

Narrabri Coal Project Community Consultative Committee Meeting #9

Environmental Monitoring Report February 2010 – April 2010

Noise Monitoring

Attended noise monitoring was undertaken on the 26th March 2010 to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

Noise Monitoring Results – 26 March 2010 (Day)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	4:18 pm	36.6	<1 m/s SE	Traffic (35), Insects (29), NCM inaudible
Naroo	2:48 pm	40.7	Calm	Birds (39), Traffic (35), NCM inaudible
Claremont*	3:07 pm	31.3	Calm	Plane (28), Insects (27), NCM inaudible
Westhaven	3:26 pm	33.5	Calm	Birds (31), Insects (29), NCM inaudible
Greylands	3:46 pm	39.3	Calm	Local car (35), Birds (34), NCM (30) [#]

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

[#] Distant drill rig.

Noise Monitoring Results – 26 March 2010 (Evening)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	8:20 pm	46.9	Calm	Traffic (46), Insects (36), NCM inaudible
Naroo	8:37 pm	44.7	Calm	Traffic (44), Insects (37), NCM inaudible
Claremont*	8:55 pm	51.5	Calm	Insects (51), NCM (22) [#]
Westhaven	9:18 pm	38.0	Calm	Insects (38), NCM (19) [#]
Greylands	9:36 pm	38.8	Calm	Insects (35), Dog (35), NCM inaudible

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

[#] Distant drill rig.

Noise Monitoring Results – 26 March 2010 (Night)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	11:24 pm	44.1	Calm	Traffic (44), Insects (25), NCM inaudible
Naroo	11:04 pm	46.1	Calm	Traffic (44), Insects (35), NCM (26) [#]
Claremont*	10:43 pm	44.1	Calm	Insects (44), NCM (27) [#]
Westhaven	10:21 pm	41.6	Calm	Insects (41), NCM inaudible
Greylands	10:01 pm	36.4	Calm	Insects (34), Traffic (28), NCM (19) [#]

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

[#] Distant drill rig.

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

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) $L_1 (1 \text{ min})$ between the hours of 10 pm and 7 am. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the mine. During the night time measurement circuit the $L_1 (1 \text{ min})$ noise from the mine did not exceed 45 dB(A) at any monitoring location.

Unattended noise monitoring was also undertaken in March 2010, 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 Willarah	ND7 Claremont	ND8 Claremont
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
December 2009	15.4	10.3	2.3	3.1	1.9	1.9	1.7	1.8
January 2010	10.7	3.8	1.4	11.0	1.6	5.4	1.5	5.0
February 2010	5.2	1.3	1.2	2.9	1.6	2.3	0.9	2.0
March 2010	1.3	1.5	1.0	26.3	2.9	4.3	5.2	2.6
April 2010	1.4	1.0	1.4	36.1	1.4	0.8	4.5	2.1
Annual Average	11.3	4.0	4.4	9.8	3.9	3.2	3.7	3.8

Deposited dust results have remained at relatively low levels since the last meeting with the exception ND4 (Matoppo). These elevated results are believed to be associated with contamination issues (plant material, insects, bird droppings) rather than mining operations. The April 2010 laboratory report noted that farming activity was occurring at the time of sample collection at ND4.

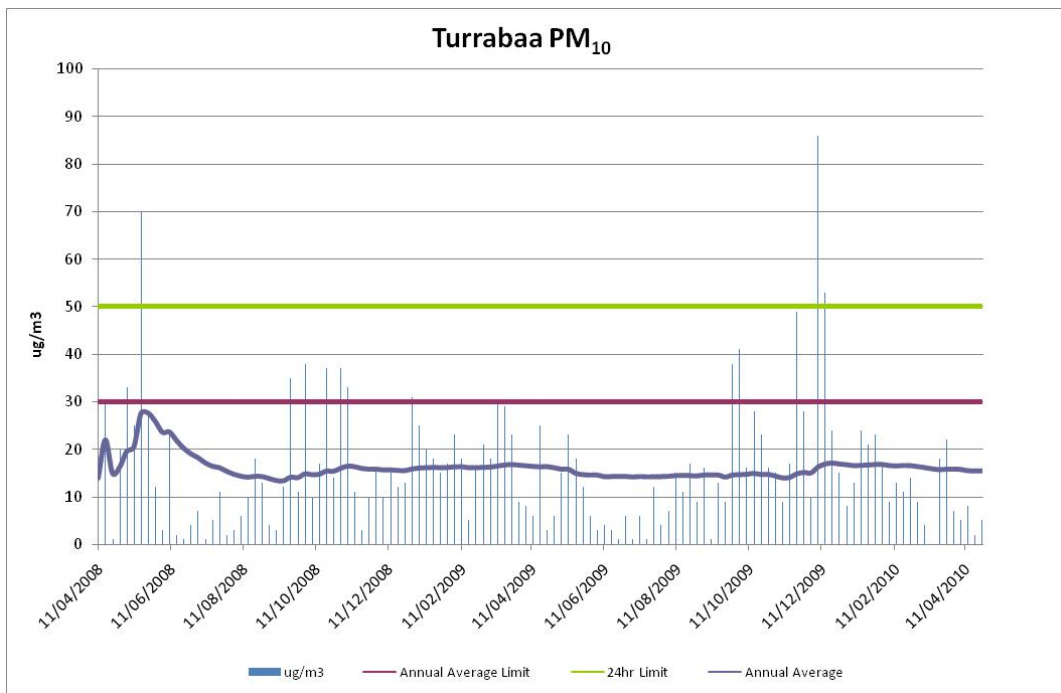
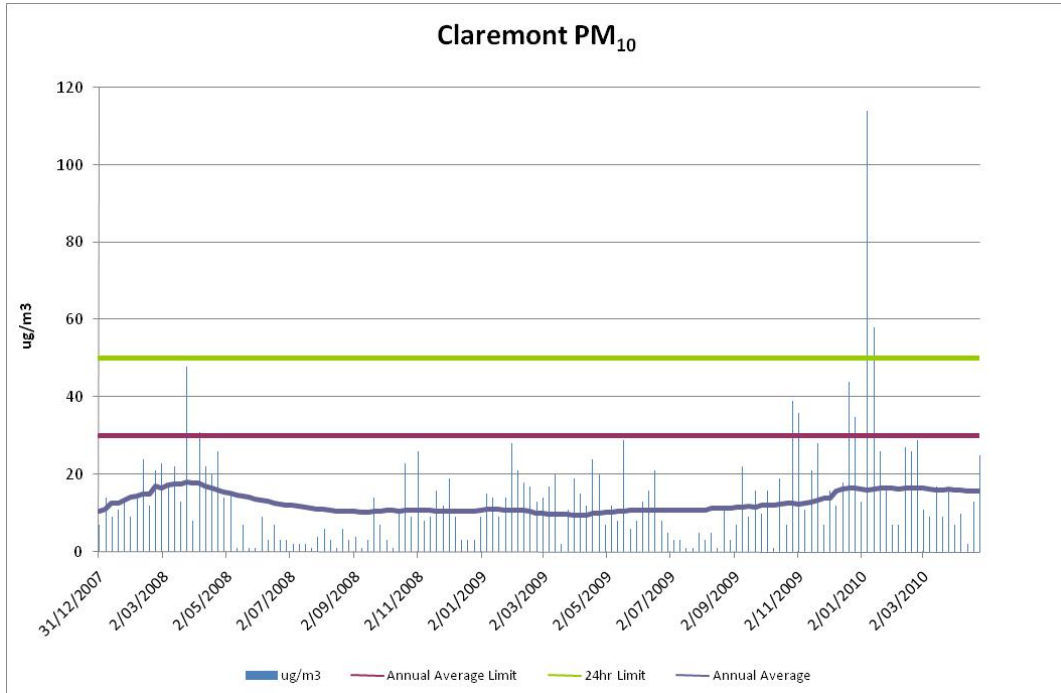
Only 3 sites (ND1, ND3 and ND4) currently have an annual average that exceeds the annual average criteria of 4 g/m²/month, compared to 6 sites at the last meeting.

High Volume Air Sampling (PM₁₀)

PM₁₀ measurements taken to date for the “Claremont” High Volume Air Sampler is returning a running annual average of 15.90 µg/m³ which is well below the annual average limit of 30 µg/m³.

PM₁₀ measurements taken to date for the “Turrabaa” High Volume Air Sampler is returning a running annual average of 15.49 µg/m³ which is also well below the annual average limit of 30 µg/m³.

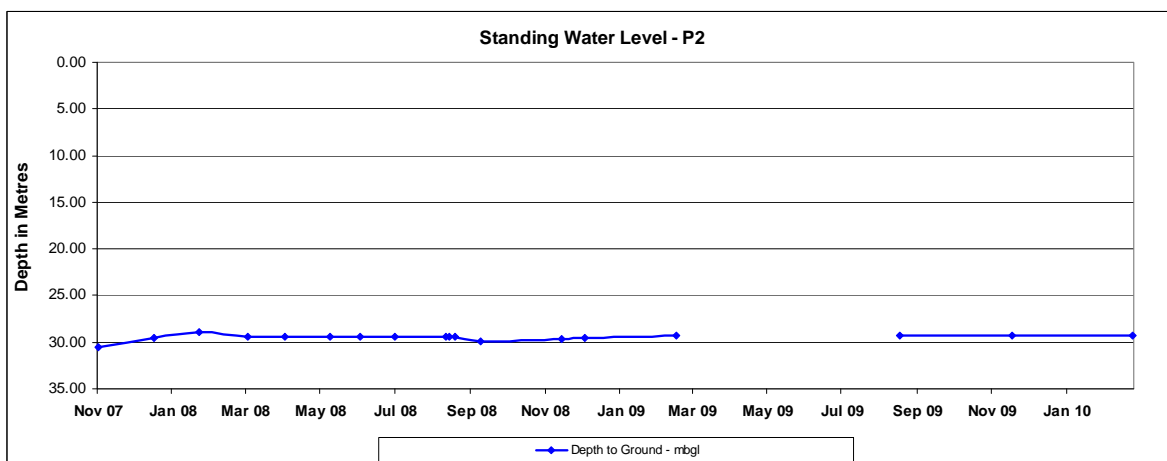
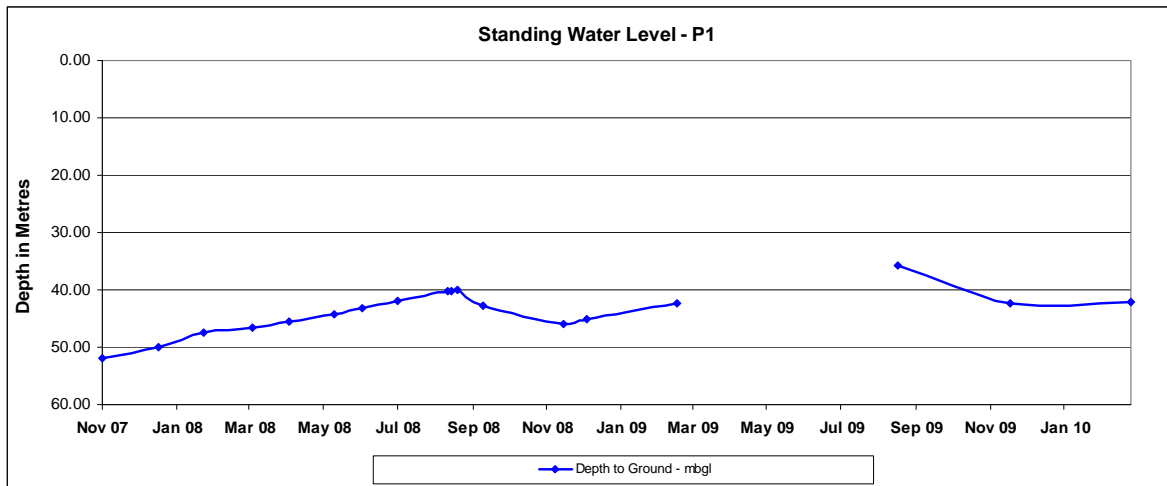
PM₁₀ levels have remained compliant over the past 3 months.

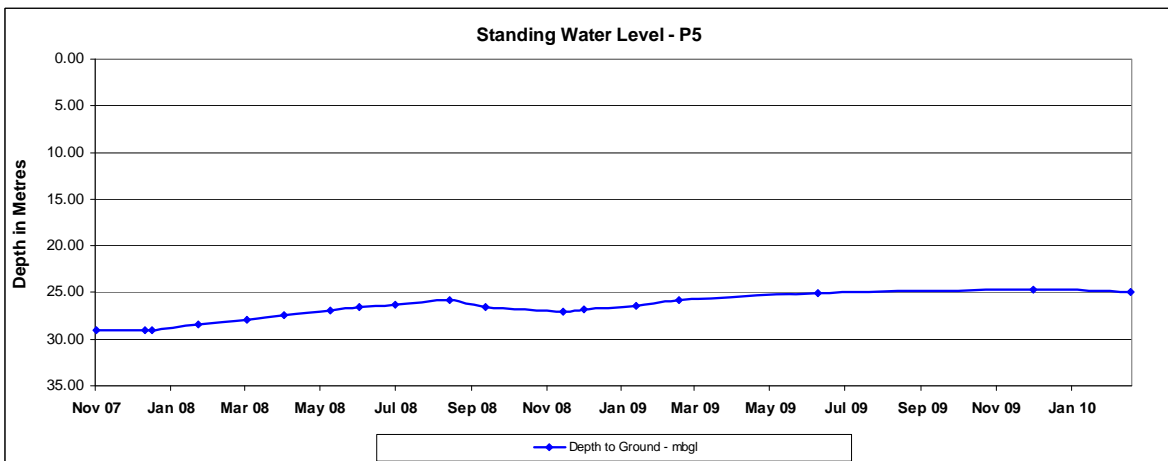
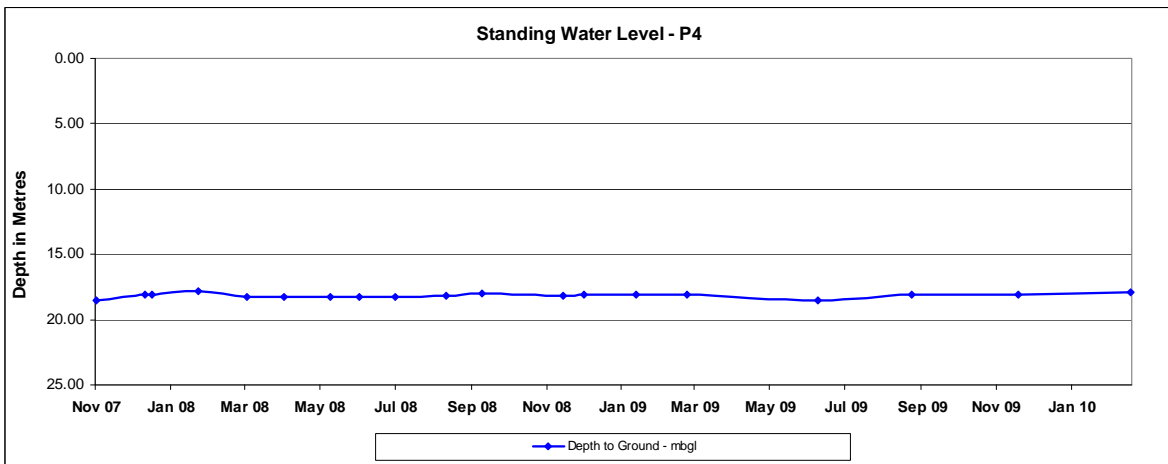
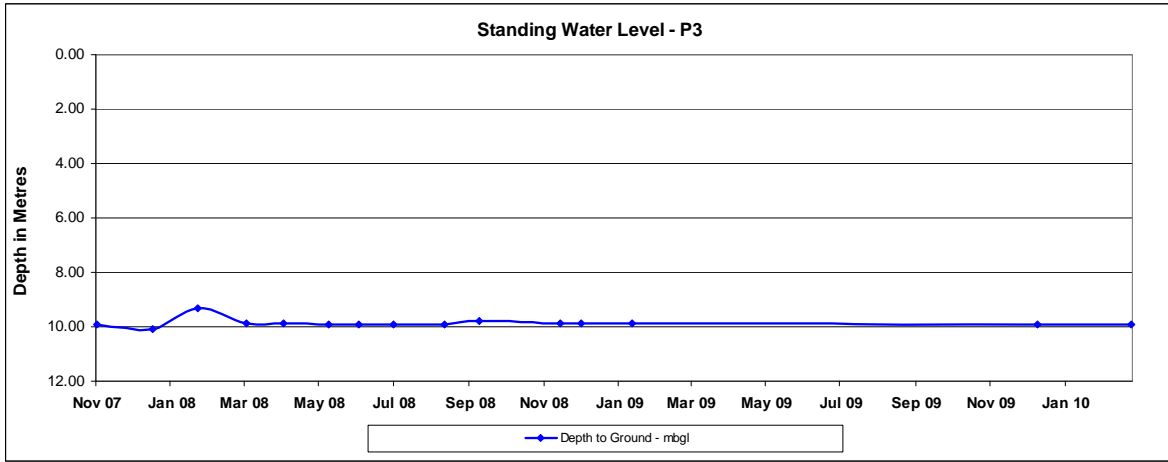


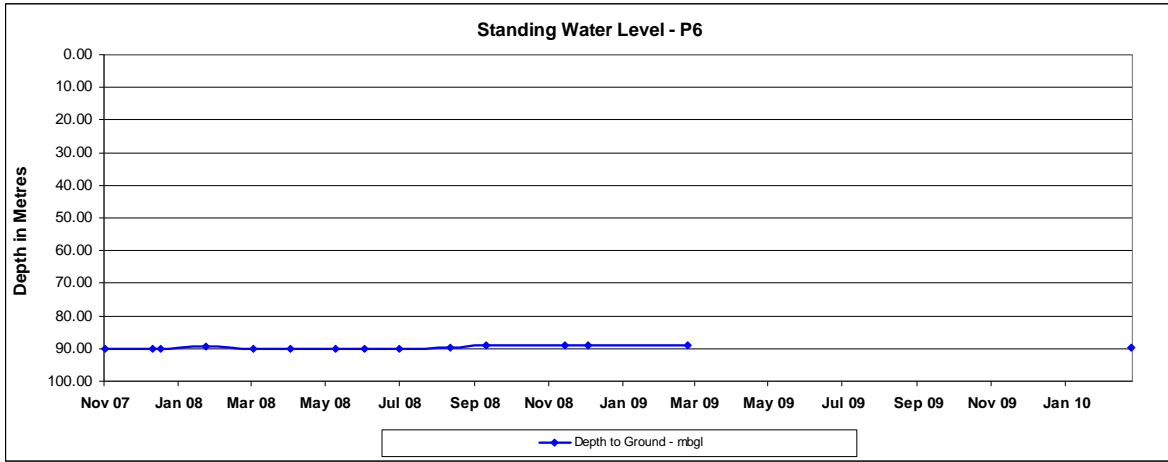
Groundwater Monitoring

Routine groundwater monitoring was scheduled for May 2010 however unforeseen circumstances with field staff as well as the recent wet weather have delayed monitoring. The noticeable drop in SWL at P18 and P20 has triggered more frequent monitoring at these sites. It is expected that the full round of monitoring will be conducted in the coming weeks with SWL results provided at the next CCC meeting.

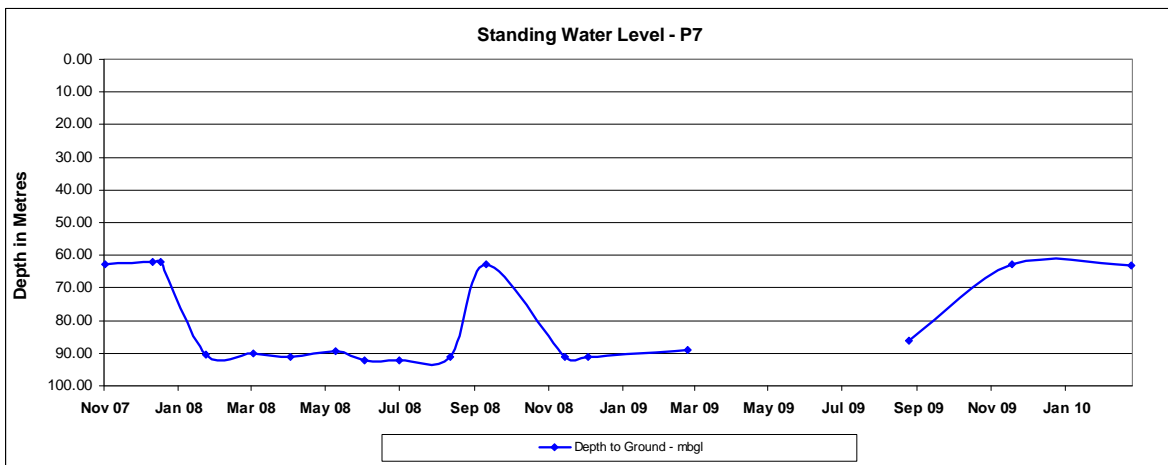
The graphs below show the SWL trends at each site since monitoring commenced. In general, groundwater levels have remained relatively constant over the last 6 months with the exception of P18 and P20. These piezometers are located approximately 1.5km north-east of the surface facilities and the drop in SWL is likely associated with water extraction from the coal seam. The SWL at these two sites has started to plateau slightly in the last couple of months.



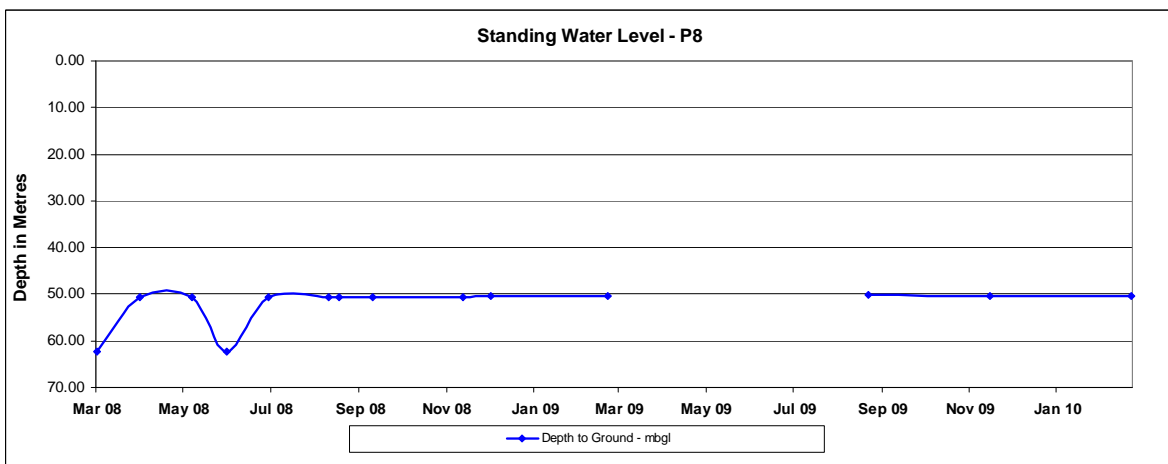


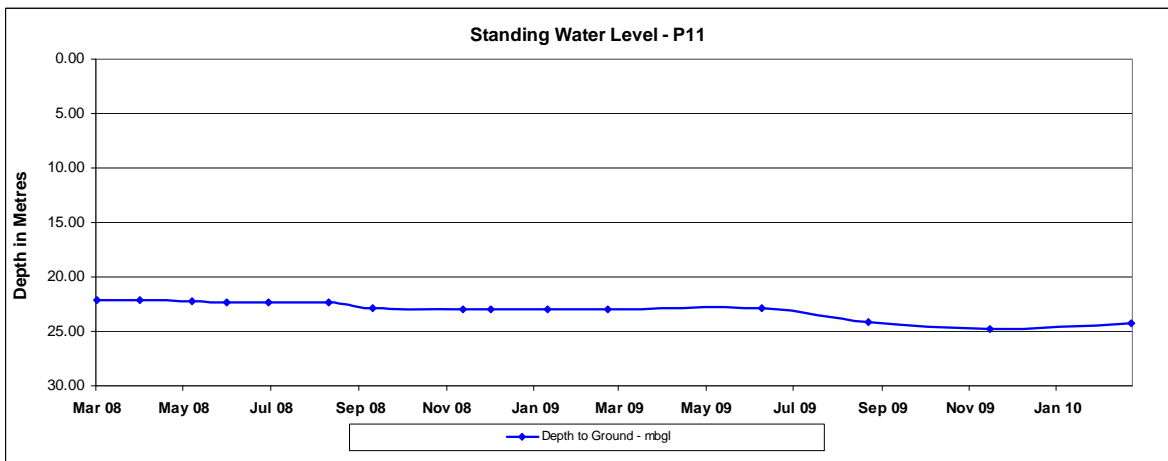
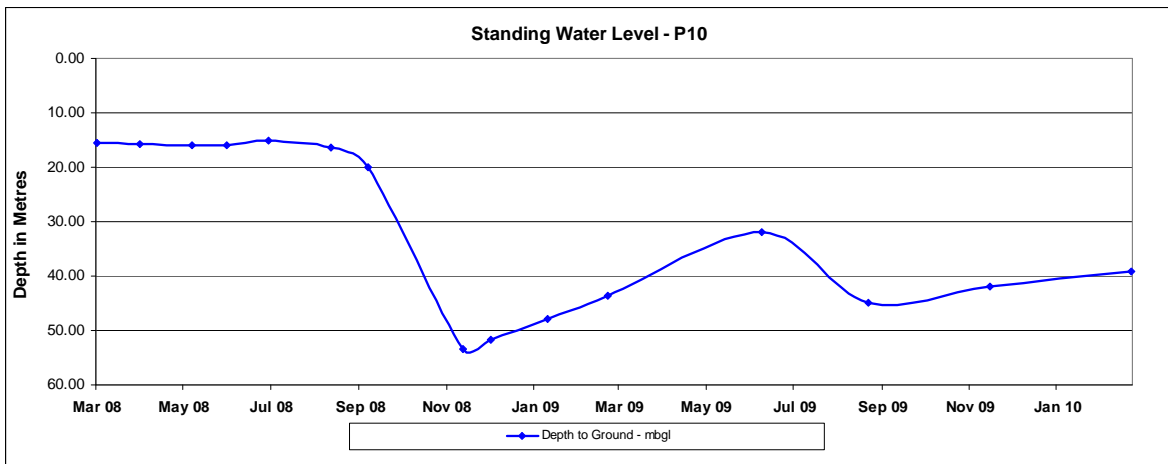
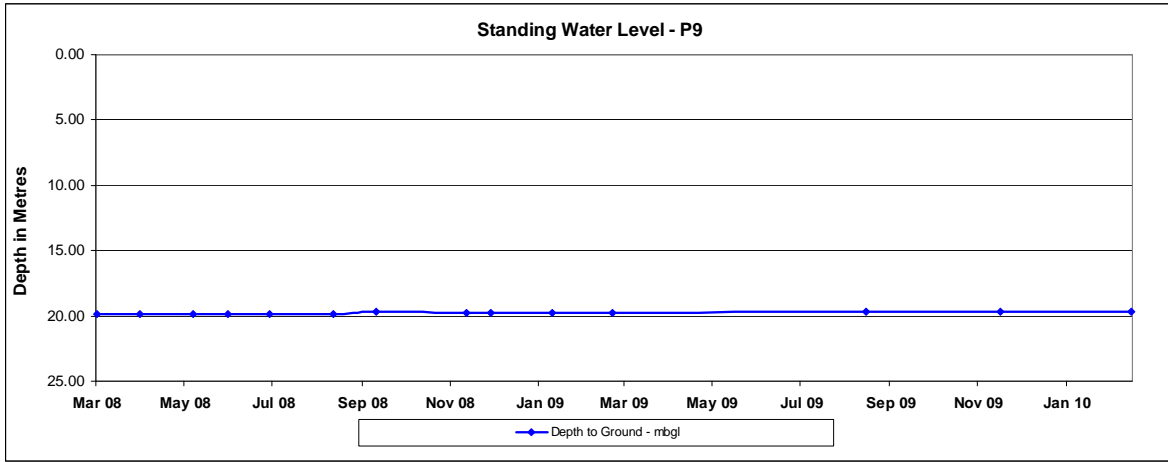


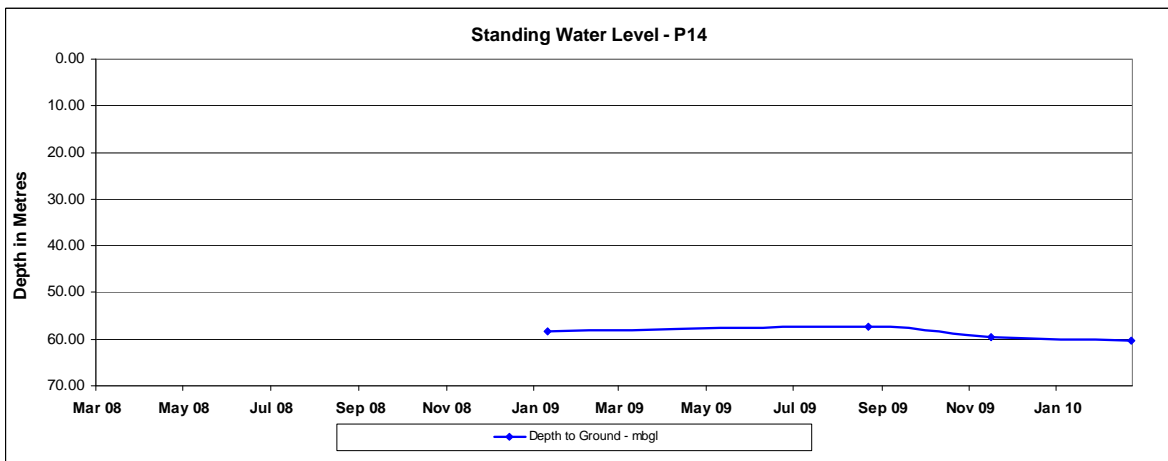
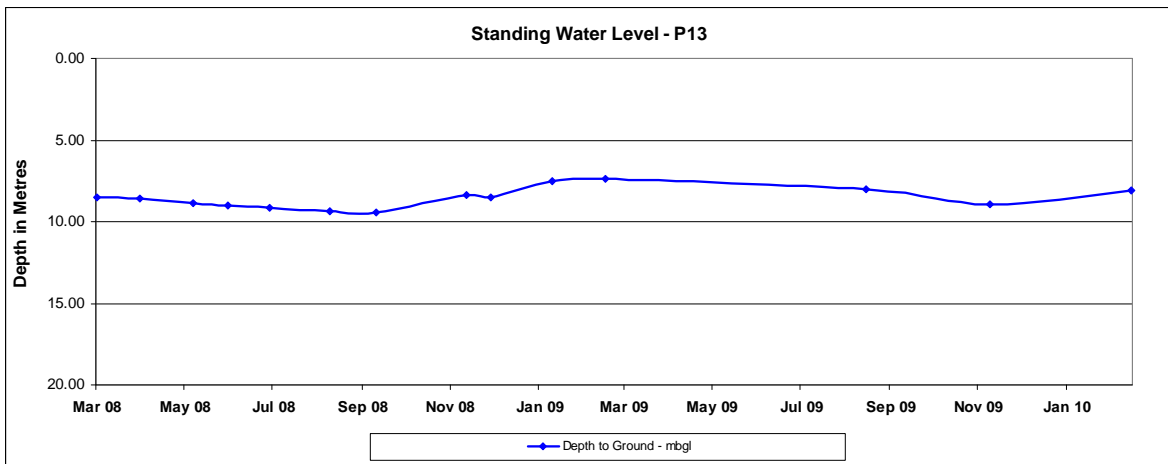
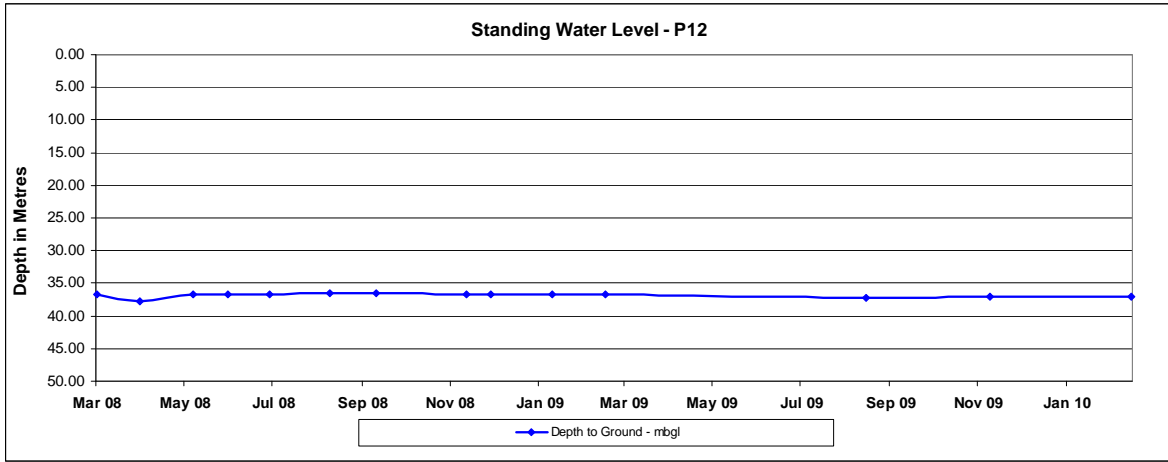
* P6 dry – Aug 09 and Nov 09

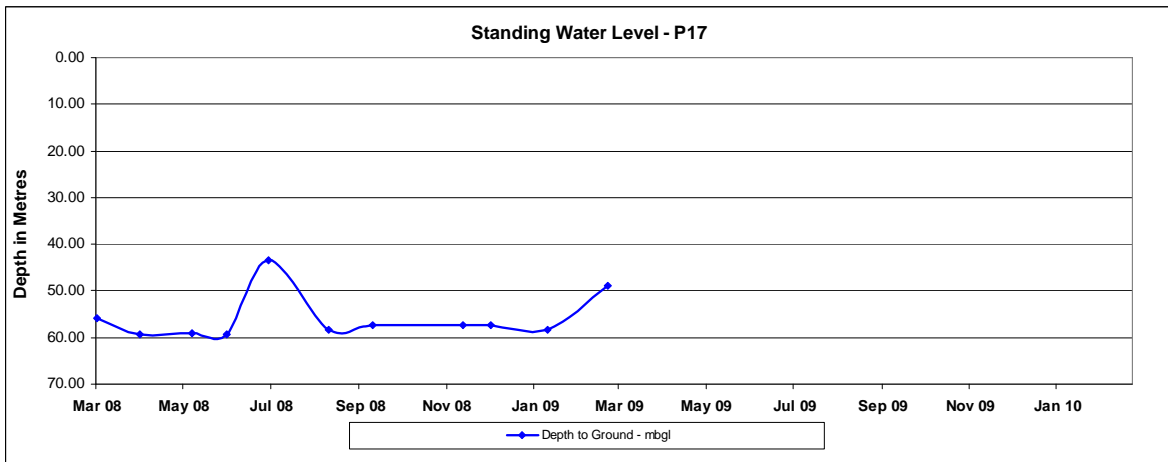
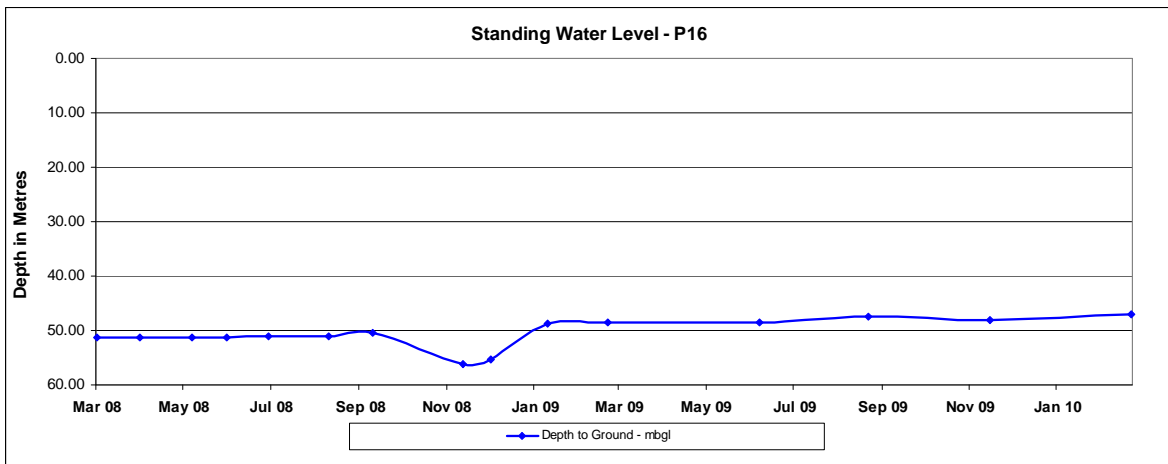
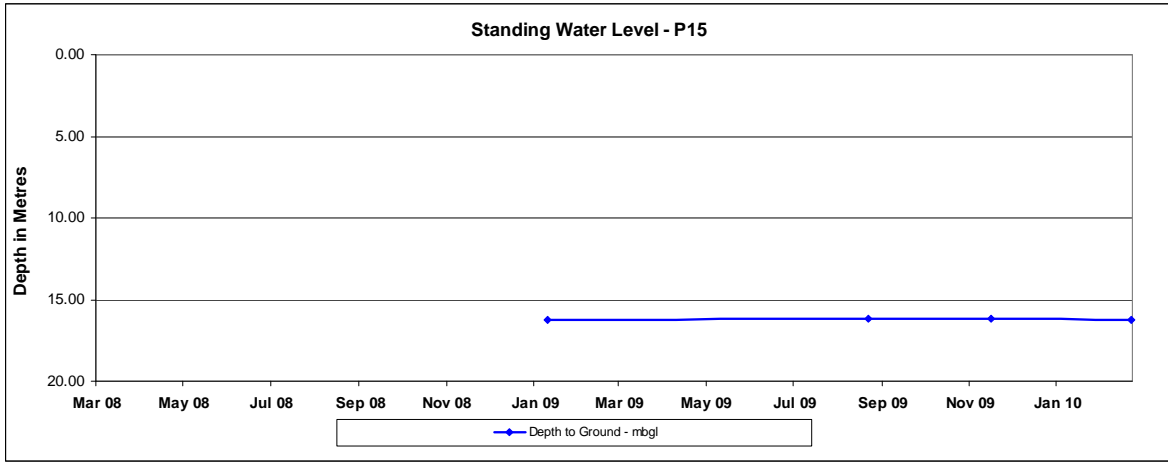


* P7 dry – June 09

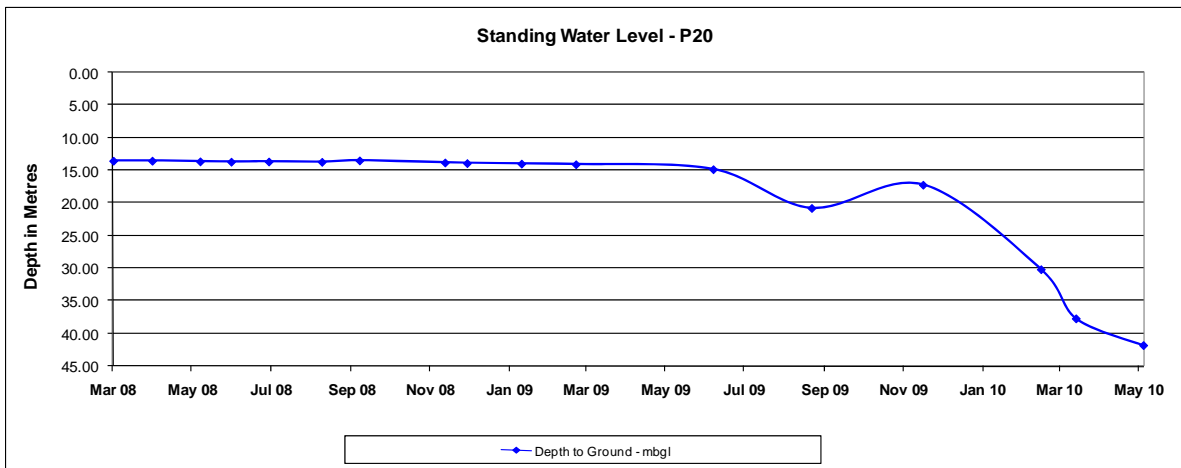
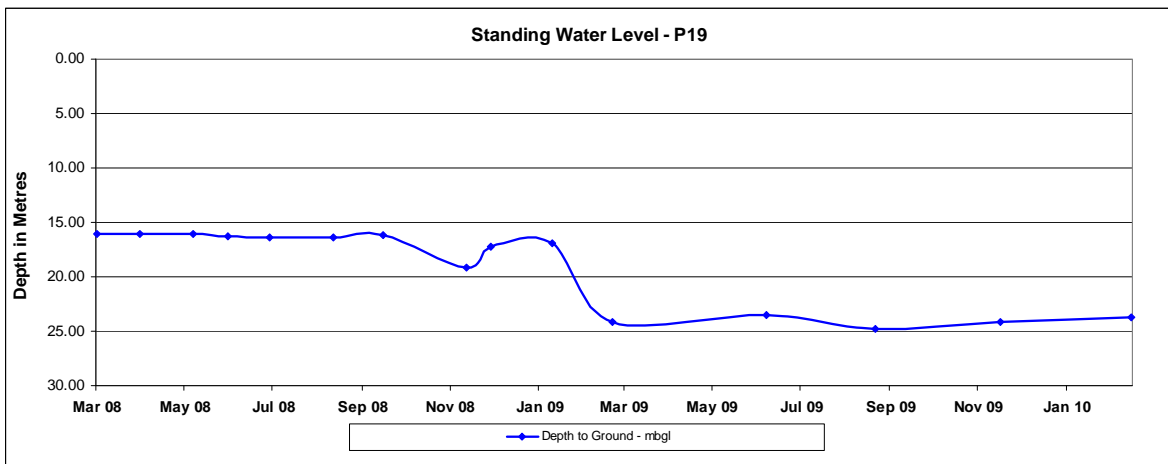
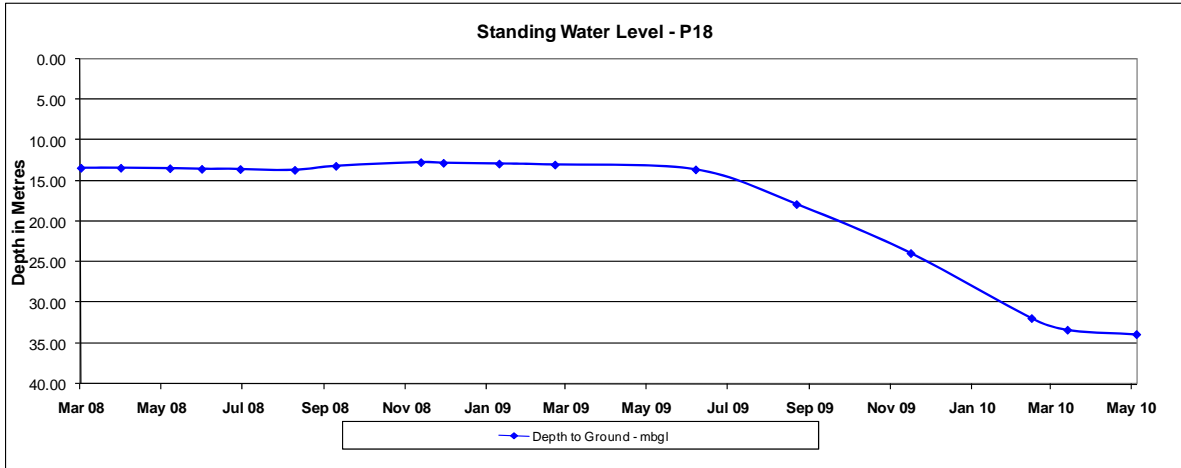








* P17 dry – June 09, Aug 09, Nov 09 and Feb 10



Surface Water Monitoring

No wet weather discharges have occurred during the last 3 months.

Routine monitoring of onsite dams was conducted in March and May 2010 to obtain background water quality data. There was nothing in these results that were indicative of any change in water quality since monitoring commenced.

Complaints

No complaints have been lodged since the last CCC meeting.

Rehabilitation

Additional rehabilitation works since the previous meeting have comprised planting of tubestock in and around the bund to improve the visual aspect from the southern side of the site.