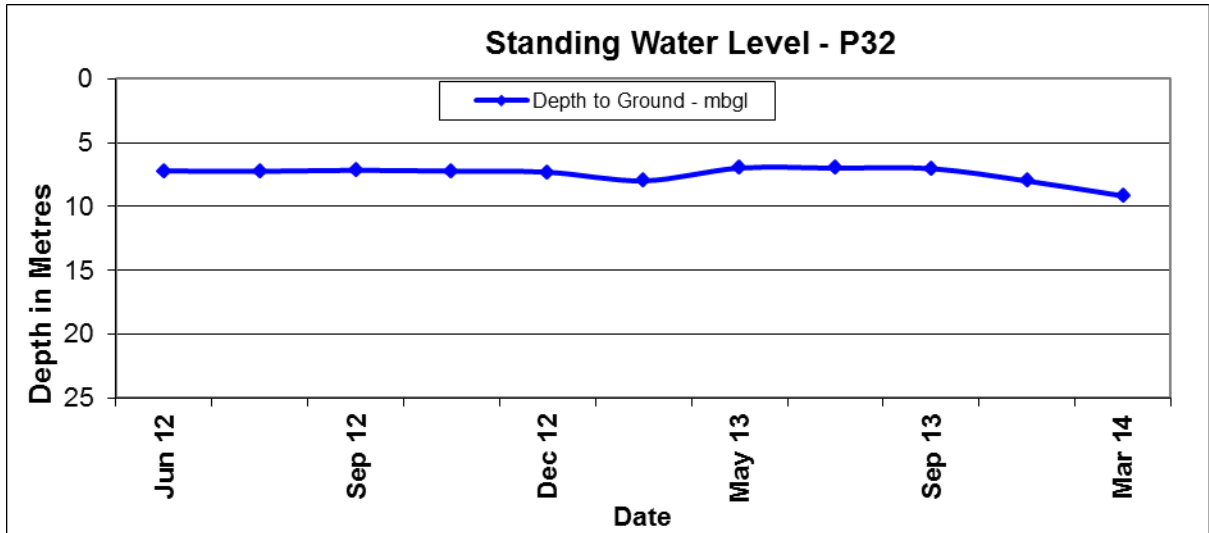


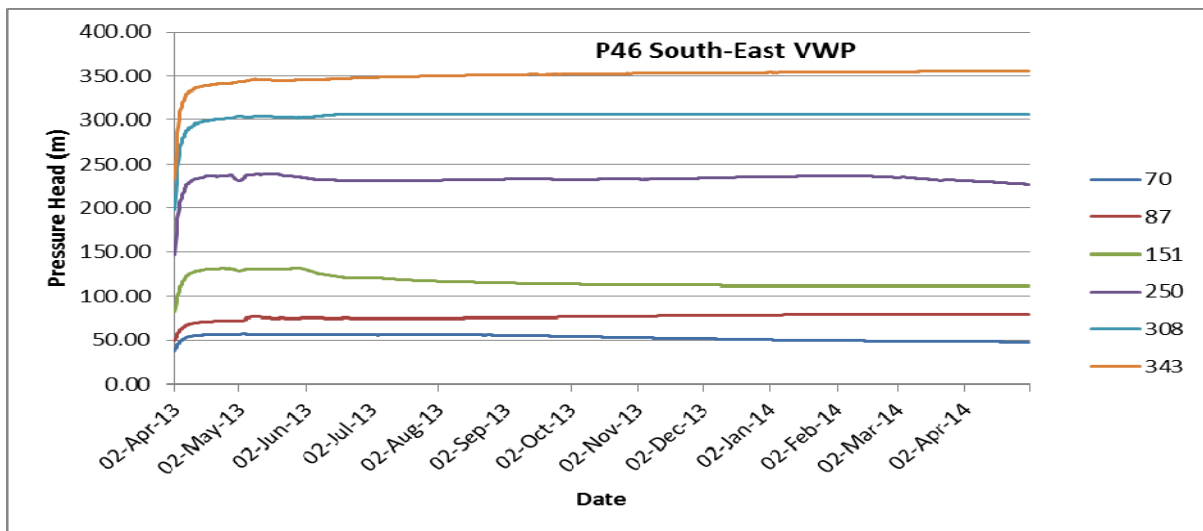
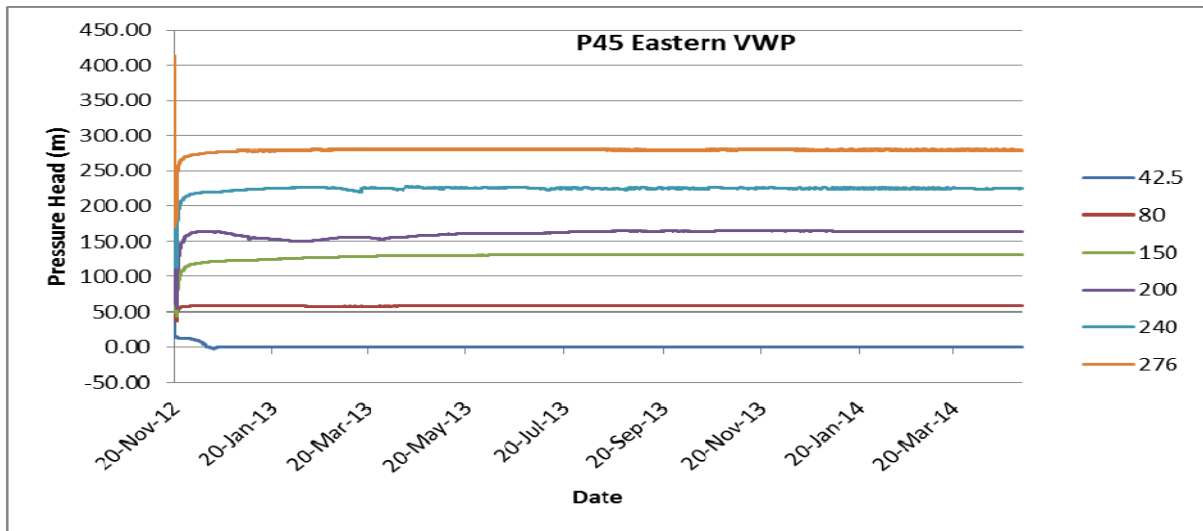
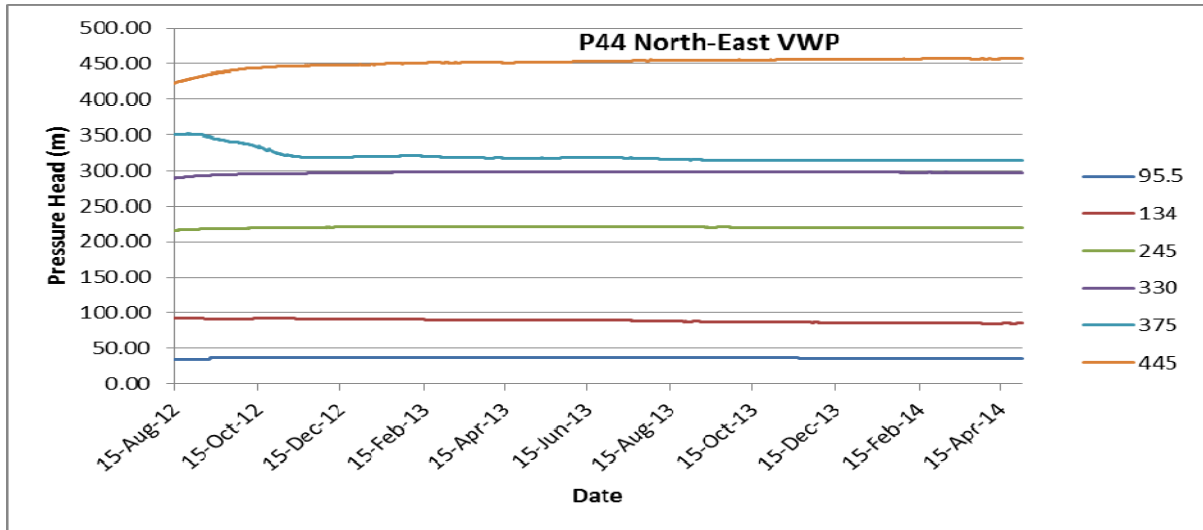












Monitoring well P13 has shown a steady decrease in water levels since September 2013. In the area of P13 pre-drainage of water and gas commenced in February 2011 and was completed during November 2013. It is considered likely that any impacts to the standing water level would have been identified during 2011. Bore P13 is 30 m deep and targets the Garrawilla Volcanics. A production bore, WB2, is

approximately 300 m to the south and targets the same aquifer. Given the extended hot, dry period experienced over the second half of 2013 the drop in water level in P13 is likely associated with increased production from WB2.

Surface Water Monitoring

A wet weather discharge from licensed discharge points occurred during March 2014. Narrabri Mine's Environmental Protection Licence (EPL) outlines the limits for the following water quality parameters: Oil and Grease – 10mg/L; pH – 6.5-8.5; and Total Suspended Solids – 50mg/L (no limits are set for Total Organic Carbon (TOC) or Electrical Conductivity (EC)). The table below shows compliance with these parameters.

Table 1: Discharge Water Quality – 28th March 2014

Site	Date	pH	EC (us/cm)	TSS (mg/L)	TOC (mg/L)	Oil/Grease (mg/L)
SD2	28/03/2014	7.21	103	26	12	<5
SD5	28/03/2014	7.06	72	18	10	<5

Flows were also monitored in surrounding creek points on the 21st, 25th, 26th and 27th March 2014.

Subsidence

Narrabri Mine has monitored the subsidence movement across the surface of LW101 to LW103 in accordance with the approved Extraction Plan. The table below outlines the maximum subsidence parameters recorded as part of the subsidence monitoring program and a comparison with the maximum predicted subsidence parameters as outlined in the Extraction Plan. Monitoring has been undertaken on the 11kv power line that traverses the southern end of LW101 to LW103.

LW101, LW102 and Part of LW103		
	Maximum Predicted Extraction Plan	Maximum Measured
Line 101 – Centre of LW101		
Subsidence (m)	2.44	2.628
Tilt (mm/m)	47	29.1 – 46.3
Tensile Strain (mm/m)	11 – 22 [^]	8.7 – 20.7
Compressive Strain (mm/m)	14 – 28 [^]	7.5 – 26.6
Angle of Draw (°, Degrees)	22.5 – 26.5	20.2
Line 102 – Centre of LW102		
Subsidence (m)	2.44	2.665
Tilt (mm/m)	41	43.7
Tensile Strain (mm/m)	10 – 20 [^]	20.5
Compressive Strain (mm/m)	12 – 24 [^]	46.7
Angle of Draw (°, Degrees)	22.5 – 26.5	20.8
Line 103 North – Centre of LW103 Northern End		
Subsidence (m)	2.44	2.589 [*]

LW101, LW102 and Part of LW103		
Tilt (mm/m)	35	40.2*
Tensile Strain (mm/m)	8 – 16^	18.8*
Compressive Strain (mm/m)	10 – 20^	16.2*
Angle of Draw (°, Degrees)	22.5 – 26.5	18.1*
Line A – Cross Panel Survey Line		
Subsidence (m)	2.44	2.558*
Tilt (mm/m)	47	56.3*
Tensile Strain (mm/m)	11 – 22^	17.1*
Compressive Strain (mm/m)	14 – 28^	26.7*
Angle of Draw (°, Degrees)	22.5 – 26.5	25.7*
Line B – Pine Creek Tributary 1		
Subsidence (m)	2.44	2.557*
Tilt (mm/m)	47	54.8*
Tensile Strain (mm/m)	11 – 22^	13.1*
Compressive Strain (mm/m)	14 – 28^	11.0*
Gradient Change (%)	Up to 6	5.47*
Line E – Pine Creek Tributary 1 Crossline 1		
Subsidence (m)	2.44	0.952*
Tilt (mm/m)	47	26.9*
Tensile Strain (mm/m)	11 – 22^	9.2*
Compressive Strain (mm/m)	14 – 28^	2.9*
Line F – Pine Creek Tributary 1 Crossline 2		
Subsidence (m)	2.44	2.514*
Tilt (mm/m)	41	53.5*
Tensile Strain (mm/m)	10 – 20^	6.6*
Compressive Strain (mm/m)	12 – 24^	11.9*
Line G – Pine Creek Tributary 1 Crossline 3		
Subsidence (m)	2.44	0.089*
Tilt (mm/m)	47	2.8*
Tensile Strain (mm/m)	11 – 22^	1.8*
Compressive Strain (mm/m)	14 – 28^	1.5*
Electricity Transmission Lines – 11kV Power Lines		
<i>Pole 2</i>		
Subsidence (m)	0	0.046
Dynamic Tilt (mm/m)	0	8.38
Final Tilt (mm/m)	0	7.21
Conductor length change between poles 2-3 (m)	0.13	0.56
Conductor Clearance Loss (m)	0.77	+0.20
<i>Pole 3</i>		
Subsidence (m)	2.18	2.085
Dynamic Tilt (mm/m)	30	66.3

LW101, LW102 and Part of LW103		
Final Tilt (mm/m)	12	52.47
Conductor length change between poles 3 - 4 (m)	0.28	-0.81
Conductor Clearance Loss (m)	1.10	0.91
<i>Pole 4</i>		
Subsidence (m)	2.11	2.010
Dynamic Tilt (mm/m)	25	74.22
Final Tilt (mm/m)	15	43.49
Conductor length change between poles 4 - 5 (m)	0.13	0.48
Conductor Clearance Loss (m)	0.07	+0.21
<i>Pole 5</i>		
Subsidence (m)	0.31	0.047
Dynamic Tilt (mm/m)	2	16.32
Final Tilt (mm/m)	2	16.32
Conductor length change between poles 5 - 6 (m)	0.024	-0.12
Conductor Clearance Loss (m)	0.30	0.08
<i>Pole 6</i>		
Subsidence (m)	0.01	0.008
Dynamic Tilt (mm/m)	1	3.5
Final Tilt (mm/m)	1	1.65
Conductor length change between poles 6 - (m)	-	-
Conductor Clearance Loss (m)	-	-

Based on the table above, subsidence prediction exceedances have occurred above LW101, LW102 and LW103:

- The maximum subsidence measurements are within +/- 10% of the predicted value of 2.44 m.
- The maximum tilt measurements are within 15% of the predicted values for the centreline lines of LW101, LW102 and LW103.
- The maximum tensile strain measurements are generally within the predicted range of the values of 11 mm/m (smooth profile) and 22 mm/m (discontinuous or crack affected profiles).
- The maximum compressive strain measurements are generally within the range of the predicted values of 14 mm/m (smooth profile) and 28 mm/m (discontinuous or crack affected profiles) with the exception of LW102 which recorded a maximum compressive strain of 46.7 mm/m.

The centreline subsidence results for LW101, LW102 and LW103 indicate that the Garrawilla Volcanics and Basalt Sill have not reduced subsidence through spanning behaviour. The maximum subsidence is also considered to be closer to 63% of the average mining height of 4.2m when compared to the value of 58% used in the prediction modelling.

However, since the measured subsidence effects were all within 15% of the current predicted maximum values, and surface impacts have not been greater than anticipated, it is not considered necessary to increase the values presented in the Extraction Plan for future longwall panels at this stage.

Complaints

Four formal complaints were received during the period March to May 2014. Two were in relation to noise, one was in relation to a smell and one was in relation to tenants in a house leased by the mine to another person.

The smell complaint was found not to be originating from site as no instances of spontaneous combustion were occurring at the time as this is the main cause of offensive odours at the site. The complaint in relation to the tenants was directed through the WHC community liaison team and the lease holder was notified.

One of the complaints in relation to noise was found to be a temporary ventilation fan operating near the mine boundary. The fan has since been enclosed in a shed to minimise noise impacts and it is scheduled for decommissioning during June 2014. The complainant also noted that black material was present in the water tank and in a water filter at their property. A sample of the tank and filter were sent to a lab for analysis and the results indicated that the tank sample was humic acids from decayed plant material with no coal observed in this sample. The water filter sample reported trace amounts of coal (<1%) with the majority of the material found to be minerals, quartz, clay and plant and insect fragments. Narrabri Mine is not proposing to undertake any further action at this time.

The other noise complaint related to general mine noise during early May 2014. This coincided with cooler than normal conditions and the mine's weather station recording temperature inversion conditions at this time. The complainant was contacted and advised of the weather conditions that may have attributed to the noise levels. Noise monitoring is now undertaken at this residence and the mobile noise unit is also located at the residence indicating compliant noise levels. The CHPP, which generates most of the noise onsite, was notified and a tool box talk was issued to staff outlining what measures can be undertaken to reduce noise generation, particularly during the night/morning period when temperature inversion conditions are more likely.

Environmental Incident(s)

No environmental incidents occurred during the March to May 2014 period.