

Narrabri Coal Project Community Consultative Committee Meeting #7

Environmental Monitoring Report August 2009 – October 2009

Noise Monitoring

Attended noise monitoring was undertaken on the Wednesday 2nd September 2009 to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

Noise Monitoring Results – 2 September 2009 (Day)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Naroo	4:05 pm	44	3.5m/s NNW	Traffic (43), birds (36), NCM inaudible
Claremont*	3:43 pm	35	4.5m/s NNW	Birds (33), farm machinery (30), NCM inaudible
Westhaven	3:07 pm	37	4.5m/s NNW	Drill (35), birds (32), NCM inaudible
Greylands	4:45 pm	37	3.5m/s NNW	Birds (34), traffic (33), drill (26), NCM inaudible
Bow Hills	4: 52 pm	50	3.5m/s NNW	Traffic (50), NCM inaudible

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

Noise Monitoring Results – 2 September 2009 (Evening)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	9:26 pm	61	1.5m/s NW	Traffic (61), NCM (29)
Naroo	9:09 pm	52	1.5m/s NW	Traffic (52), NCM (30)
Claremont*	8:48 pm	31	1.5m/s NW	NCM (30) , insects (25)
Westhaven	8:14 pm	30	1.5m/s NW	Insects (30), NCM faintly audible
Greylands	7:50 pm	34	1.5m/s NW	Insects (33), traffic (26), NCM inaudible

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

Noise Monitoring Results – 2 September 2009 (Night)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	11:30 pm	62	<0.5m/s NW	Traffic (62), insects (30), NCM inaudible
Naroo	11:10 pm	42	<0.5m/s NW	Traffic (42), NCM (25)
Claremont*	10:50 pm	33	<0.5m/s NW	NCM (33)
Westhaven	10:00 pm	29	1m/s NW	NCM (29)
Greylands	10:23 pm	29	1m/s NW	NCM (28) , insects (23)

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

The results indicate that noise emissions from the mine were below the criterion of 35 dB(A),Leq(15min) at all receivers.

Unattended noise monitoring was also undertaken in September 2009, as required under the consent. Noise logs have been provided to Narrabri Coal from the consultant as part of the background noise collation. This data does not distinguish between mine and other noise sources and as such the data is not presented in this report. It is anticipated that following the first 12 months of mining from the project site, the requirement for ongoing unattended noise monitoring will be removed.

Deposited Dust Monitoring

Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarath	ND7 Claremont	ND8 Claremont
December 2008	2.2	1.3	0.8	15.6	1.5	2.3	1.1	0.1
January 2009	3.2	2.3	1.4	27.9	1.9	2.6	0.8	1.6
February 2009	1.8	1.9	0.5	9.4	2.0	13.8	1.0	3.5
March 2009	0.6	13.8	3.1	5.1	35.5	6.6	3.6	3.5
April 2009	1.4	0.6	0.3	33.5	1.4	2.0	1.0	0.1
May 2009	1.1	0.8	7.5	4.1	5.3	2.6	5.8	2.4
June 2009	0.4	0.5	4.0	3.7	4.9	1.5	3.0	2.2
July 2009	0.9	0.4	3.2	0.8	7.9	0.7	1.9	1.6
August 2009	64.4	2.2	6.2	1.5	1.6	2.3	1.5	1.4
September 2009	18.9	20.5	18.1	23.6	12.9	14.3	12.6	19.1
October 2009	8.3	4.2	4.8	2.7	2.7	0.9	2.7	4.1
November 2009	7.0	1.9	1.5	2.2	1.9	1.9	2.8	1.5
Annual Average	9.2	4.2	4.3	10.8	6.6	4.3	3.2	3.3

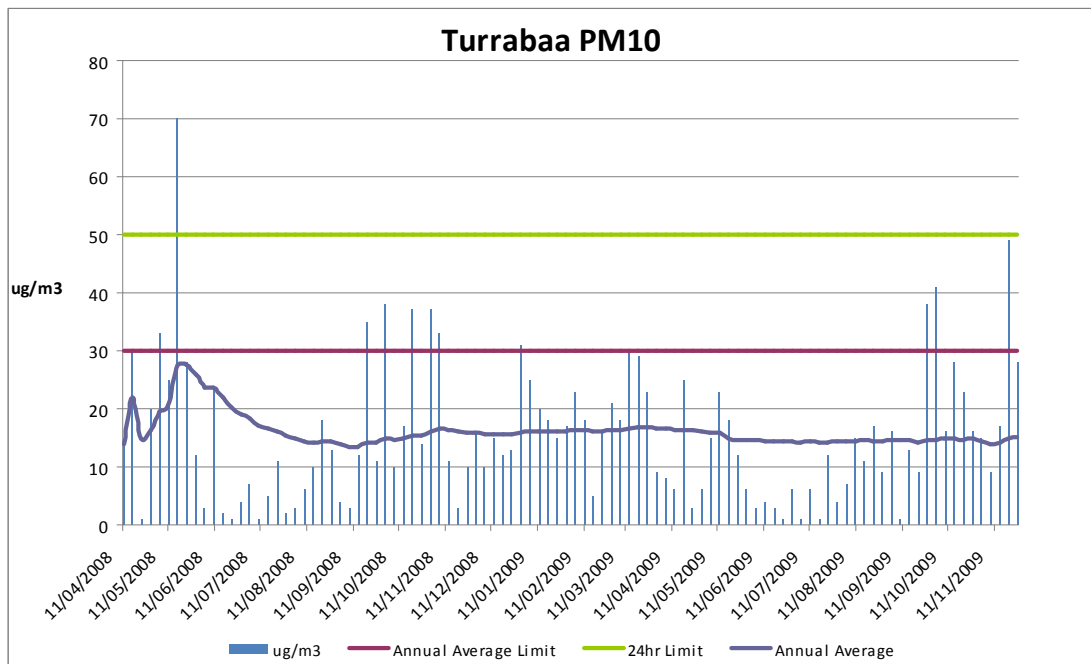
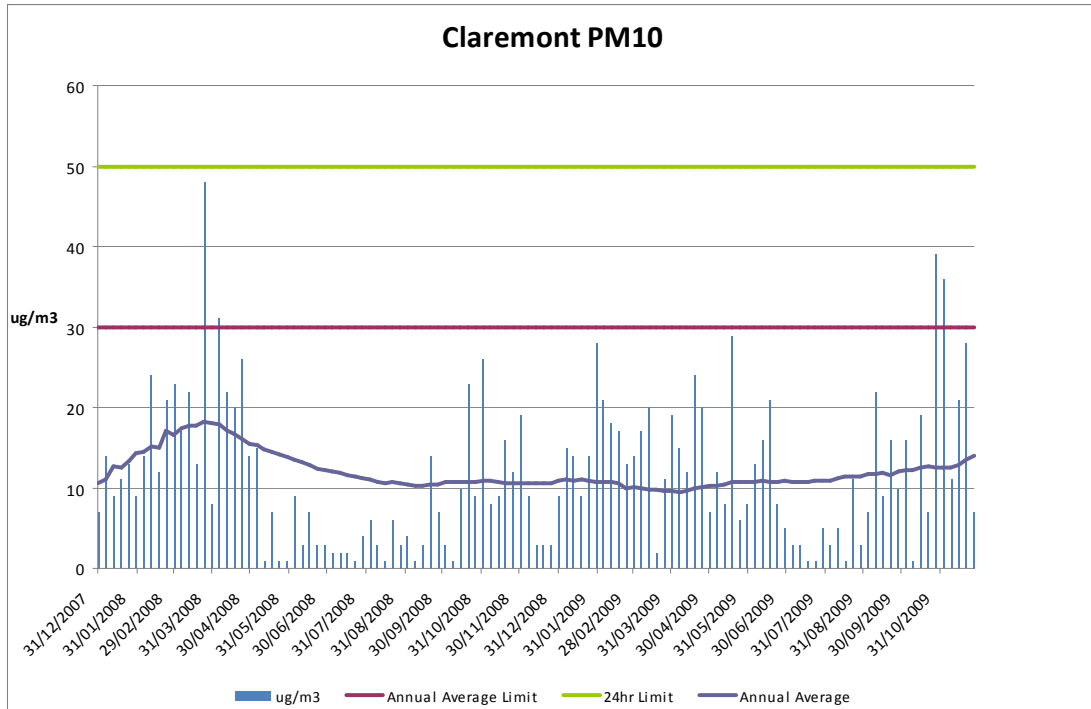
Deposited dust results have been relatively high since the last CCC meeting as a result of dusty conditions throughout September and October 2009 (including the severe dust storm on the 23rd September 2009) and sample contamination (plant material, insects and bird droppings). These results have had a significant impact on the annual average result.

The impact of the dust storms on deposited dust results was referred to the relevant agencies.

High Velocity Air Sampling (PM₁₀)

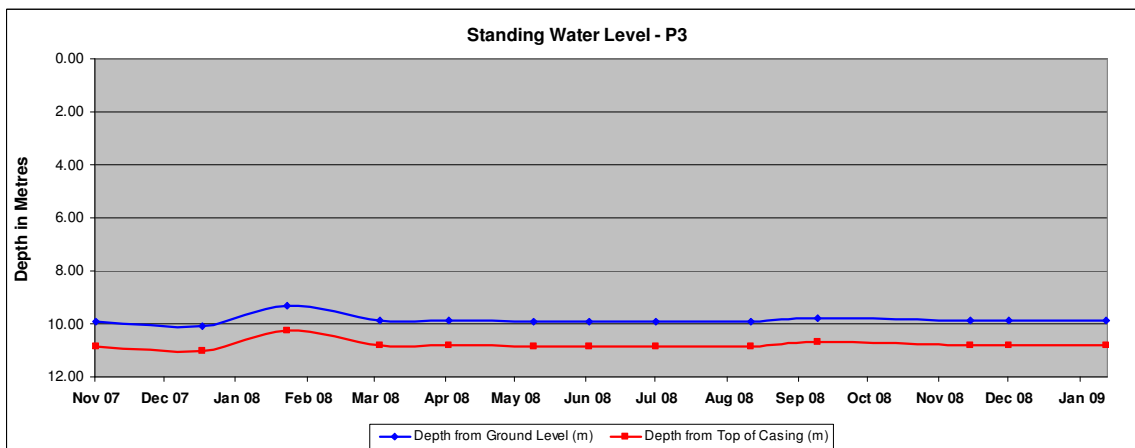
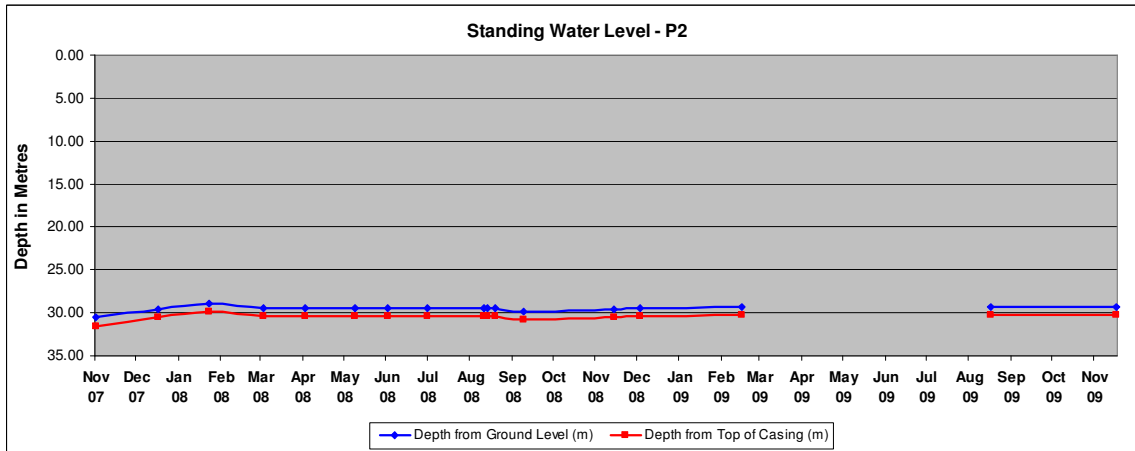
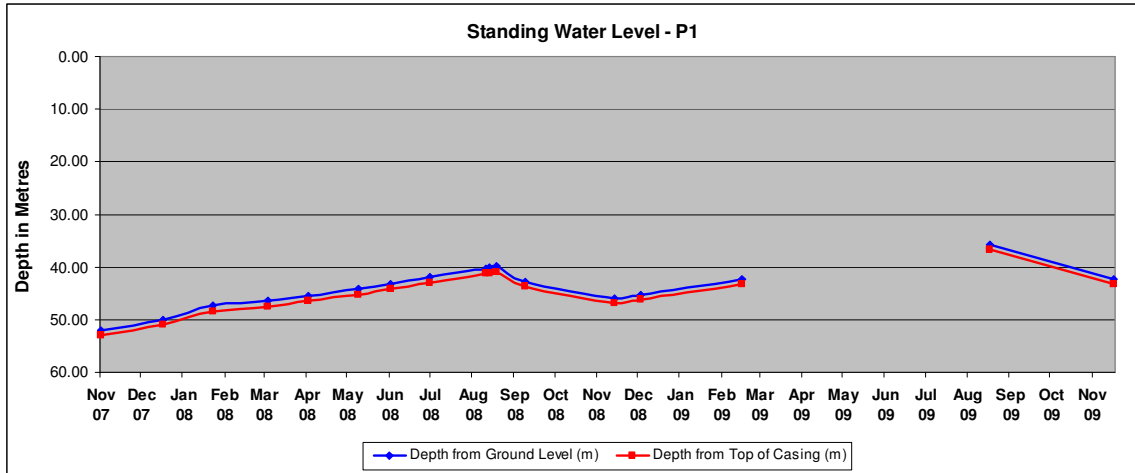
PM₁₀ measurements taken to date for the "Claremont" High Velocity Air Sampler is returning a running annual average of 14.02ug/m³ which is well below the annual average limit of 30ug/m³. The highest reading from this sampler remains at 48ug/m³ as measured on 23rd February 2008.

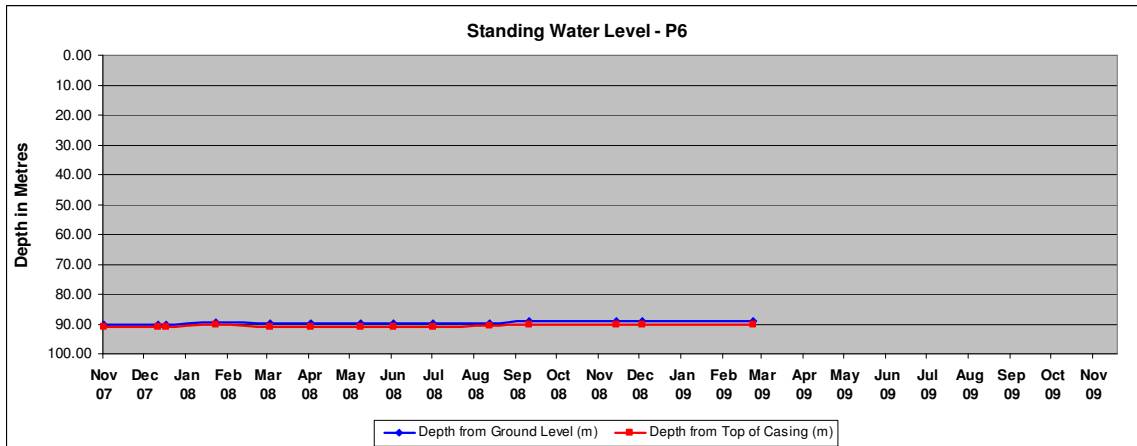
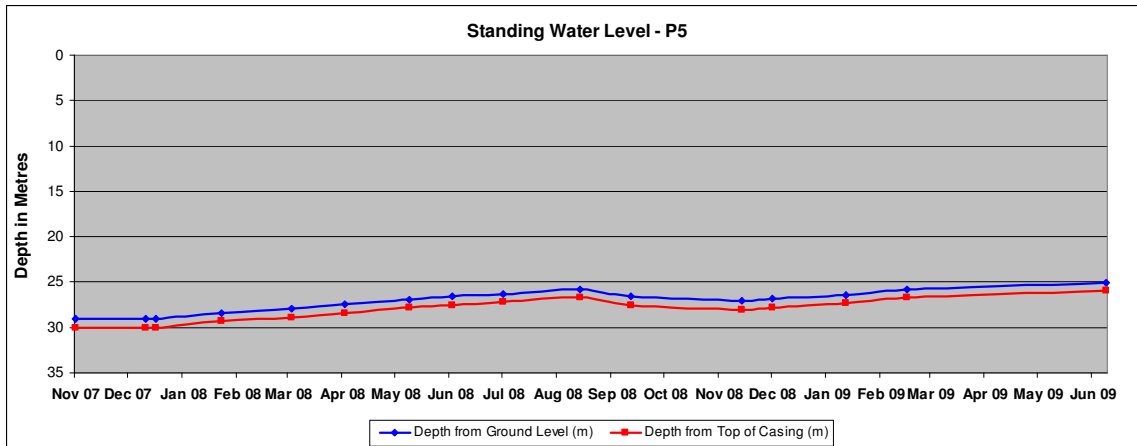
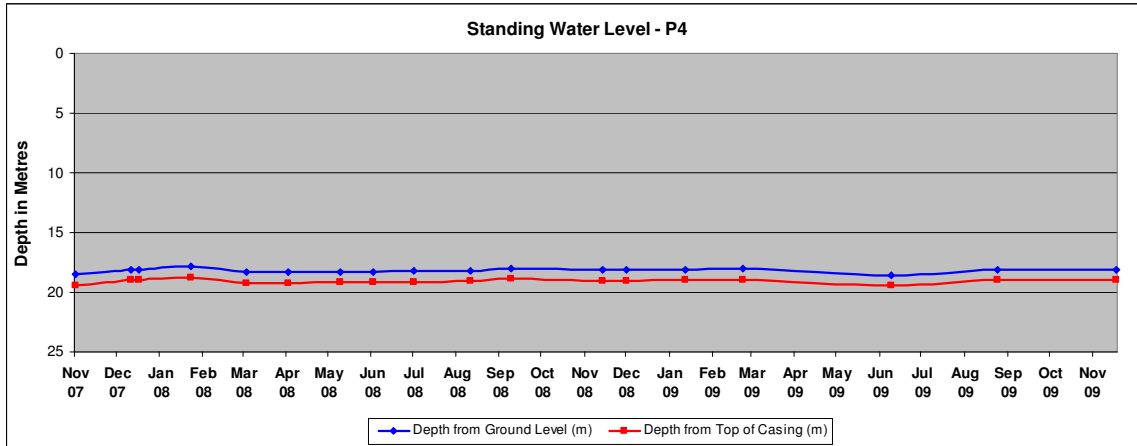
PM₁₀ measurements taken to date for the Turrabaa High Velocity Air Sampler is returning a running annual average of 15.16ug/m³ which is well below the annual average limit of 30ug/m³. The highest reading from this sampler remains at 70ug/m³ as measured on 17th May 2008.



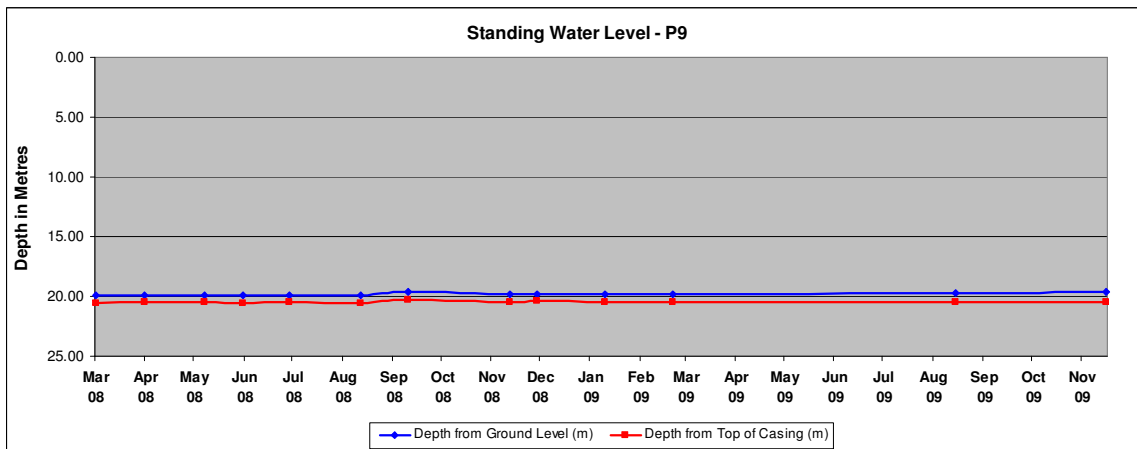
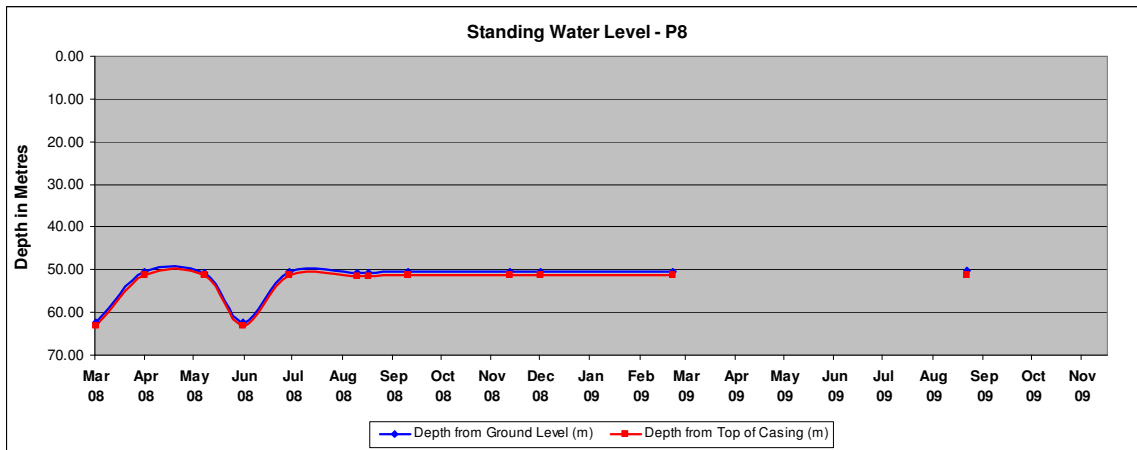
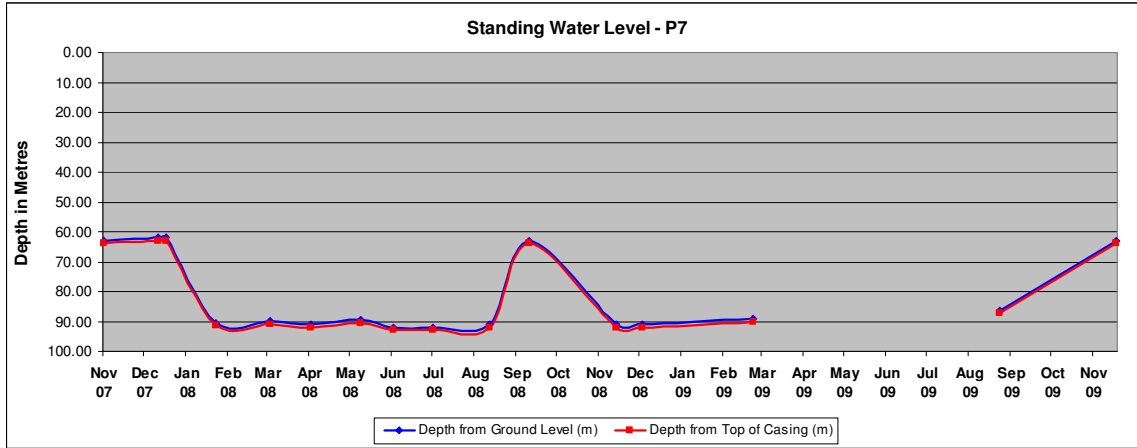
Groundwater Monitoring

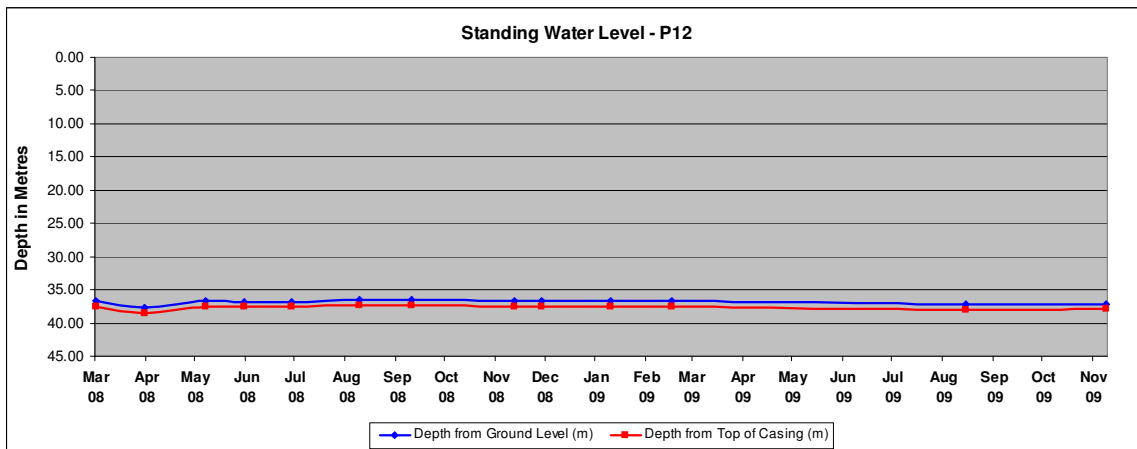
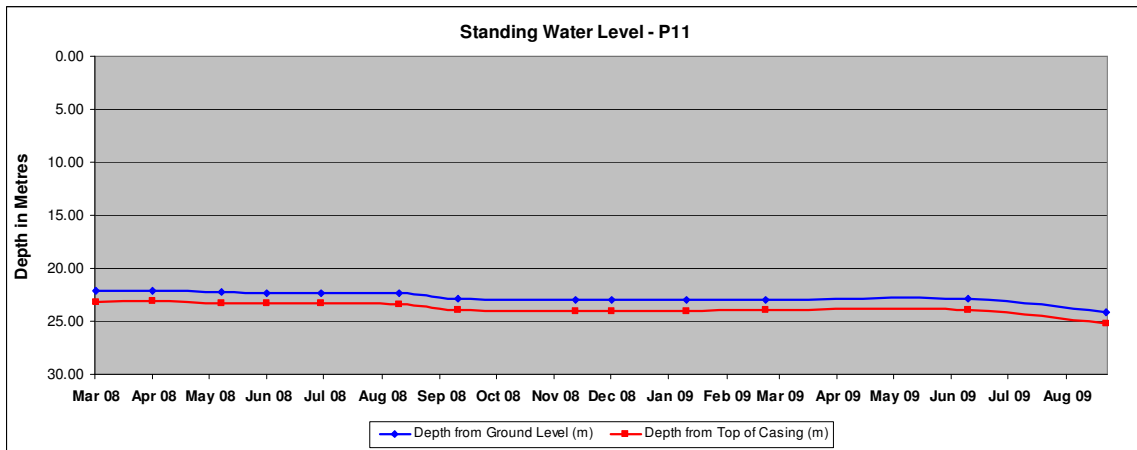
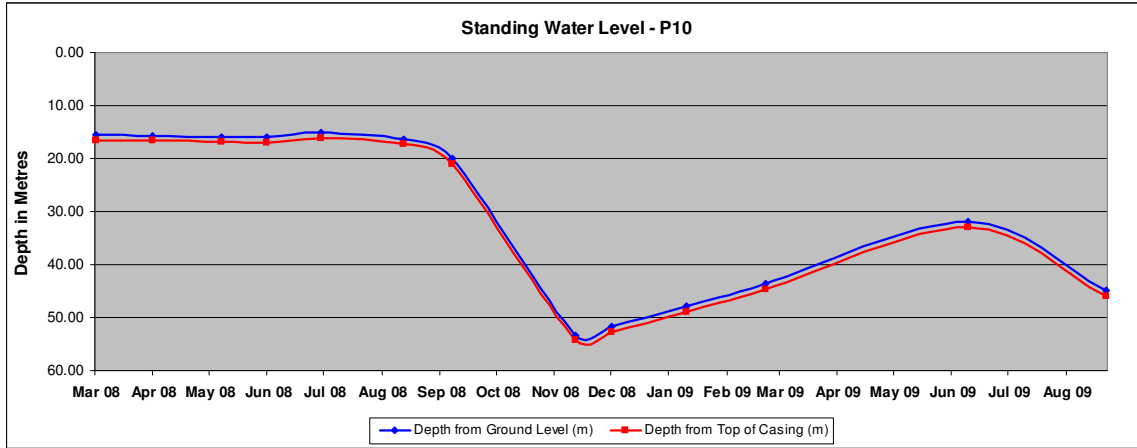
The most recent groundwater monitoring event was conducted in November 2009. P3 was not sampled and the standing water level at P8, P10 and P11 was not recorded due to equipment failure. It is expected that these will be recorded this week. Standing water levels were also recorded at the end of August 2009. Recorded Standing Water Levels to date are provided below.

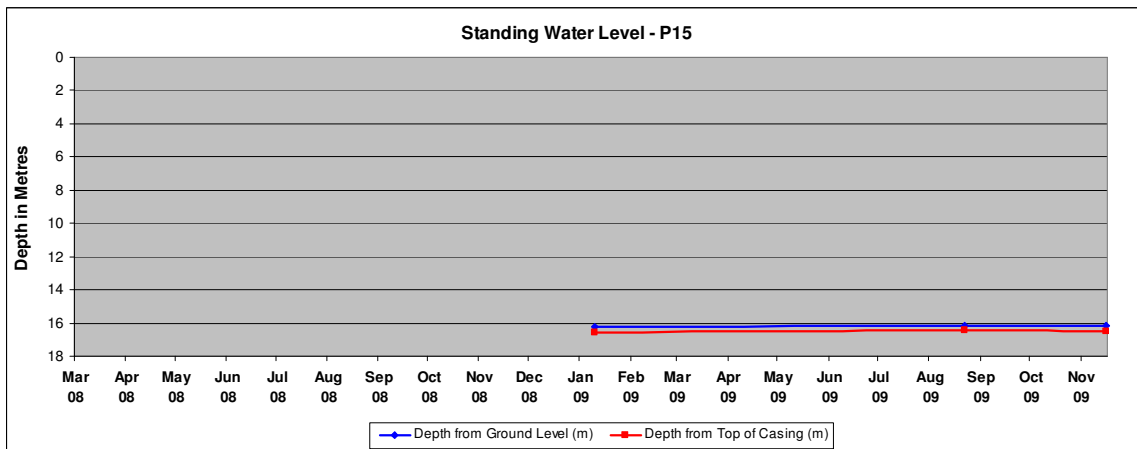
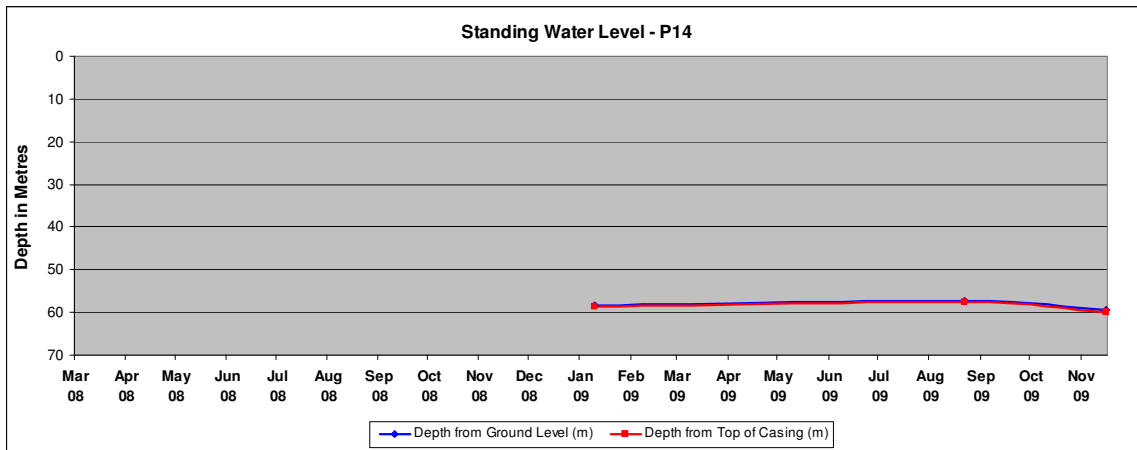
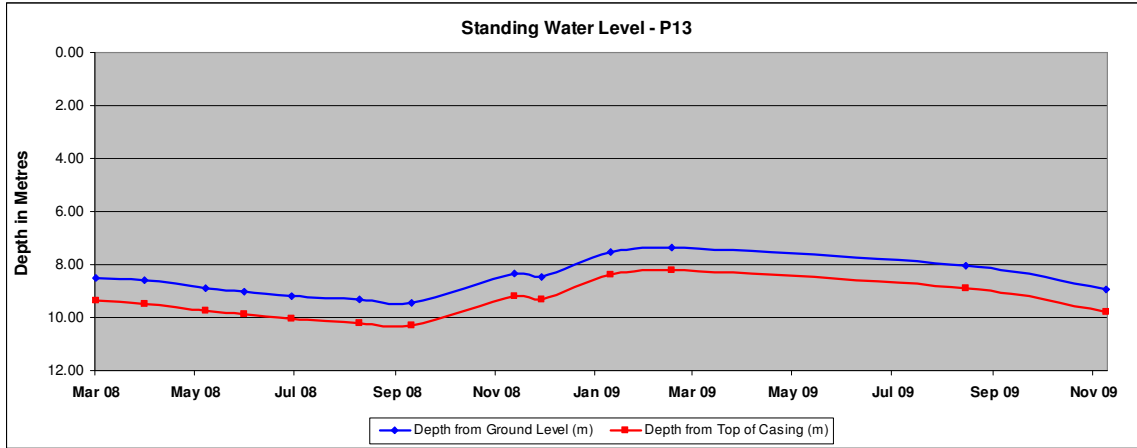


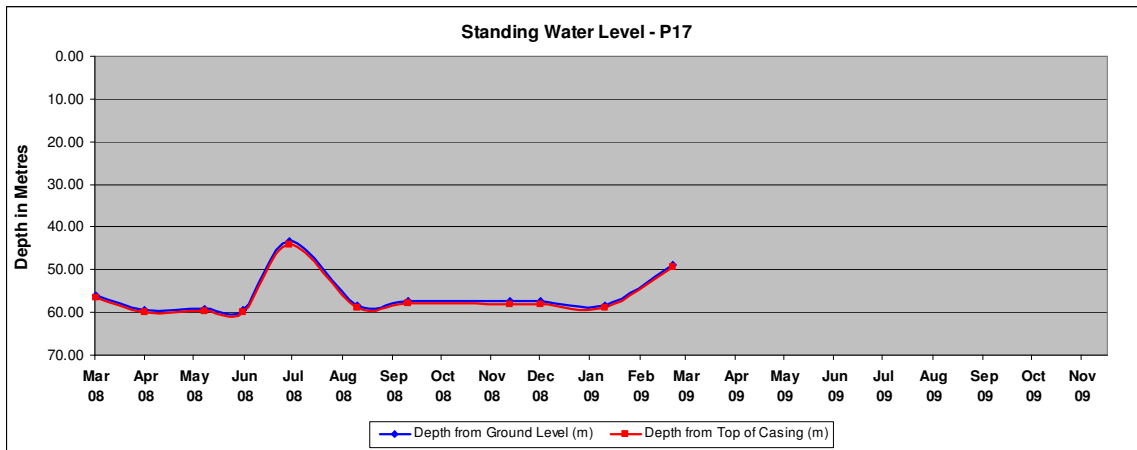
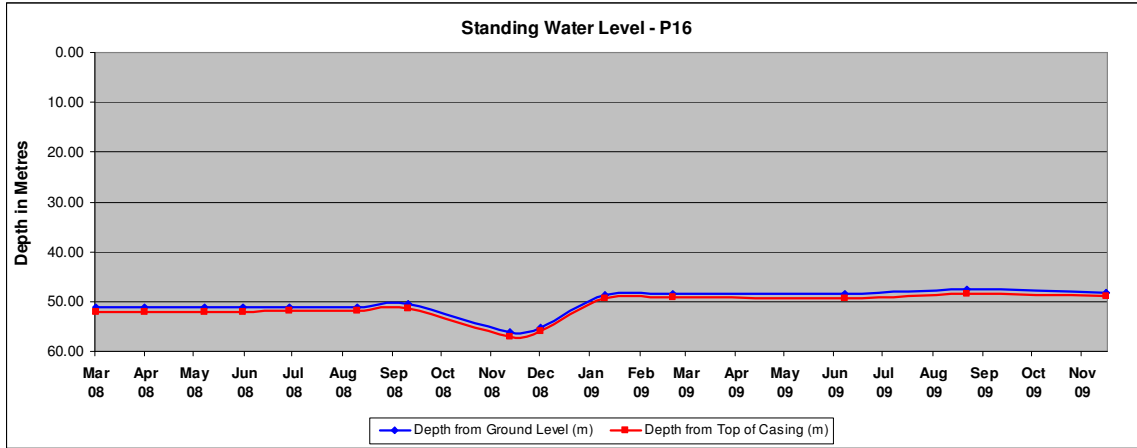


* P6 dry – Aug 09 and Nov 09

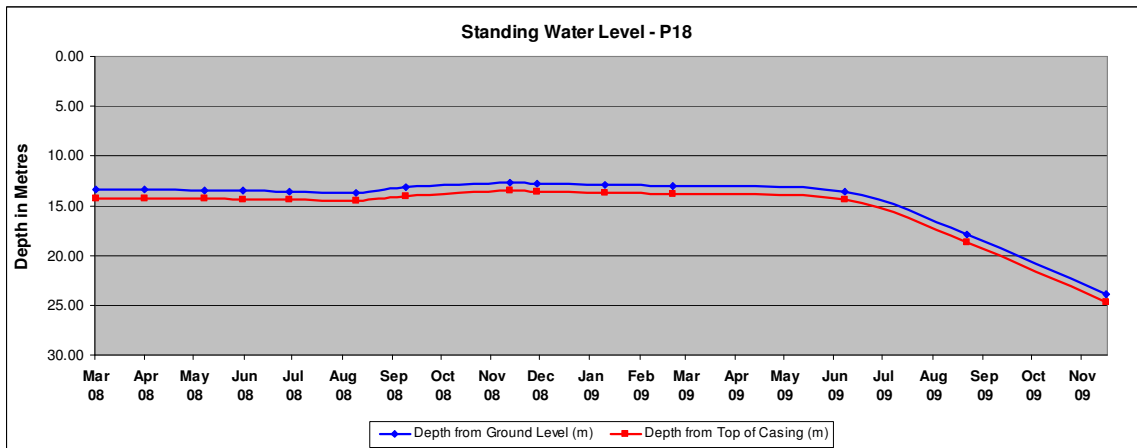


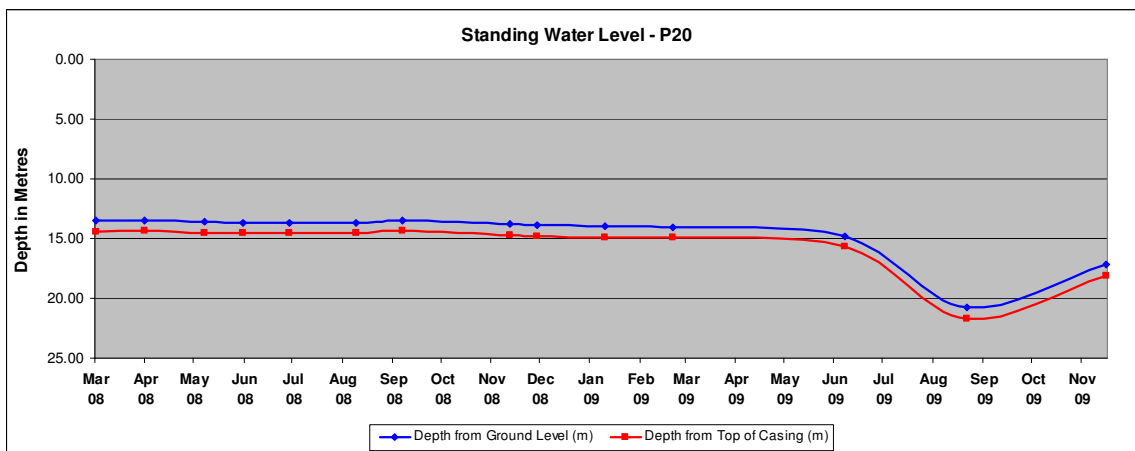
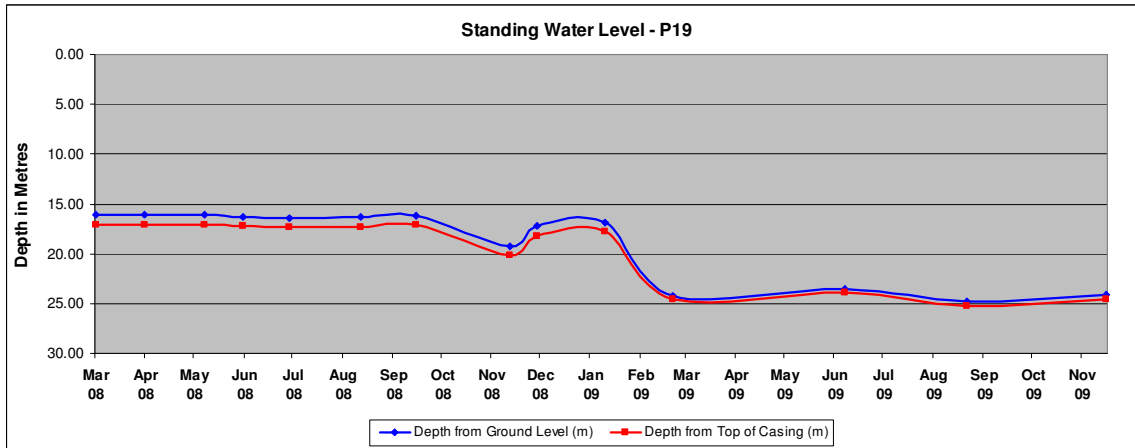






* P17 dry – June, Aug and November 2009





In general, groundwater levels have remained relatively constant since the last meeting. P18 has dropped approximately 10m since June 2009 which is likely associated with water extraction from the coal seam.

Surface Water Monitoring

No wet weather discharge events have occurred since the previous CCC meeting.

Complaints

No complaints have been lodged on the complaints line since the previous meeting. A complaint was lodged directly with the Project Manager, Ben Bomford, who advised the Environmental Manager. Details of the complaint and follow up action are as follows:

25th November 2009

Complainant noted that noise was coming from the mine site between 2am and 5am each day.

The complainant was advised that the matter would be investigated to identify the noise source. Subsequent discussions between staff identified no additional surface fleet that would impact on noise sources, with the only other equipment on site related to the gas plant. It was determined that the best course of action would be to engage Spectrum Acoustics to undertake noise monitoring specifically during that time frame (2am-5am) to identify any noise source and if it is outside compliance requirements.

Noise monitoring will be conducted in December with the complaint to be followed up following receipt of monitoring results.

Rehabilitation

Additional rehabilitation works since the previous meeting have comprised re-working the eastern amenity bund and planting of tubestock in and around the bund to improve the visual aspect from the south-eastern side of the site.