

Community Consultative Committee Meeting Minutes

Meeting No: 12

Date: 5th April 2011

Time: 4.00pm

Location: Narrabri Coal Operations Site Office

Present:

Terry Miller - Chairman
Cr Ken Bates
Peter Lennox
Greig Duncan (Narrabri Coal Operations General Manager)
Danny Young (Whitehaven Environmental Manager)
Jill Scealy (Whitehaven Environmental Officer)
Mereka Smith (Narrabri Coal Operations Administration Assistant)

1.0 Apologies

Ben Bomford
Sally Hunter

2.0 Previous Minutes

Moved: Peter Lennox

2.1 Business Arising from Previous Minutes

- 2.1.1** Open Day to take place around October 2011. Media release on Open Day to be published in the Narrabri Courier.
- 2.1.2** Newsletter for the public to be developed to provide the community with information on mine site projects and mine status. An update of newsletter development will be provided at the next CCC meeting.
- 2.1.3** No specific work has been undertaken in relation to a regional monitoring station at Baan Baa. DECCW haven't indicated any specific need to install monitoring equipment at Baan Baa and the closest DECCW dust monitoring location (PM₁₀) is Tamworth. Whitehaven is currently developing a cumulative impact monitoring network for its Tarrawonga open cut in consultation with Boggabri Coal and Aston Resources. This will also involve consultation with both the Department of Planning and DECCW. The outcome of this work may have some relevance to determining any regional monitoring requirement relevant to Narrabri operations. An update on this will be provided at next CCC meeting.

3.0 General Business

3.1 Construction Progress Report

DESCRIPTION OF WORKS	PERCENT COMPLETE
Environmental and Exploration	100%
Longwall	86%
Coal Process System	70%
Ventilation Shaft and Fans	60%
Underground and Surface Mobile Equipment	100%
Industrial Area (Store & Admin)	75%
Power Upgrades	30%
Underground Services	40%
Underground Conveyors	75%
Land Acquisition	95%
Surface Water	70%
Control Equipment (SCADA)	70%

3.2 Environmental Overview

As per provided report.

4.0 Complaints and Complaints Hotline

As per provided report.

Cr Ken Bates spoke on the matter of the vehicle pulling out in front of the school bus, advising that he was the bus driver. He said the incident happened very fast and he couldn't identify who it was.

Terry Miller suggested that a stop sign be placed at the Greylands Road/Kamilaroi Highway intersection.

Danny Young advised he will speak to Narrabri Shire Council and an update will be provided at next CCC Meeting.

5.0 New Business

No new business

6.0 Next Meeting

Tuesday 7th June 2011, 4pm, Narrabri Coal Site Office

7.0 Closure of Meeting

Meeting closed 4.30pm

Narrabri Coal Mine Community Consultative Committee Meeting #12

Environmental Monitoring Report November 2010 – January 2011

Noise Monitoring

Attended noise monitoring was undertaken on the 13th December 2010 to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

Noise Monitoring Results – 13 December 2010 (Day)				
Location	Time	dB(A) _{Leq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	5:27 pm	42	1.5 m/s SE	Tractor (39), traffic (38), insects (33) NCM inaudible
Naroo	3:30 pm	46	1.5 m/s SE	Birds & insects (44), traffic (40) NCM inaudible
Claremont*	3:50 pm	37	1.5 m/s SE	Birds & insects (36), traffic (30), NCM inaudible
Westhaven	4:28 pm	41	1.5 m/s SE	NCM** (38), insects (37), birds (32)
Greylands	5:00 pm	40	1.5 m/s SE	Birds & insects (39), traffic (32), NCM Faintly audible

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

** Road construction NCM

Noise Monitoring Results – 13 December 2010 (Evening)				
Location	Time	dB(A) _{Leq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	9:26 pm	49	<0.5 m/s SE	Traffic (49), insects (36), NCM inaudible
Naroo	9:05 pm	50	<0.5 m/s SE	Frogs & insects (50), traffic (35) NCM inaudible
Claremont	8:46 pm	42	<1 m/s S	Birds and Insects (41), NCM (35)
Westhaven	8:20 pm	43	<1 m/s S	Birds and Insects (41), NCM (38)
Greylands	8:00 pm	44	<1 m/s S	Birds and Insects (45), NCM (34)

Noise Monitoring Results – 13 December 2010 (Night)				
Location	Time	dB(A) _{Leq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	10:30 pm	42	Calm	Insects (42), NCM inaudible
Naroo	10:49 pm	52	Calm	Frogs & insects (52), NCM (30)
Claremont	11:10 pm	49	Calm	Insects (39), NCM barely audible (<25)
Westhaven	11:35 pm	44	Calm	Frogs & insects (44), NCM (28)
Greylands	12:01 am	45	Calm	Insects (45), NCM (34)

The results indicate that noise emissions from the mine exceeded the criterion of 35 dB(A)_{Leq(15min)} at the "Westhaven" monitoring location during the day and evening

surveys. During the day, road construction activity near “Westhaven” dominated the noise measurement. In the evening the noise was related to drilling activities at the site of the vent fan construction. Narrabri Coal expects the noise levels to return below criteria upon completion of the nearby roadworks and construction of the vent pad given that no other locations in the area recorded noise levels above criteria. “Westhaven” is a project related property, and on this basis, no referral of elevated noise results to regulatory authorities is necessary.

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.

Deposited Dust Monitoring

Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarah	ND7 Claremont	ND8 Claremont
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
May 2010	1.3	2.2	1.0	8.0	18.3	3.3	1.6	1.0
June 2010	1.0	1.4	4.8	16.0	7.8	2.2	3.0	1.2
July 2010	1.4	0.8	3.0	21.0	4.2	0.6	11.1	0.9
August 2010	0.6	1.6	4.7	19.4	1.7	1.0	0.6	0.4
September 2010	0.9	2.0	2.8	17.9	4.7	0.5	3.2	0.9
October 2010	0.7	4.9	1.0	24.9	3.2	1.4	0.9	0.8
November 2010	1.1	2.3	0.3	27.3	3.6	4.1	2.2	0.5
December 2010	1.5	4.4	3.2	8.3	4.1	0.8	3.1	1.4
January 2011	1.1	4.4	0.7	0.1	2.1	7.1	3.7	0.9
Annual Average	1.5	2.3	2.1	17.4	4.6	2.4	3.3	1.2

Deposited dust results have remained at relatively low levels since the last meeting, with the exception of ND4 Matoppo. Only two sites (ND4 Matoppo & ND5 Claremont) remain above the annual average limit of 4 g/m²/month.

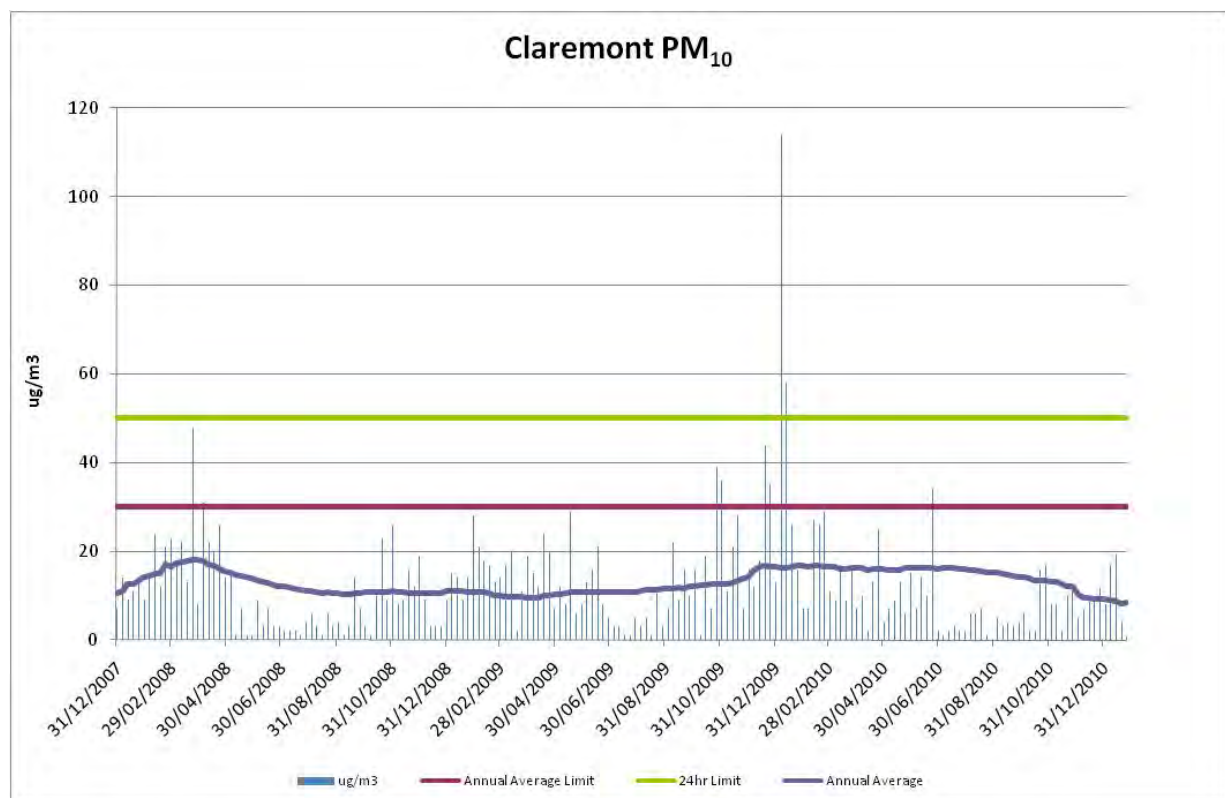
ND4 at “Matoppo” has returned elevated dust levels since January 2010. As previously discussed a burning drum located in close proximity to the dust gauge was thought to be the cause of earlier elevated levels. Since the drum was moved in July 2010 dust levels have remained elevated with the exception of January 2011. With the approval of the residents a second deposited dust monitor was placed in a new location at “Matoppo” during January 2011. The new monitor is further away from the house and in closer proximity to the pit top area of the mine site and expected to record more reliable results due to less interference from household activities. This monitor may eventually replace the original ND4 monitor. The first

results in February 2011 recorded a lower reading of $3.6 \text{ g/m}^2/\text{month}$. Monitoring at the new location (ND4a) will continue for the duration of operations.

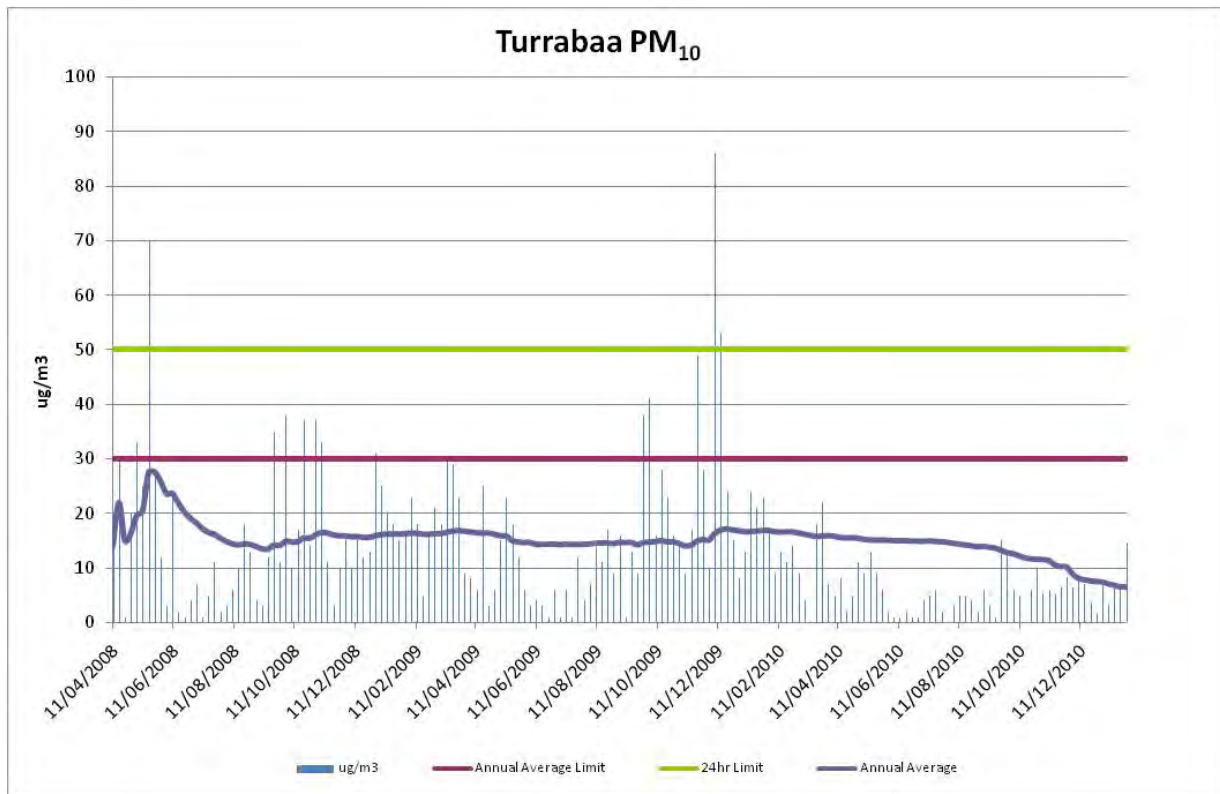
ND5 “Claremont” remains only slightly in exceedance ($4.6 \text{ g/m}^2/\text{month}$) which can be explained by the elevated results over May to July 2010, but in particular the May result of 18.3 which has substantially skewed the annual average. The period of elevated results may have been caused by nearby earthworks at the time. Once the outlying results from this period become redundant the annual average for ND5 is expected to drop below the limit of $4 \text{ g/m}^2/\text{month}$.

High Volume Air Sampling (PM_{10})

PM_{10} measurements taken to date for the “Claremont” High Volume Air Sampler is returning a running annual average of $8.38 \mu\text{g/m}^3$ which is well below the annual average limit of $30 \mu\text{g/m}^3$.



PM_{10} measurements taken to date for the “Turrabaa” High Volume Air Sampler is returning a running annual average of $6.44 \mu\text{g/m}^3$ which is also well below the annual average limit of $30 \mu\text{g/m}^3$.

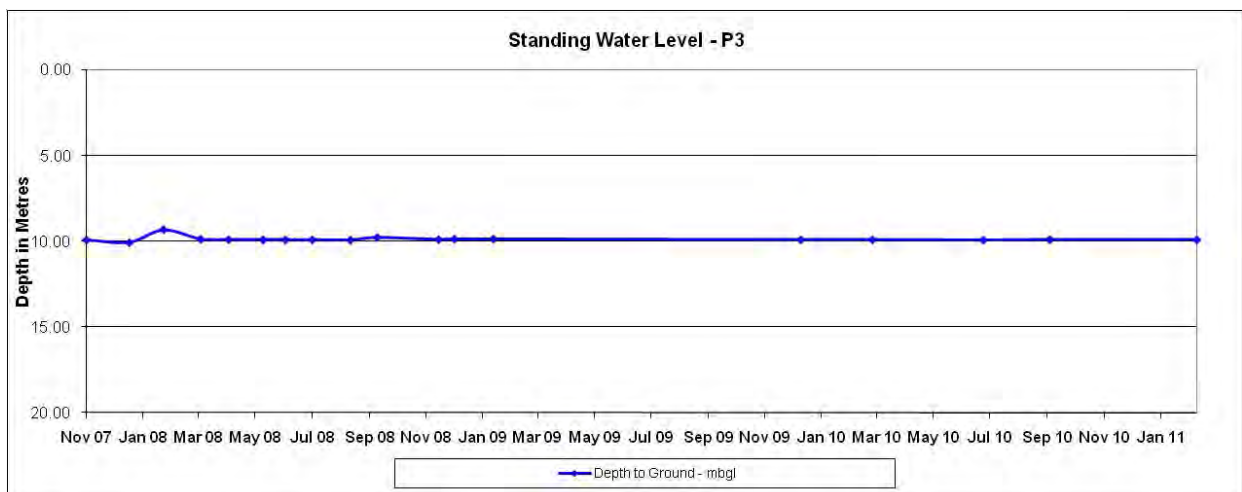
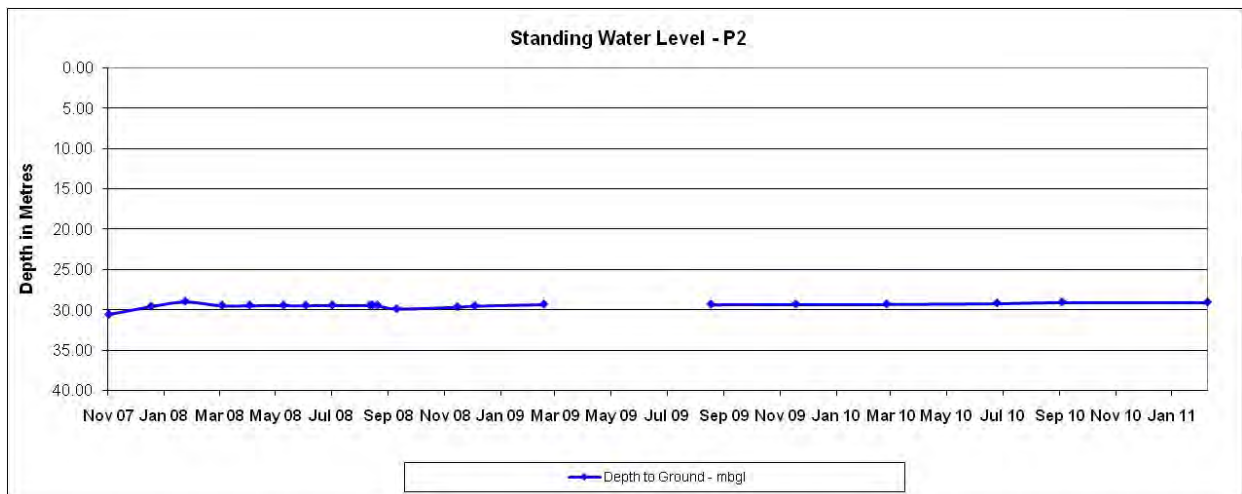
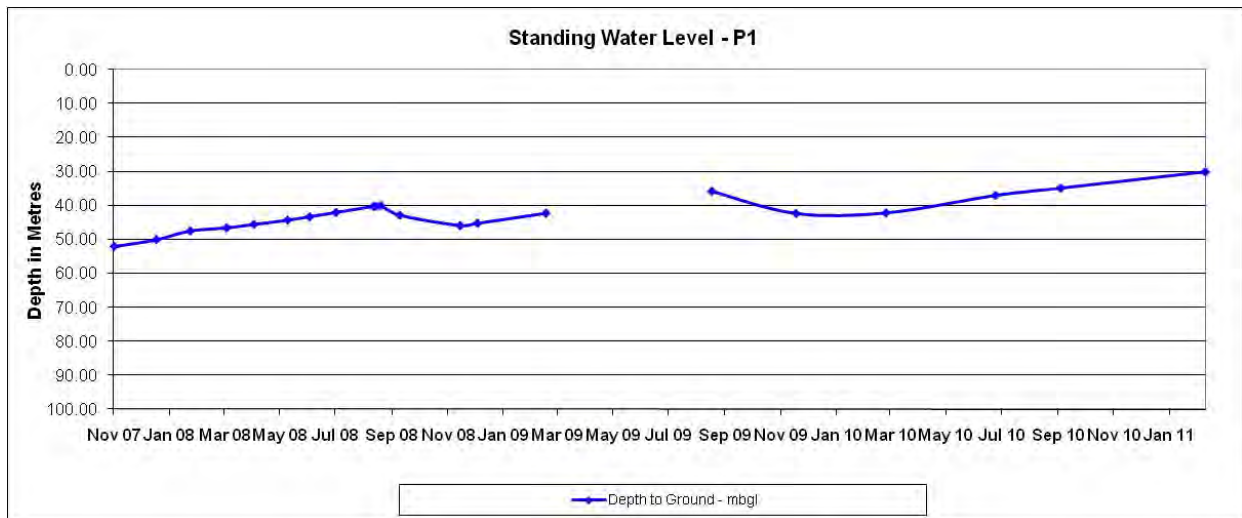


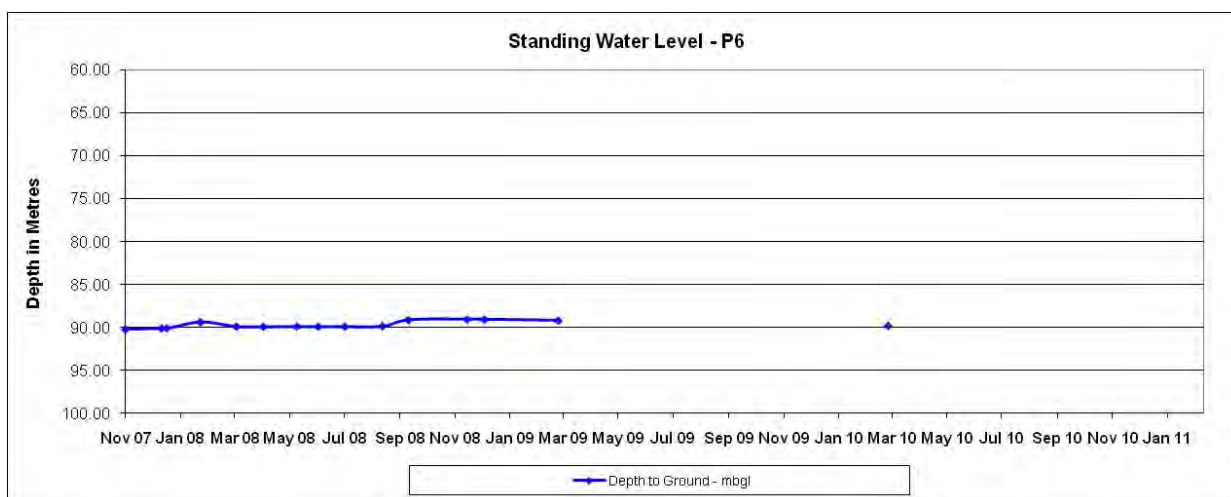
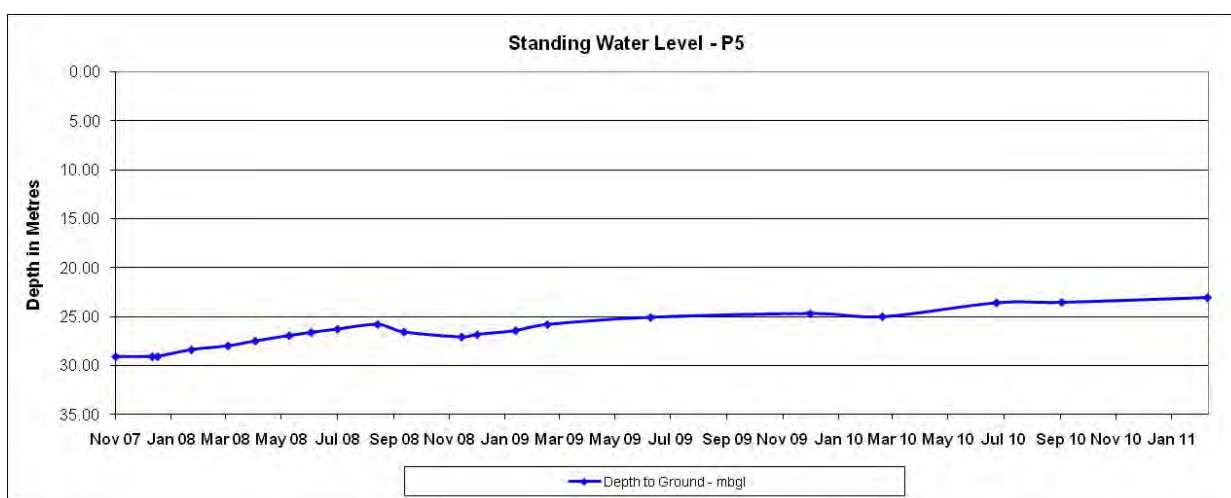
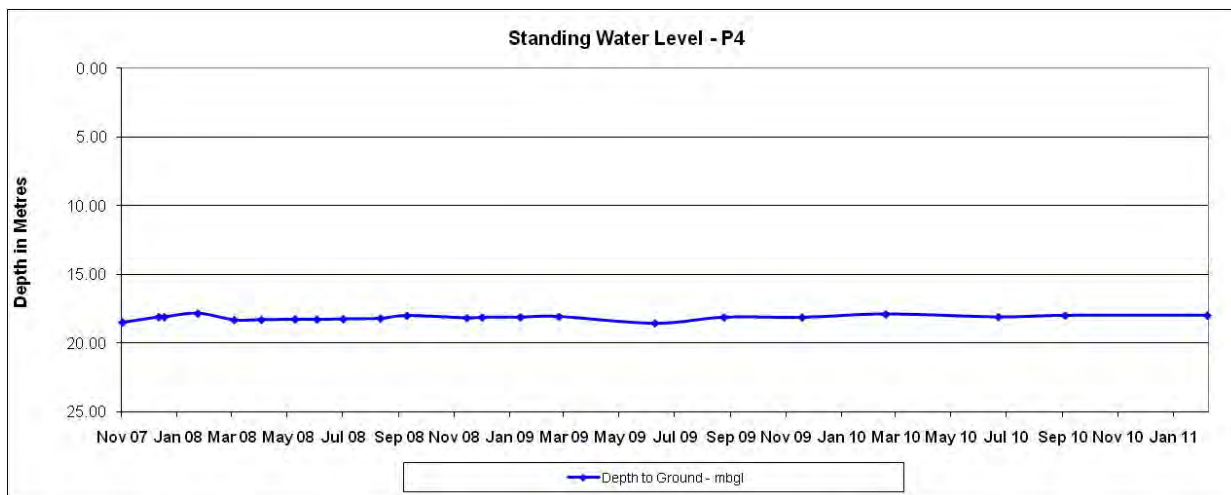
PM₁₀ levels have remained compliant since the last meeting with annual averages at both sites displaying a continued downward trend representative of the previous year.

Groundwater Monitoring

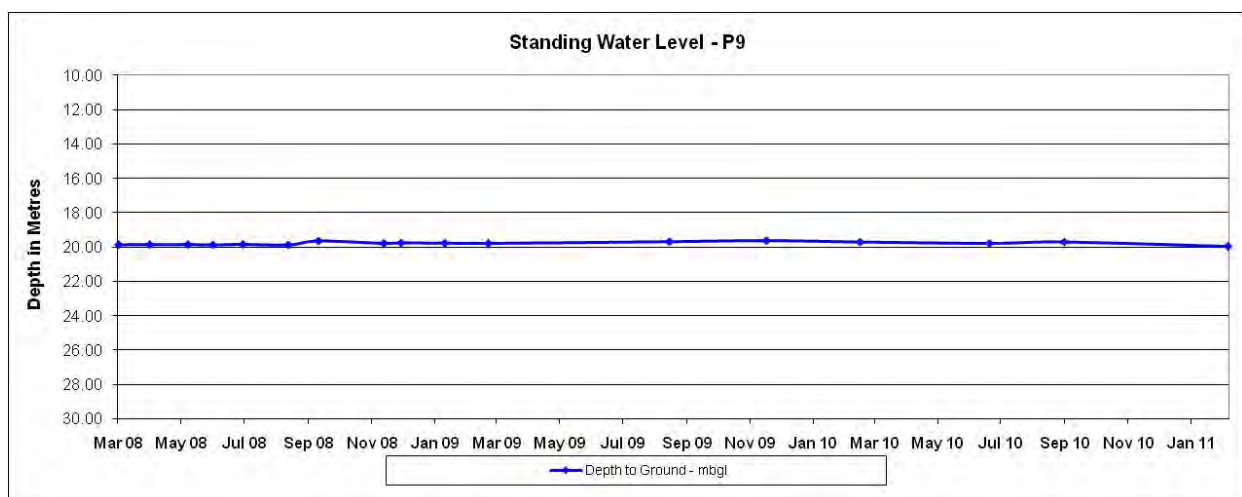
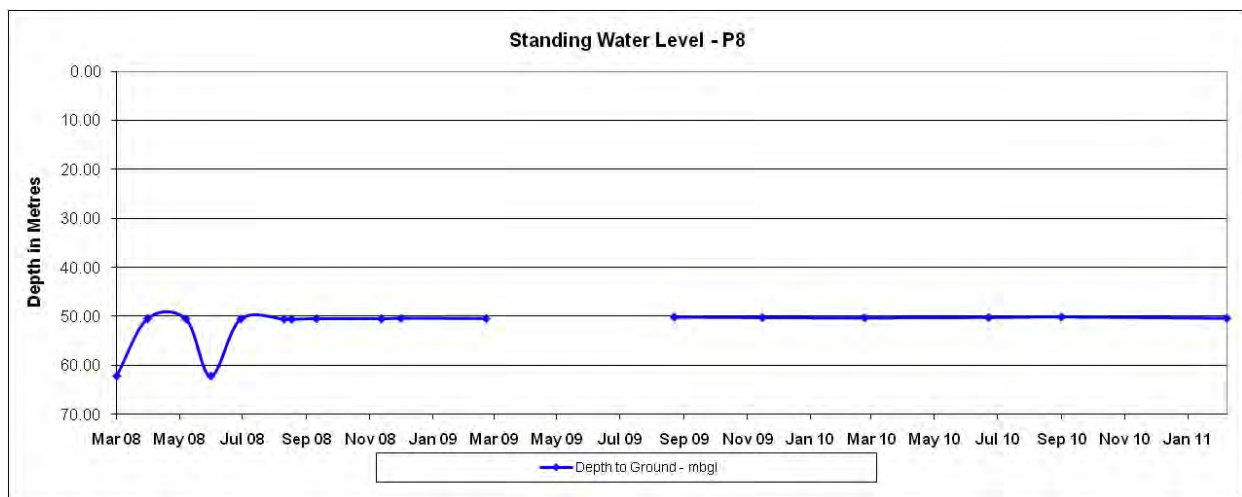
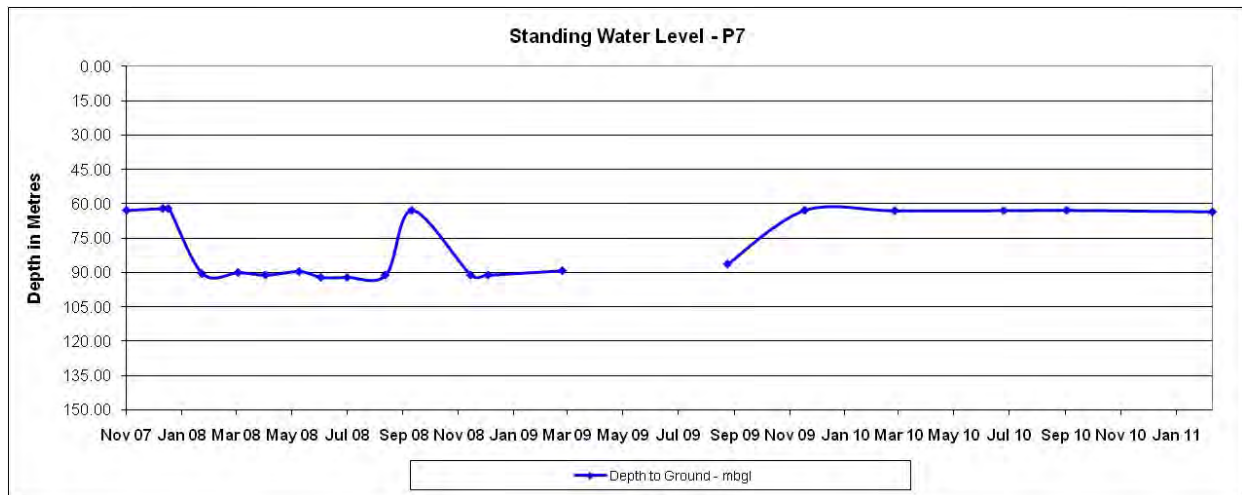
The graphs below show the SWL trends at each site since monitoring commenced. Groundwater levels have remained relatively constant over the last 12 months with the exception of P18 which was recorded dry as of the 10/02/2011. This piezometer is located approximately 1.5km north-east of the surface facilities and is dry due to nearby water extraction from the coal seam. The same result occurred at P20 which is now no longer monitored due to mining activity.

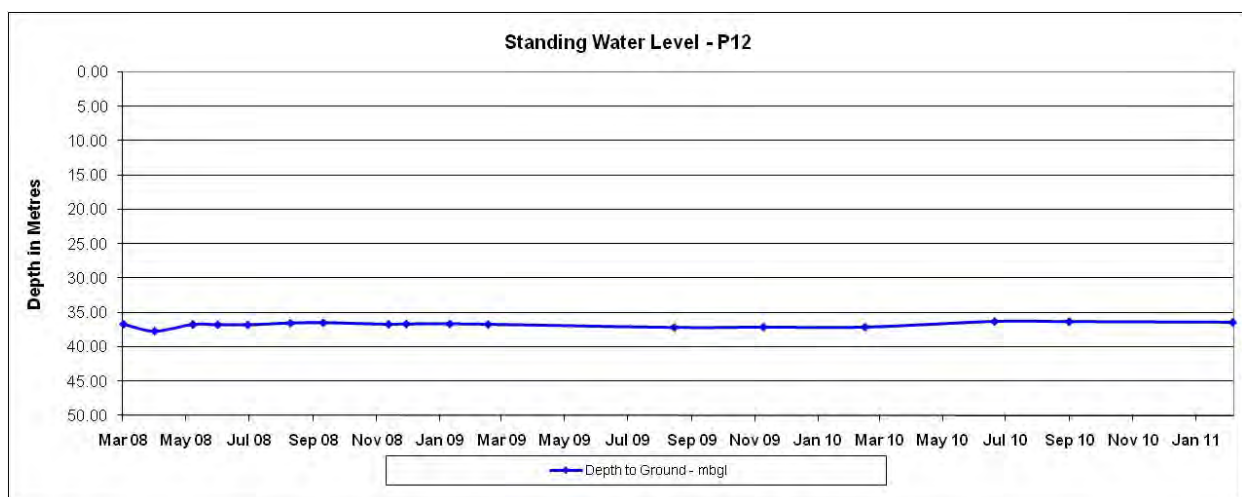
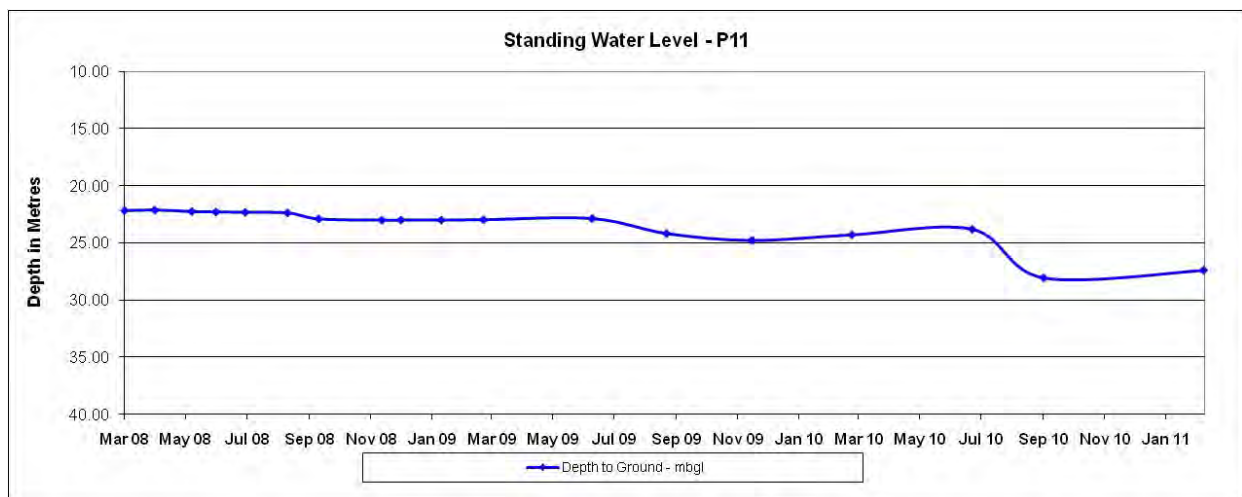
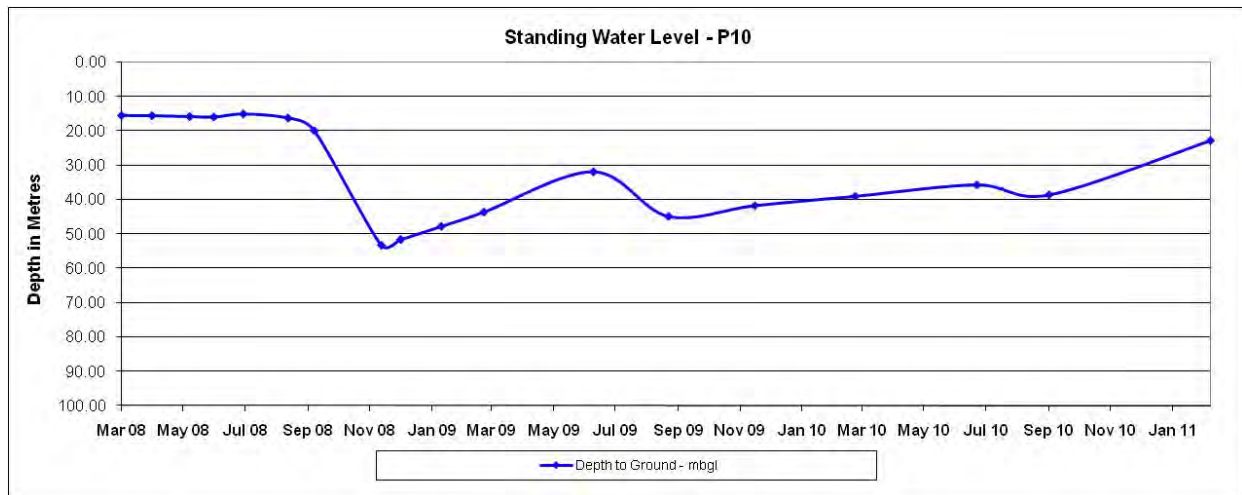
Standing water levels at P1, P10 and P13 have risen by 4.78m, 15.82m and 2.2 m respectively since September 2010. This is thought to be associated with the recharge of groundwater after rainfall events and variations in water pumped from bores for agricultural use. Continued monitoring will determine any future trends with results displayed and discussed in the next report.

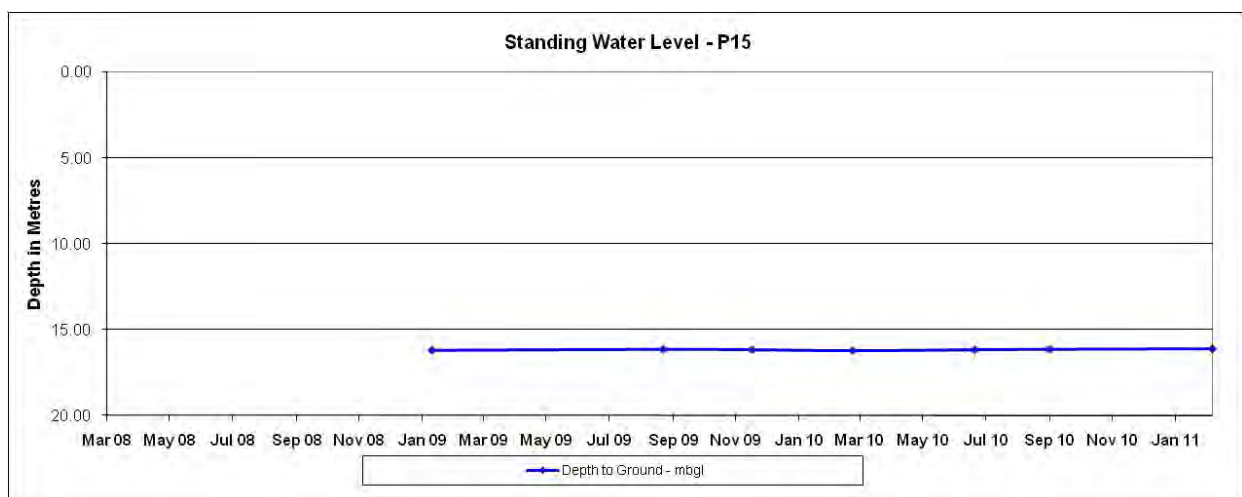
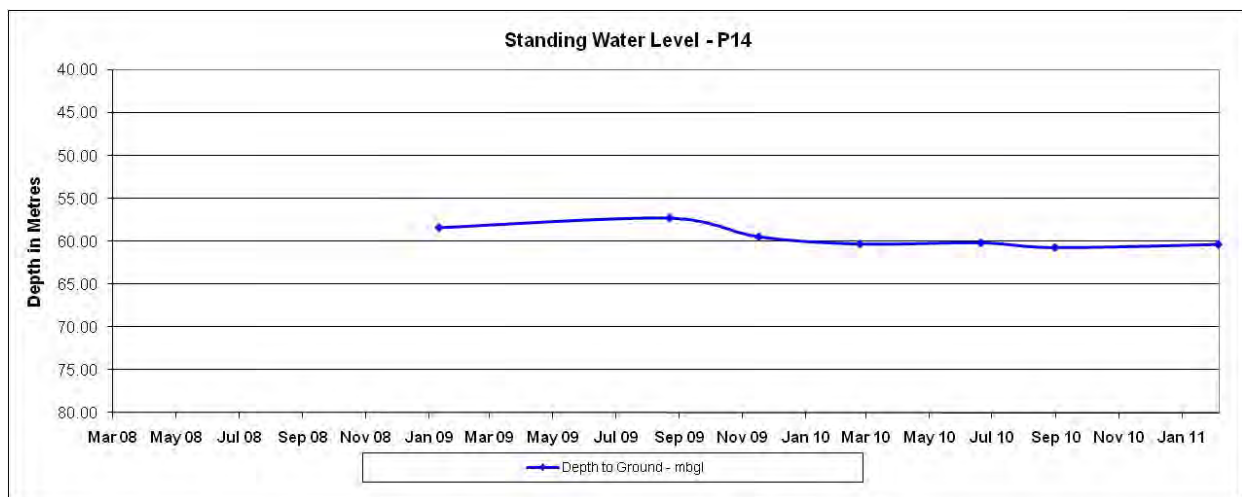
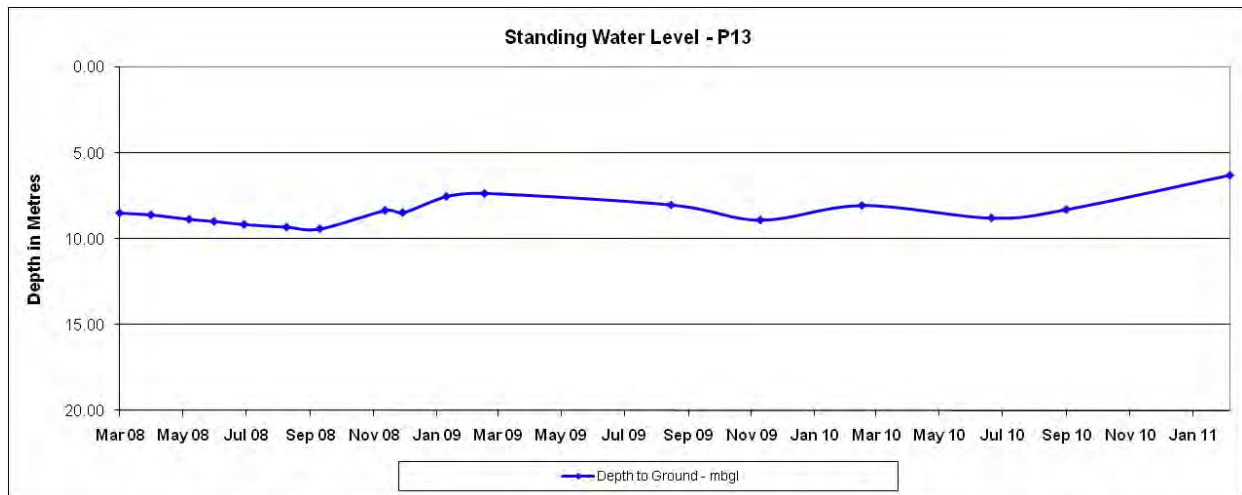


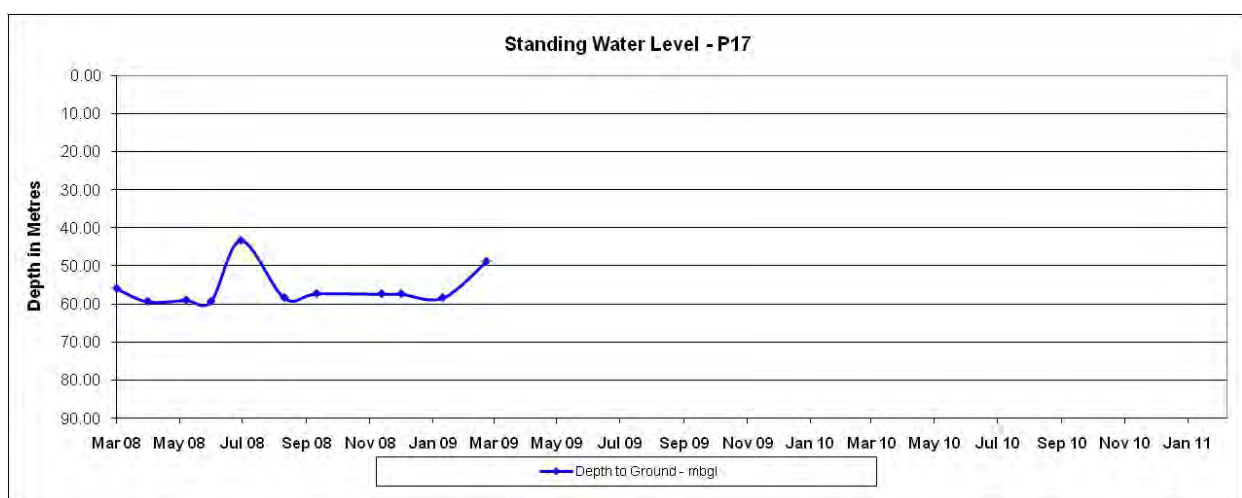
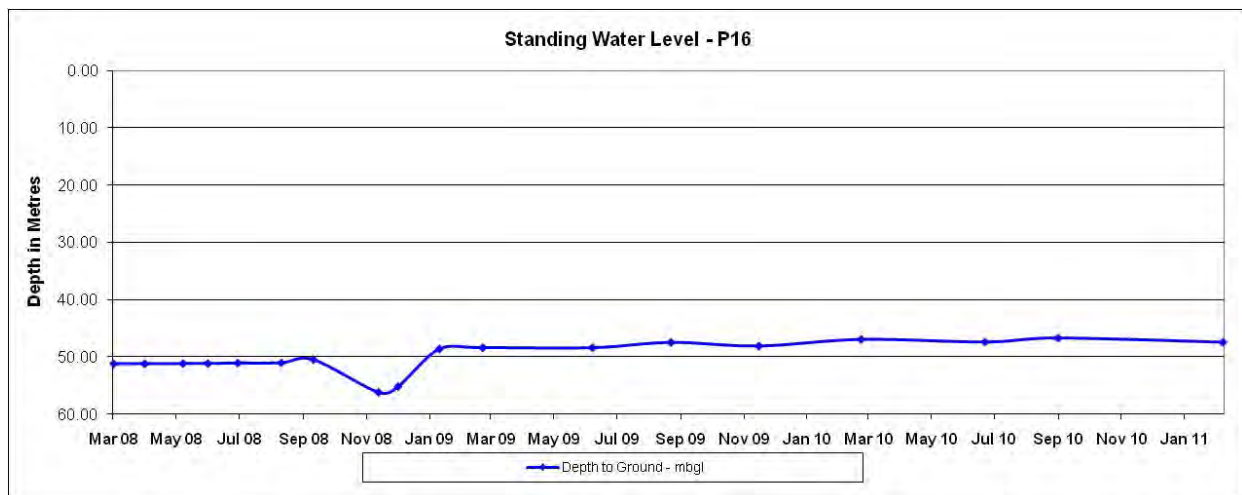


*P6 – Dry

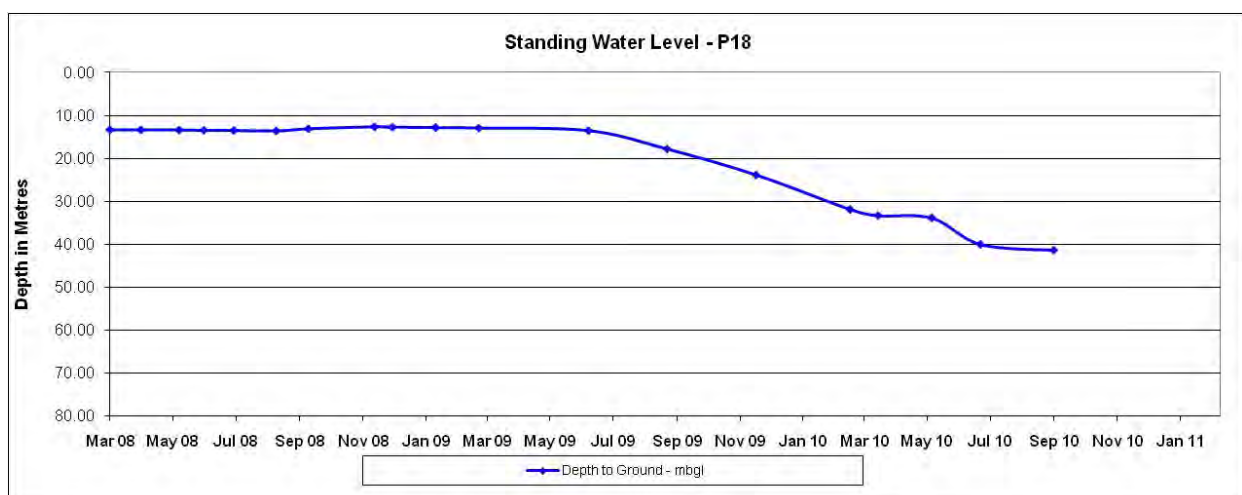




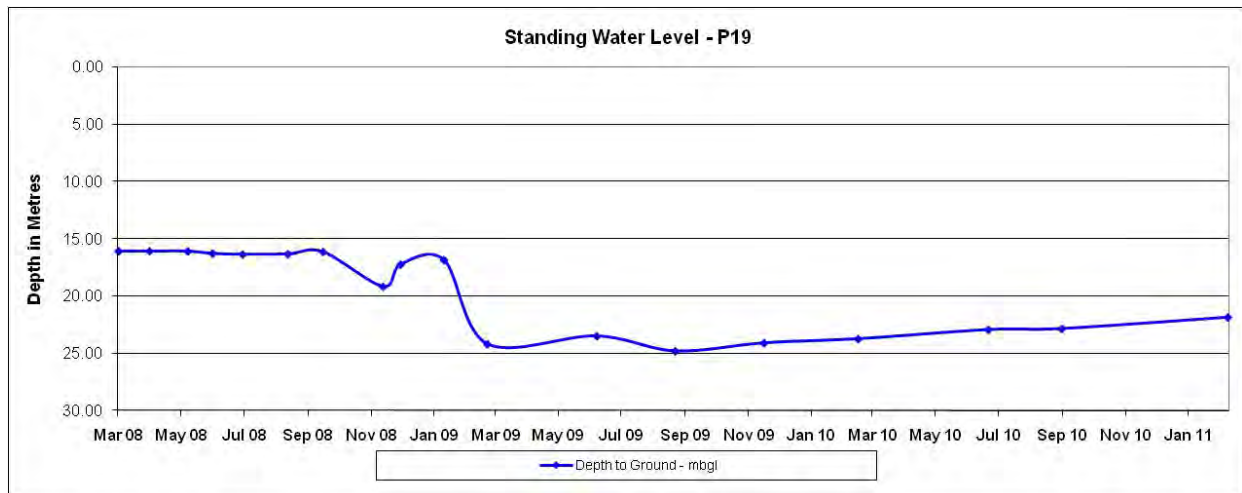




***P17 - Dry**



***P18 - Dry**



Surface Water Monitoring

No wet weather discharges have occurred during the last 3 months. However, monitoring of surrounding creek points whilst they are flowing has occurred to obtain baseline water quality data. Results from the upstream and downstream points remained consistent. A drop in the Total Suspended Solids (TSS) was evident since the last round of monitoring and is most likely due to decreased rainfall allowing further settling time in the creek. The Electrical Conductivity (EC) reading at downstream point KC1DS also dropped significantly from 955 $\mu\text{S}/\text{cm}$ to 150 $\mu\text{S}/\text{cm}$ since the last round of monitoring. No concentration limits apply to these monitoring locations.

Routine monitoring of onsite dams was conducted during December 2010 to obtain background water quality data.. The water quality at licensed discharge points SD2, SD4 and SD5 was acceptable, however the TSS levels at points SD2 & SD4 were above 50mg/L. No concentration limits apply until discharge actually occurs and given reduced rainfall over the period and management of water storages (ie. pumping out discharge dams to avoid discharge) the chances of a discharge event at these points is relatively low. The dams will continue to be monitored and if a discharge event becomes more prominent a liquid flocculent may be used if required to bring TSS levels below criteria.

Complaints

No complaints were received over the period of November 2010 to January 2011. A complaint was received on the 9th March 2011 (outside this reporting period) in relation to what was believed to be a mine related vehicle pulling onto the Highway in front of the School bus causing heavy braking by the bus to avoid collision. This matter was referred to site for contractor managers and supervisors to tool box with those contractors to ensure safe driving practices.

Rehabilitation

160 Native Orange seedlings have been propagated from local seed source and planting of the seedlings has begun around the site. This is the first step towards re-establishing the species within the area.

Independent Environmental Audit

An Independent Environmental Audit was conducted onsite over two days at the beginning of February 2011, as required by the Stage 2 consent. A draft of the audit report has been reviewed by Narrabri Coal personnel and it is expected that the final report will be issued within the next month.

Narrabri Coal is required to submit the audit report to Department of Planning with an action plan to address any non-compliances. The report will be available on the Whitehaven website and a copy will also be issued to the CCC.



Community Consultative Committee Meeting Minutes

Meeting No: 13

Date: 7th June 2011

Time: 4.00pm

Location: Narrabri Coal Operations Site Office

Present:

Terry Miller - Chairman
Peter Webb
Sally Hunter
James Stieger
Greig Duncan (Narrabri Coal Operations General Manager)
Danny Young (Whitehaven Environmental Manager)
Jill Scealy (Whitehaven Environmental Officer)
Shane Pegg (Narrabri Coal Operations Technical Services Manager)
Mereka Smith (Narrabri Coal Operations Administration Assistant)

1.0 Apologies

Mark Foster

2.0 Previous Minutes

Moved: Peter Webb

2.1 Business Arising from Previous Minutes

- 2.1.1** Open Day proposed to take place on Saturday of the October Long Weekend 2011. Advertise the Open Day in the Narrabri Courier around end of July/early August. Open Day will consist of a surface tour of the fan site and construction area and an underground tour. People will have to meet a certain criteria to participate in the underground tour (ie. age limit and mobility requirements).

It is proposed that buses will collect visitors from Narrabri and Boggabri. Terry Miller is going to speak to Penny Phelps, Tourism Manager of Narrabri Shire Council about organising the bookings and to coordinate this all with Mereka Smith.

NCO will approach the Lions Club to provide a BBQ on the Open Day.

Committee to hold a meeting on the 26th July 2011 to discuss details of the Open Day (tour times etc).

Greig Duncan advised Longwall (LW) equipment starts to arrive 4th July and by the end of September the LW will be fully set up on the surface. Once tested, it will be pulled apart and taken underground.

- 2.1.2** Newsletter is in its final stages, almost ready to be printed. Danny Young said the distribution of the newsletter will be to surrounding locals, CCC Members and The Council. Terry Miller suggested placing the newsletter in The Courier. Danny Young to speak to Ian Dunnet at The Courier about placing the newsletter in The Courier. Sally Hunter asked if a few newsletters can be placed at the Baan Baa Pub.
- 2.1.3** Danny Young advised that work is ongoing with cumulative monitoring at Whitehaven's Tarrawonga Mine, Boggabri Coal's mine and Aston Resources' Maules Creek Project. At this stage, the Office of Environment and Heritage (OEH) have not indicated a requirement for a monitoring system at Baan Baa. It was agreed that this item could be removed from the agenda until further developments occur.
- 2.1.4** Jill Scealy advised that she sent a letter to the Council regarding a stop sign to be installed at the Greylands Road/Kamilaroi Highway intersection. Jill received a letter back from Council and they advised that they had inspected the intersection and it is in accordance with the Stop/Give Way regulations and at this stage it doesn't warrant installation of a stop sign. Greig Duncan advised the Committee that the mine is in discussions with the Council about closing Greylands Road so the problem is likely to not exist for much longer.

3.0 General Business

3.1 Construction Progress Report

Greig Duncan provided the following update on construction progress:

- Coal Preparation Plant – 85% complete with commissioning expected at the end of July 2011.
- The shaft is expected to be at final depth next week and the steel lining work will take approximately 2 months. Commissioning is expected in November 2011.
- The longwall parts are currently on their way by ship and will commence arriving in July.
- The reverse osmosis plant is nearly ready for commissioning

3.2 Environmental Overview

As per provided report.

Danny Young advised that Whitehaven had a meeting with OEH and discussed noise dust and visual concerns from the Oakleigh resident. Whitehaven installed rip lines on the property earlier in the year and waited until favourable weather to plant trees. The trees were planted this week and will provide a visual screen from the mine. The real time noise monitor has been moved to the property and a deposited dust gauge installed.

The noise monitor had been at Merrilong for a number of months and no noise issues had been identified.

Danny also noted concerns raised by James Stieger with OEH about a gas alarm at the mine. James told the Committee that the noise of the alarm was the biggest issue but that he was also concerned about the health impacts of gas, especially during inversion conditions as his house is in a lower lying area compared to the mine.

Shane Pegg explained that the alarm was associated with a gas monitor in the reclaim tunnel that conveys coal to the train loadout. The underground coal reclaim tunnel contains gas monitoring equipment to protect mine workers working in the confined space in the event of a build-up of gas within the tunnel. When the gas sensor is activated, an audible alarm sounds through a start-up siren mounted on the belt at the train load out bin.

During the installation and commissioning there was no maintenance program finalized for the gas monitoring system. Over the last several months these gas detectors have drifted out of calibration, and were showing the presence of gas when in fact there were actually negligible gas levels.

When the gas content reaches preset limits an alarm sounds and continues to sound for 10 minutes after which time the siren will stop. Because the gas reading was floating from just below the trigger level to just above the trigger level the alarm kept resetting and restarting again. This resulted in a series of alarms over 2 days.

At the time there was no one available to replace the sensors. The sensors have now been recalibrated and NATA certified. There is a maintenance and inspection program in place to prevent this happening again.

James says he understands that gases disperse but he is concerned that once there is a big stockpile bleeding gases combined with a still morning his house in the hollow will be affected.

Shane explained that the alarm level is set to go off long before a dangerous mixture of gases can build up so that the gasses can be controlled and dispersed. In the same way that the exhaust fumes of a car parked in a small shed will build up and become dangerous over time, seam gases released from the coal can also be hazardous in restricted spaces. Once these gasses are exposed to the open air, they are quickly dispersed and pose no threat either to site personnel or to our immediate neighbours.

James asked if the alarm could be turned down and Shane committed to investigating whether it could or whether a visual alarm could replace it.

4.0 Complaints and Complaints Hotline

As per provided report.

5.0 New Business

Jill Scealy presented the Committee with a copy of the Annual Environmental Management Report (hard copy and CD) A copy of the Annual Environmental Management Report has been provided to relevant Government agencies and Narrabri Shire Council and is available on the Whitehaven website.

Terry Miller raised a concern that the Toll Trucks in Gunnedah are very dirty and would like to see them improved.

Danny Young replied to Terry that this issue is raised at the open cut CCC meetings and that they have raised this issue with Toll. Toll's requirement is to be able to at least read their truck number to allow people to identify specific trucks if they have concerns. Danny will advise Toll of the Committee's concerns.

Sally Hunter asked whether WHC staff will be using the MAC facilities at Narrabri and Boggabri.

Greig Duncan replied that currently NCO have 150 rooms at the Narrabri MAC Camp, contract is for 4 years with the addition of 36 rooms for 2 years. NCO is not involved with the Boggabri Camp. After the 4 year period NCO will still use the facility on an as needed basis (ie. 7 monthly LW face changes and CHPP shutdowns)

James Stieger asked how many contractors/staff?

Greig Duncan replied, 222 underground and 130 on surface.

Sally Hunter asked will the contractors integrate into the community.

Greig Duncan explained the difficulty with integrating contractors and advised that NCO is going to recruit locally, from Gunnedah, Tamworth, Armidale and Narrabri. By 2013 the plan is to reduce dependence on contractors and have a permanent workforce of our own from this area.

6.0 Next Meeting

Tuesday 26th July 2011, 3:30pm, Narrabri Coal Site Office. Site tour to commence at 3:30pm – please arrive at least 15 minutes prior.

7.0 Closure of Meeting

Meeting closed 5:05pm

Narrabri Coal Mine Community Consultative Committee Meeting #13

Environmental Monitoring Report February 2011 – May 2011

Noise Monitoring

Attended noise monitoring was undertaken on the 24th, 25th & 28th of March 2011 to verify if noise levels were within compliance limits. Excessive wind speeds prohibited measurements being taken on the evening of 24th March, therefore the evening survey was conducted on 28th March. The results from this monitoring are detailed in the tables below.

Noise Monitoring Results – 24 March 2010 (Night)				
Location	Time	dB(A) _{Leq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	10:07 pm	43	0.5-1 m/s, W	Traffic (41), insects (38), NCM inaudible
Naroo	10:29 pm	49	0.5-1 m/s, W	Birds & insects (47), traffic (43), NCM inaudible
Claremont*	10:51 pm	41	0.5-1 m/s, W	Birds & insects (40), traffic (28), NCM inaudible
Westhaven	11:15 pm	37	0.5-1 m/s, W	NCM# (35) , insects (33), birds (28)
Greylands	11:41 pm	38	0.5-1 m/s, W	Birds & insects (35), NCM^ (33) , traffic (30)

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

Vent shaft construction associated with NCM

^ Drilling associated with NCM

Noise Monitoring Results – 25 March 2011 (Day)				
Location	Time	dB(A) _{Leq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	9:22 am	50	1-2 m/s, SW	Traffic (49), Birds & insects (42), NCM inaudible
Naroo	9:01 am	43	1-2 m/s, SW	Traffic (41), Birds & insects (39), NCM inaudible
Claremont	8:38 am	26	Calm	Birds & insects (26), NCM inaudible
Westhaven	8:17 am	41	Calm	Birds & insects (40), NCM (34)
Greylands	7:53 am	39	Calm	Birds & insects (35), traffic (34), NCM (33)

Noise Monitoring Results – 28 March 2011 (Evening)				
Location	Time	dB(A) _{Leq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	7:37 pm	49	Calm	Traffic (49), Insects (36), NCM inaudible
Naroo	6:04 pm	48	0.5-1 m/s, S	Car (47), Traffic (32), NCM (<25)
Claremont	6:23 pm	36	0.5-1 m/s, S	Insects (34), Birds (31), NCM barely audible (<20)
Westhaven	6:48 pm	36	Calm	Birds (35), cattle (30), NCM (<25)
Greylands	7:14 pm	36	Calm	Traffic (35), Birds (31), NCM inaudible

The results indicate noise emissions from the mine did not exceed the criterion limit of 35 dB(A), $L_{eq(15min)}$ at any monitoring location. “Westhaven” recorded equal to the limit during the night due to noise generated from vent shaft construction activities. “Westhaven” is a project related property.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) $L_{1(1 min)}$ 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 $L_{1(1 min)}$ noise from the mine did not exceed 45 dB(A) at any monitoring location during the March monitoring.

In addition to the March noise monitoring, attended monitoring was undertaken on Tuesday 24th May 2011. The results from this monitoring are detailed in the tables below. The results indicate noise emissions from the mine did not exceed the criterion limit of 35 dB(A), $L_{eq(15min)}$ at any monitoring location.

Noise Monitoring Results – 24 May 2010 (Day)				
Location	Time	dB(A), L_{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	4:10 pm	57.5	1-2 m/s, W	Traffic (57), NCM (31)
Naroo	3:12 pm	42.7	1-2 m/s, W	Traffic (39), Birds (38), Wind (33), NCM inaudible
Claremont*	3:31 pm	39.8	2-3 m/s, NW	Sheep (37), Birds (34), NCM¹ (29)
Westhaven	3:50 pm	34.4	1-2 m/s, W	NCM²(32) , Wind (29)
Greylands	2:31 pm	34.6	1-2 m/s, W	NCM³ (31) , Birds (28), traffic (27)

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

¹ Vent shaft construction associated with NCM

² Gas drainage pumps associated with NCM

³ Drilling associated with NCM.

Noise Monitoring Results – 24 May 2011 (Evening)				
Location	Time	dB(A), L_{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	8:09 pm	56.0	1-2 m/s, W	Traffic (56), NCM (31)
Naroo	6:19 pm	51.0	1-2 m/s, W	Birds (50), Traffic (44), NCM inaudible
Claremont	6:44 pm	36.6	2-3 m/s, W	Birds (32), Wind (31), NCM¹ (29)
Westhaven	7:15 pm	32.8	1-2 m/s, W	NCM (32) , Wind (26)
Greylands	7:52 pm	37.1	1-2 m/s, W	Traffic (35), NCM (31) , Wind (28)

Noise Monitoring Results – 24 May 2010 (Night)				
Location	Time	dB(A), L_{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	10:16 pm	48.3	1-2 m/s, W	Traffic (48), NCM (30)
Naroo	10:43 pm	46.6	1-2 m/s, W	Birds (46), traffic (37), NCM inaudible
Claremont	11:03 pm	34.3	1-2 m/s, W	Sheep (34), NCM (28)
Westhaven	11:24 pm	32.8	1-2 m/s, W	NCM (31) , Wind (27)
Greylands	12:14 am	34.7	1-2 m/s, W	Traffic (33), NCM (29)

Deposited Dust Monitoring

Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarah	ND7 Claremont	ND8 Claremont	ND4a New Matoppo
May 2010	1.3	2.2	1.0	8.0	18.3	3.3	1.6	1.0	
June 2010	1.0	1.4	4.8	16.0	7.8	2.2	3.0	1.2	
July 2010	1.4	0.8	3.0	21.0	4.2	0.6	11.1	0.9	
August 2010	0.6	1.6	4.7	19.4	1.7	1.0	0.6	0.4	
September 2010	0.9	2.0	2.8	17.9	4.7	0.5	3.2	0.9	
October 2010	0.7	4.9	1.0	24.9	3.2	1.4	0.9	0.8	
November 2010	1.1	2.3	0.3	27.3	3.6	4.1	2.2	0.5	
December 2010	1.5	4.4	3.2	8.3	4.1	0.8	3.1	1.4	
January 2011	1.1	4.4	0.7	0.1	2.1	7.1	3.7	0.9	
February 2011	1.1	2.5	0.5	1.5	4.0	2.1	2.3	2.6	3.6
March 2011	1.4	1.6	2.5	3.0	46.6	5.0	1.6	2.1	3.2
April 2011	0.6	1.8	3.6	5.0	3.8	0.8	1.0	0.7	1.8
Annual Average	1.1	2.5	2.3	12.7	8.7	2.4	2.9	1.1	2.9

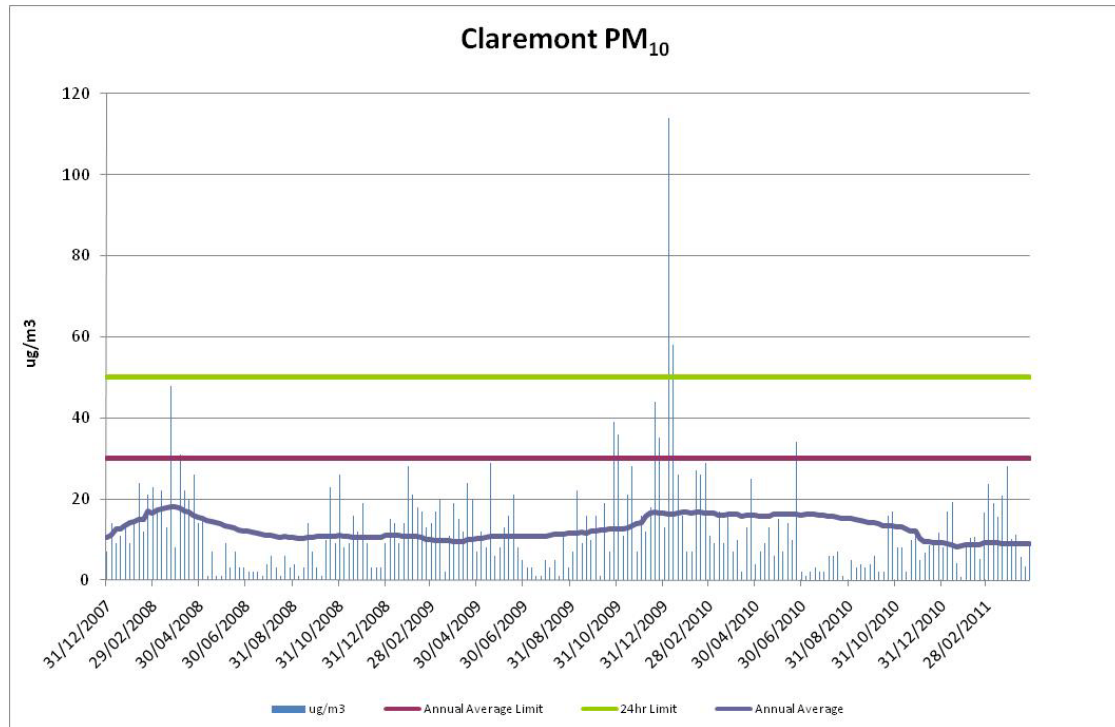
Deposited dust results have remained at relatively low levels since the last meeting, with the exception of ND4 Matoppo and ND5 Claremont. These are the only two sites that remain above the annual average limit of 4 g/m²/month.

ND4 at “Matoppo” has returned elevated dust levels since January 2010. As previously discussed a drum located in close proximity to the dust gauge used for burning household materials was thought to be the cause of earlier elevated levels. The drum was moved in July 2010 and with the approval of the residents a second deposited dust monitor (ND4a) was placed in a new location at “Matoppo” during January 2011. The new monitor is further away from the house and in closer proximity to the pit top area of the mine site, providing a good comparison from the original monitor. The results recorded in February 2011 and March 2011 remained low at both the original ND4 and new ND4a locations, while in April 2011 a significantly lower result was recorded at ND4a. It is expected that once the elevated results received between June 2010 and December 2010 have become redundant, ND4 will return to an annual average of below 4 g/m²/month.

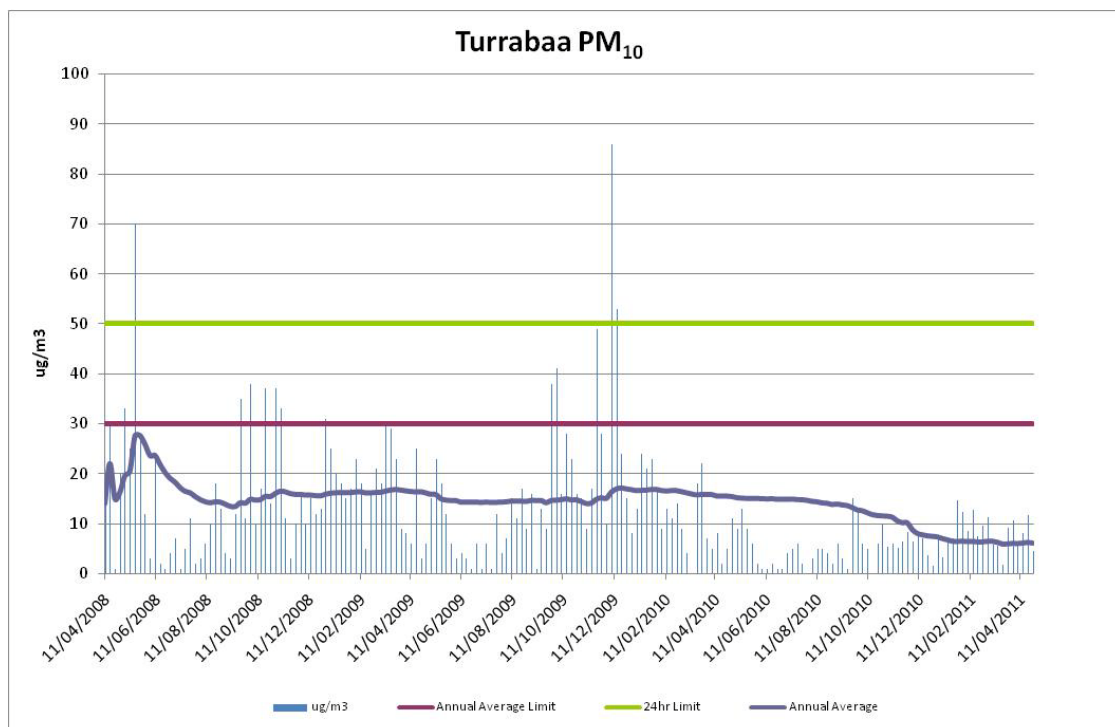
An elevated result of 46.6 g/m²/month in March 2011 has caused an increase in the annual average limit at ND5 Claremont. Although there has been increased activity in the area due to amenity bund construction, the elevated result is thought to be caused by contamination of the sample. This is evident with the February 2011 and April 2011 results from ND5 returning much lower readings (4 g/m²/month and 3.8 g/m²/month respectively), despite similar activities occurring over these months. Continued monitoring should further demonstrate this evidence.

High Volume Air Sampling (PM₁₀)

PM₁₀ measurements taken to date for the “Claremont” High Volume Air Sampler are returning a running annual average of 8.88 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 are returning a running annual average of 6.11 µg/m³ which is also well below the annual average limit of 30 µg/m³.



PM₁₀ levels have remained compliant since the last meeting with annual averages at both sites displaying a continued downward trend.

Groundwater Monitoring

The next round of groundwater monitoring is to be completed within the coming weeks of June 2011. Updated Standing Water Level (SWL) graphs will be provided at the next CCC meeting.

Surface Water Monitoring

No wet weather discharges have occurred during the last 3 months and no flows occurred in surrounding creek points.

Routine monitoring of onsite dams occurred on the 10th February and 4th May 2011 to obtain background water quality data. The water quality at licensed discharge points was within the discharge criteria for Total Suspended Solids, Oil and Grease and pH. This combined with reduced rainfall over the period and effective management of water storages (ie. pumping out discharge dams to avoid discharge) has resulted in no issues with surface water. The dams will continue to be monitored, particularly during heavy rainfall events to ensure that any future issues are dealt with accordingly.

Complaints

No complaints have been received since the last CCC meeting.

Rehabilitation

Tree planting has continued to be carried out along the Kurrajong Creek access road. Progressive rehabilitation of drilling sites with a winter pasture mix of rye grass, arrow leaf clover and oats has also continued over the period.

Independent Environmental Audit

An Independent Environmental Audit was conducted onsite over two days at the beginning of February 2011, as required by the Stage 2 consent. The final audit report has been received by Narrabri Coal personnel who are now working on an action plan to address items raised in the audit for referral to the Department of Planning.

Upon acceptance of the audit report and action plan by the Department of Planning, the report will be available on the Whitehaven website and a copy will also be issued to the CCC.

Community Consultative Committee Meeting Minutes

Meeting No: 14

Date: 26th July 2011

Time: 4.30pm

Location: Narrabri Coal Operations Site Office

Present:

Terry Miller - Chairman
Sally Hunter
Peter Webb
James Stieger
Greig Duncan (Narrabri Coal Operations General Manager)
Tim Muldoon (Whitehaven Community Liaison Officer)
Steve Farrar (Narrabri Coal Operations Environmental Officer)
Shane Pegg (Narrabri Coal Operations Technical Services Manager)
Mereka Smith (Narrabri Coal Operations Administration Assistant)

1.0 Apologies

Mark Foster

2.0 Previous Minutes

Moved: James Stieger

2.1 Business Arising from Previous Minutes

2.1.1 Open Day date has been moved to Saturday 29th October 2011 due to the Long Wall deliver date being delayed by a few weeks. The Open Day will run from 9:00am to 4:00pm. Advertisement of the Open Day will be in The Courier, The Life Magazine, Namoi Valley Independent and The Daily Leader. In the advertisement we address safety requirements and if people wish to take the underground tour they must register at The Narrabri Tourist Information Centre for health and safety reasons.

Terry Miller suggested we invite Ian Dunnet from The Courier out to site, to take various photos and produce an article on our Open Day to be placed in The Courier in the coming weeks to promote the Open Day.

Penny Phelps, Tourism Manager of Narrabri Shire Council will meet with the Open Day Committee in August to discuss the Tourist Information's involvement for the Open Day.

Morning tea, BBQ lunch, afternoon tea and refreshments will be provided. NCO to approach the Narrabri Lions Club to provide a BBQ on the Open Day.

Free buses will collect visitors from Narrabri and Boggabri, starting at around 9:00am and go through to 2:30pm. Buses coming from Boggabri will pick up any visitors from Baan Baa on the way. The times buses will leave each destination will be available from Narrabri Tourist Information Centre. No private vehicles will be granted access to site. All transport to site will be by the buses provided.

From the site tour today, it was calculated that the site tour for the Open Day will be a maximum 1.15hrs.

2.1.2 Newsletter will hopefully be out next week.

2.1.3 Shane Pegg investigated the lowering of the alarm in the reclaim tunnel and the option of replacing it. Shane found out that they cannot physically turn the volume down on the alarm. His solution is to relocate the alarm to another area. This will be done in the next couple weeks.

2.1.4 Danny Young raised the concern with Toll's John Molloy to address and maintain the trucks in as clean a state as possible.

3.0 General Business

3.1 Construction Progress Report

Greig Duncan provided the following update on construction progress;

- Long Wall (LW) parts will start arriving at end August. LW will be completed by end of November 2011 and be operational in mid February 2012.
- Coal Preparation Plant is expected to be commissioned at end August 2011.
- Steel lining of the shaft is 1/3 completed, and commissioning is expected in November 2011.
- The reverse osmosis plant is ready for commissioning.

3.2 Environmental Overview

As per provided report.

4.0 Complaints and Complaints Hotline

As per provided report.

5.0 New Business

Terry Miller asked about Narrabri Coal's local workforce numbers.

Greig Duncan replied that currently have 105 employed from the Gunnedah Basin, and by June 2013 Narrabri Coal will be fully staffed from the Gunnedah Basin.

6.0 Next Meeting

Tuesday 4th October 2011, 4:00pm, Narrabri Coal Site Office.

7.0 Closure of Meeting

Meeting closed 4:55pm

Narrabri Coal Mine Community Consultative Committee Meeting #14

Environmental Monitoring Report May 2011 – June 2011

Noise Monitoring

Attended noise monitoring was undertaken on the 29th June 2011 to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

Noise Monitoring Results – 29 June 2011 (Day)				
Location	Time	dB(A) _{Leq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	5:08 pm	52.7	2-3 m/s, SE	Traffic (52), Wind (42), NCM (<30)
Naroo	4:46 pm	44.3	2-3 m/s, SE	Wind (41), traffic (40), NCM inaudible
Claremont*	3:57 pm	41.1	2-3 m/s, SE	Wind (38), Birds (38), NCM¹ (25)
Westhaven	4:21 pm	33.6	2-3 m/s, SE	Wind (33), NCM² (<30)
Greylands	2:31 pm	36.7	2-3 m/s, SE	Wind (34), traffic (33), NCM³ (28)

Noise Monitoring Results – 29 June 2011 (Evening)				
Location	Time	dB(A) _{Leq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	9:21 pm	54.6	2-3 m/s, SE	Traffic (54), Wind (41), NCM (<25)
Naroo	7:24 pm	46.5	2-3 m/s, SE	Traffic (43), Wind (42), NCM inaudible
Claremont	7:55 pm	39.4	2-3 m/s, SE	Wind (37), Birds (33), NCM¹ (<25)
Westhaven	8:23 pm	35.3	2-3 m/s, SE	Wind (35), NCM (25)
Greylands	8:58 pm	37.1	2-3 m/s, SE	Wind (28), traffic (35), NCM (31)

Noise Monitoring Results – 29 June 2011 (Night)				
Location	Time	dB(A) _{Leq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	11:41 pm	54.4	1-2 m/s, SE	Traffic (54), Wind (42), NCM (<25)
Naroo	10:04 pm	42.5	1-2 m/s, SE	Wind (40), Traffic (38), NCM inaudible
Claremont	10:28 pm	37.8	1-2 m/s, SE	Wind (37), NCM (<25)
Westhaven	10:55 pm	34.2	1-2 m/s, SE	Wind (33), NCM (28)
Greylands	11:19 pm	36.4	1-2 m/s, SE	Traffic (33), Wind (32), NCM (30)

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

¹Vent shaft construction associated with NCM

²Gas drainage pumps associated with NCM

³Surface Facilities associated with NCM

The results indicate noise emissions from the mine did not exceed the criterion limit of 35 dB(A), $L_{eq(15min)}$ at any monitoring location during the monitoring period.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) $L_{1(1 min)}$ 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 $L_{1(1 min)}$ noise from the mine did not exceed 45 dB(A) at any monitoring location during the June monitoring.

The June monitoring also assessed the incidence of temperature inversions by release of a helium filled balloon attached to a string line to measure temperature at elevation. At the time of measurement, no significant temperature inversion was present with no impact on noise propagation.

The real time noise monitor is currently situated at the “Oakleigh” property with results to date indicating no noise exceedance events.

Deposited Dust Monitoring

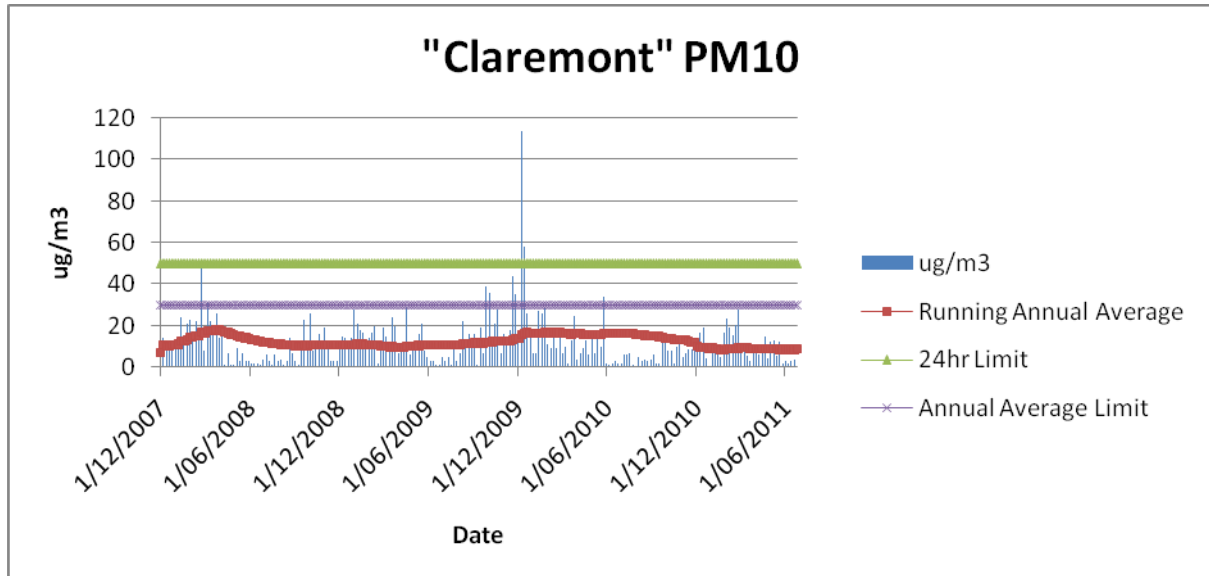
Month	ND1 Turabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarah	ND7 Claremont	ND8 Claremont	ND4a New Matoppo	ND9 Oakleigh
July 2010	1.4	0.8	3.0	21.0	4.2	0.6	11.1	0.9		
August 2010	0.6	1.6	4.7	19.4	1.7	1.0	0.6	0.4		
September 2010	0.9	2.0	2.8	17.9	4.7	0.5	3.2	0.9		
October 2010	0.7	4.9	1.0	24.9	3.2	1.4	0.9	0.8		
November 2010	1.1	2.3	0.3	27.3	3.6	4.1	2.2	0.5		
December 2010	1.5	4.4	3.2	8.3	4.1	0.8	3.1	1.4		
January 2011	1.1	4.4	0.7	0.1	2.1	7.1	3.7	0.9		
February 2011	1.1	2.5	0.5	1.5	4.0	2.1	2.3	2.6	3.6	
March 2011	1.4	1.6	2.5	3.0	46.6	5.0	1.6	2.1	3.2	
April 2011	0.6	1.8	3.6	5.0	3.8	0.8	1.0	0.7	1.8	
May 2011	0.1	0.4	1.8	7.8	3.3	0.8	0.8	0.4	1.1	
June 2011	0.8	0.9	2.2	48.1	4.0	1.5	1.3	3.1	4.3	0.8
Annual Average	0.9	2.3	2.2	15.3	7.1	2.3	2.6	1.2	2.8	0.8

Deposited dust results have remained at relatively low levels since the last meeting, with the exception of ND4 Matoppo which returned a result during June of 48.1g/m²/month which has again adversely affected the annual average. All other annual average results have generally declined.

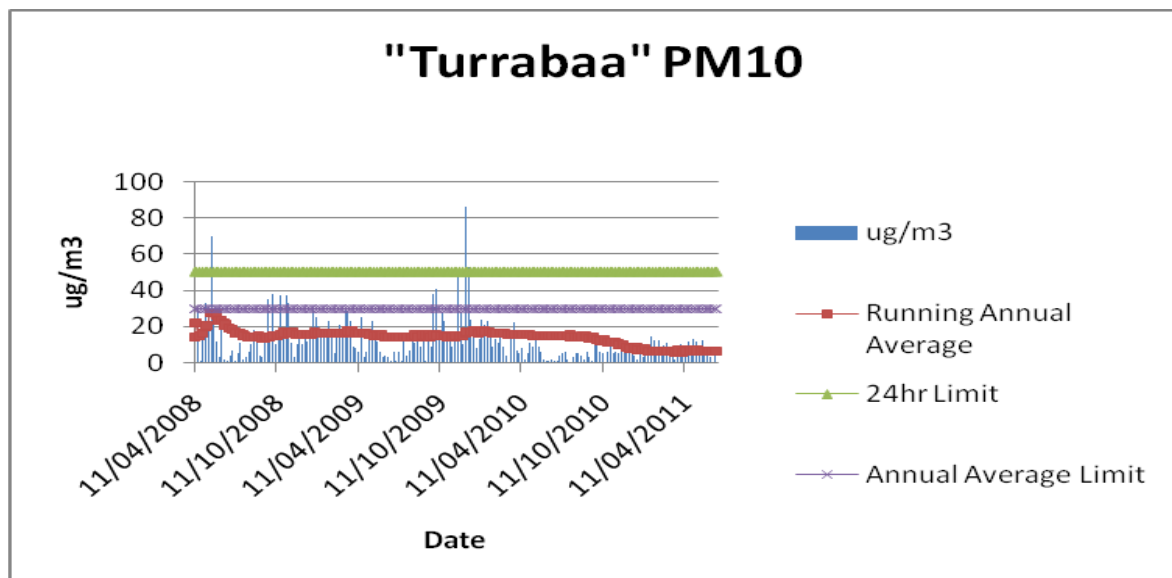
The new monitor at ND4a at “Matoppo” and in closer proximity to site operations continues to demonstrate consistently lower results as compared to ND4 indicative of other factors influencing the ND4 result. Monitor ND9 was also established at “Oakleigh” with first results indicating deposited dust levels well within compliance limits.

High Volume Air Sampling (PM₁₀)

PM₁₀ measurements taken to date for the “Claremont” High Volume Air Sampler are returning a running annual average of 8.63 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 are returning a running annual average of 6.53 µg/m³ which is also well below the annual average limit of 30 µg/m³.

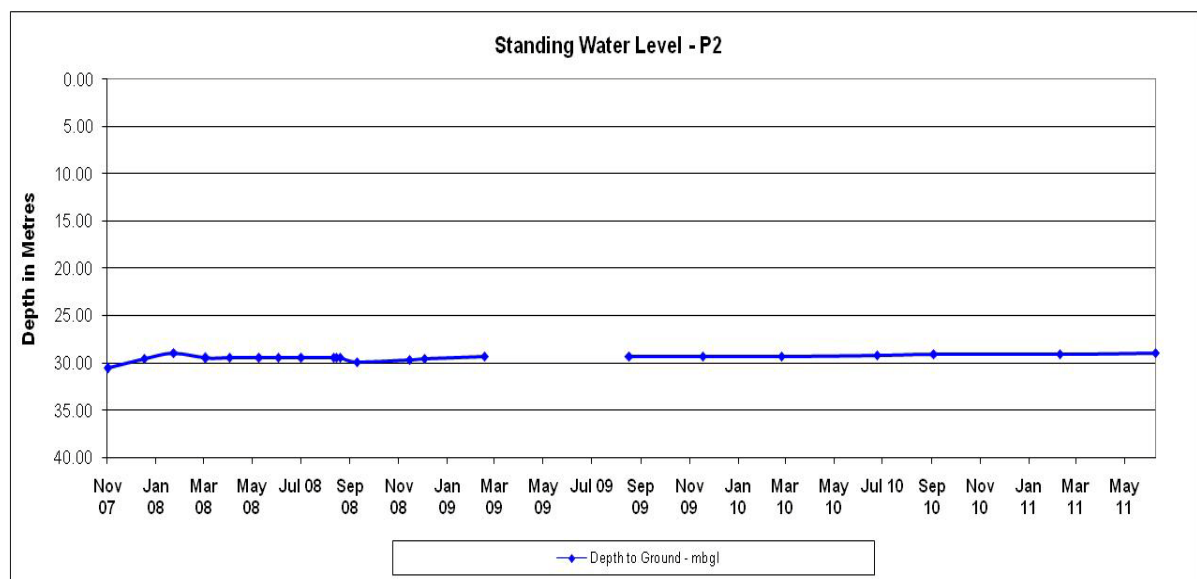
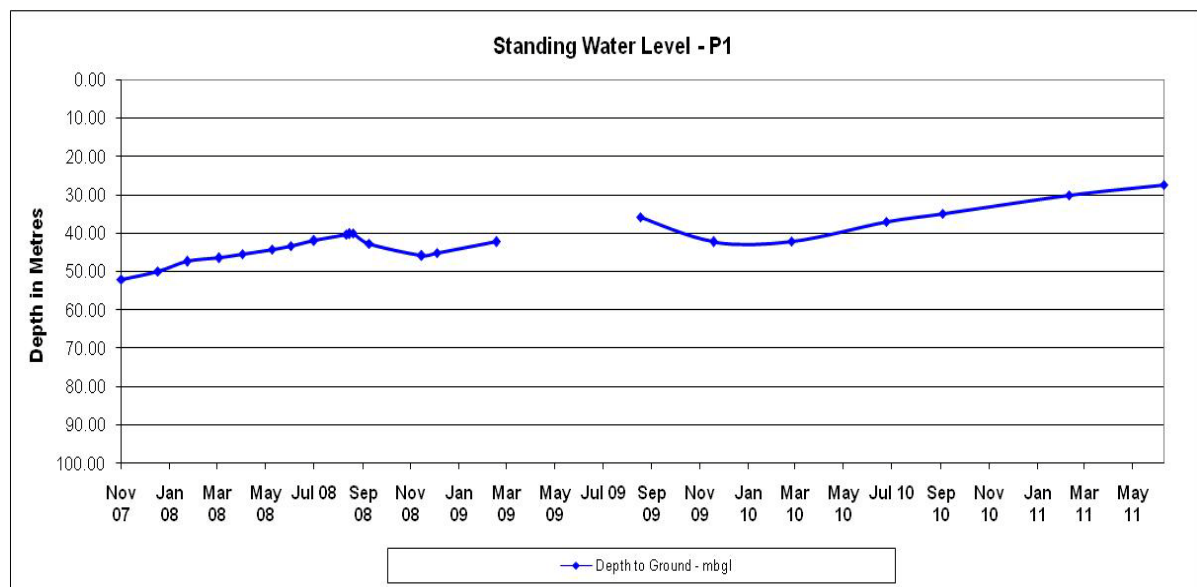


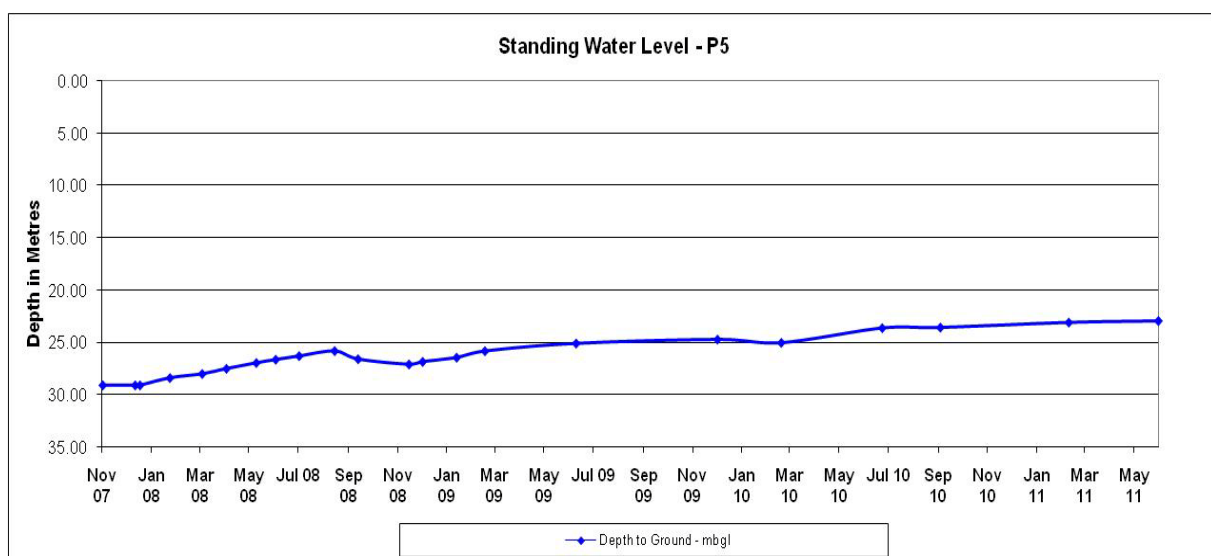
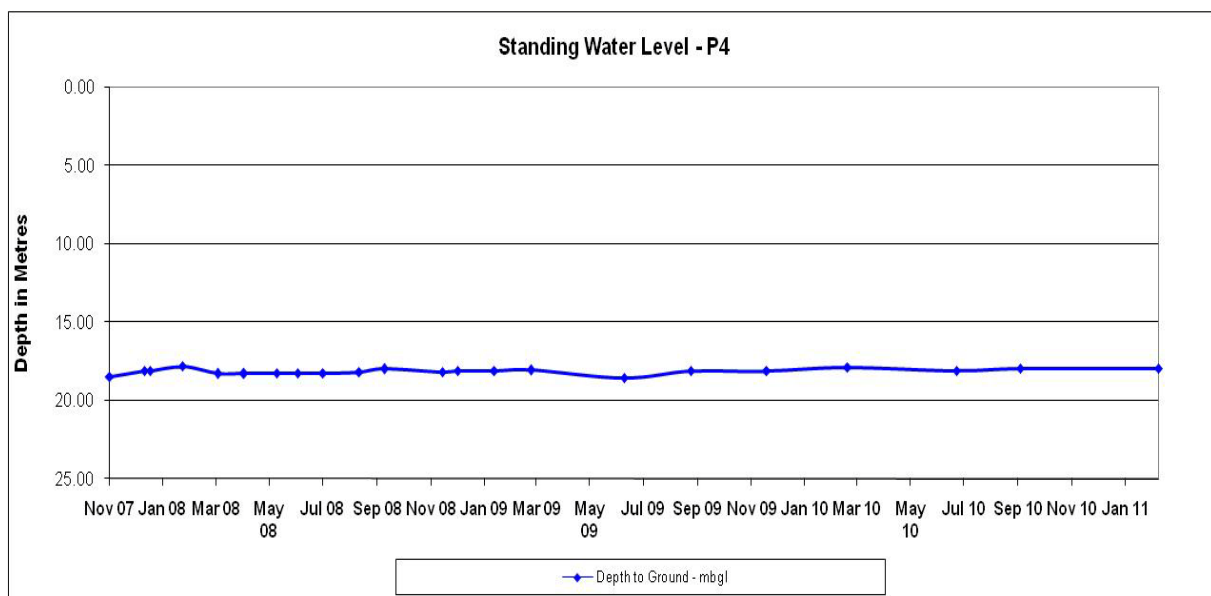
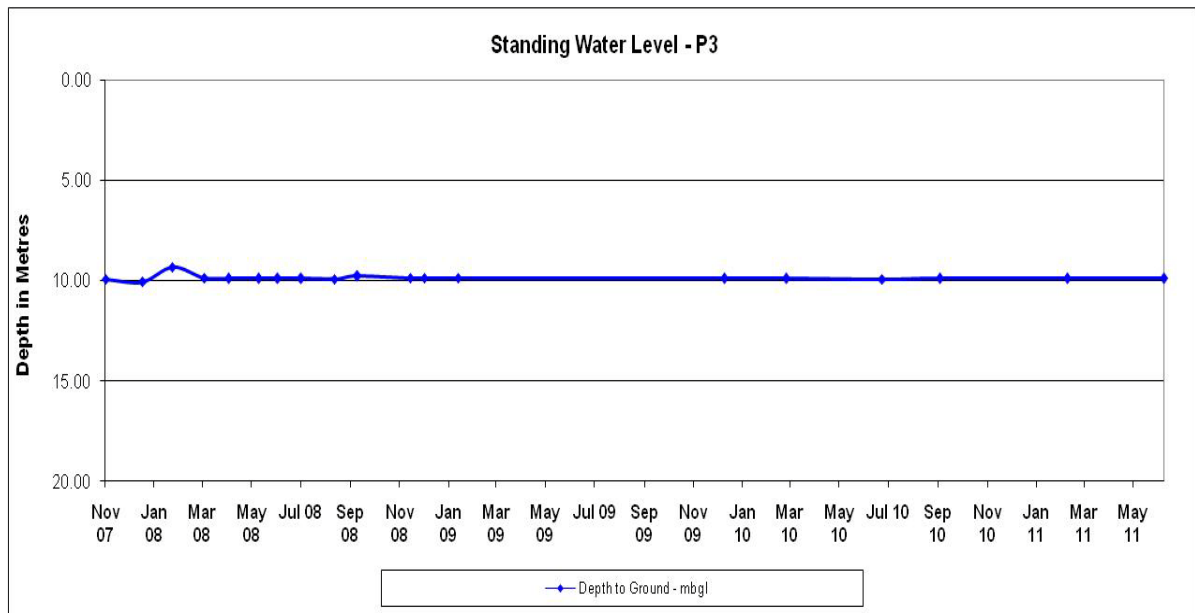
PM₁₀ levels have remained compliant since the last meeting with annual averages at both sites displaying a continued downward trend.

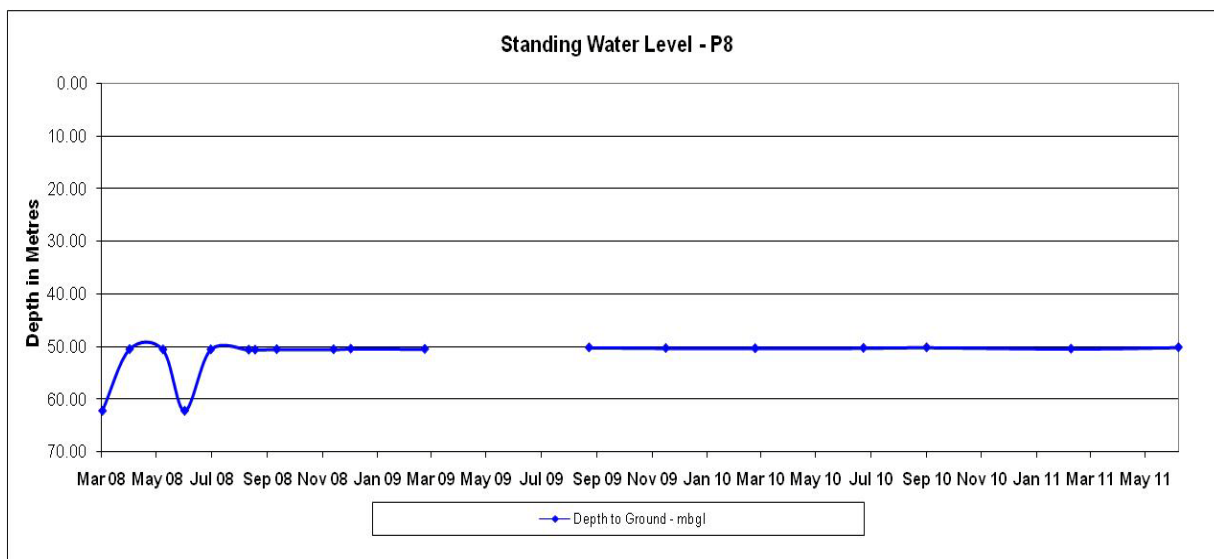
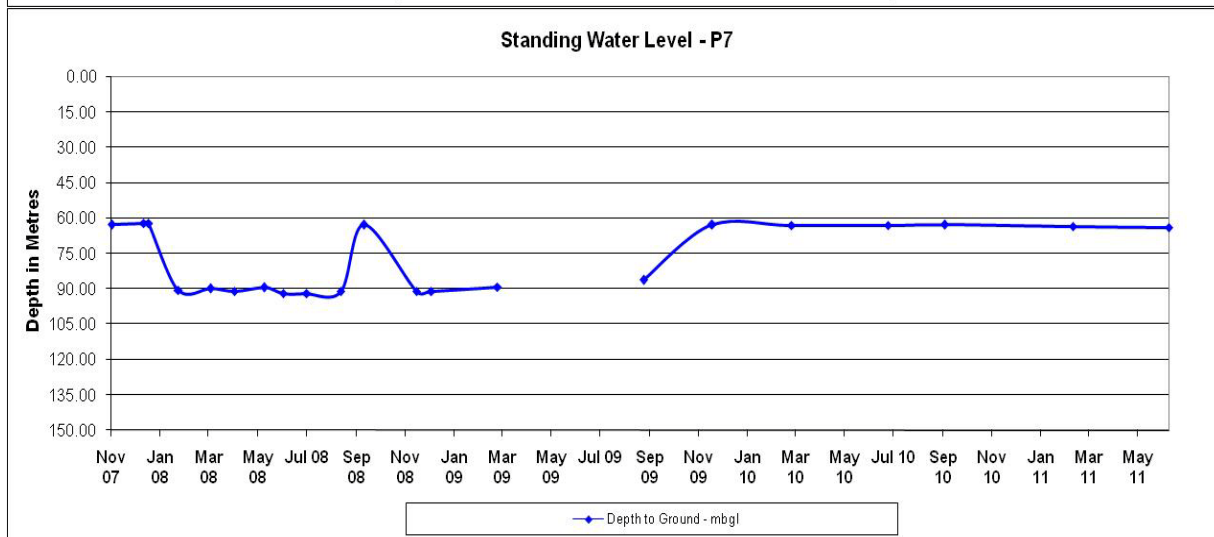
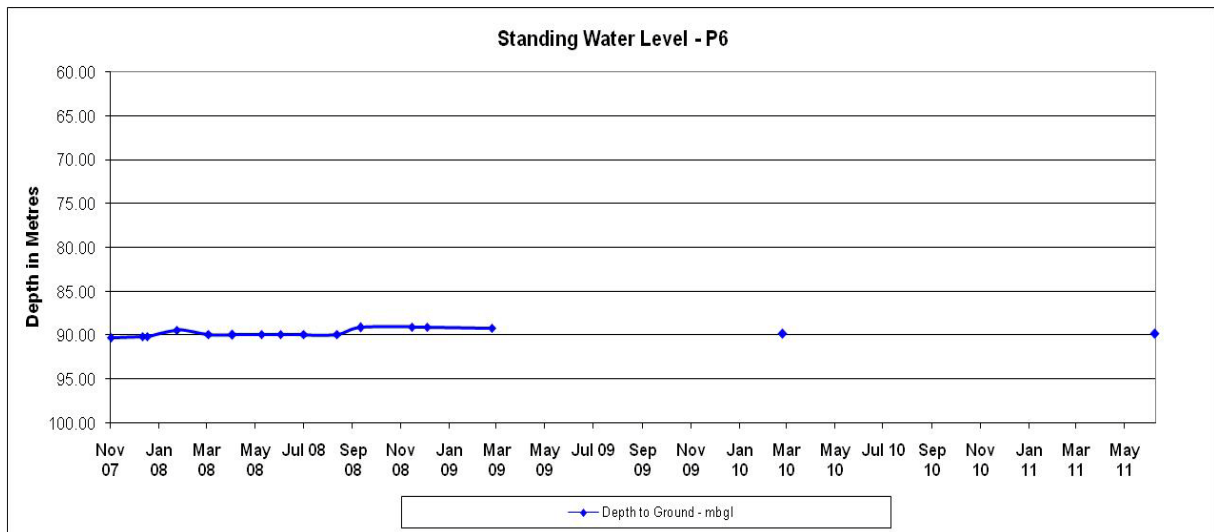
Groundwater Monitoring

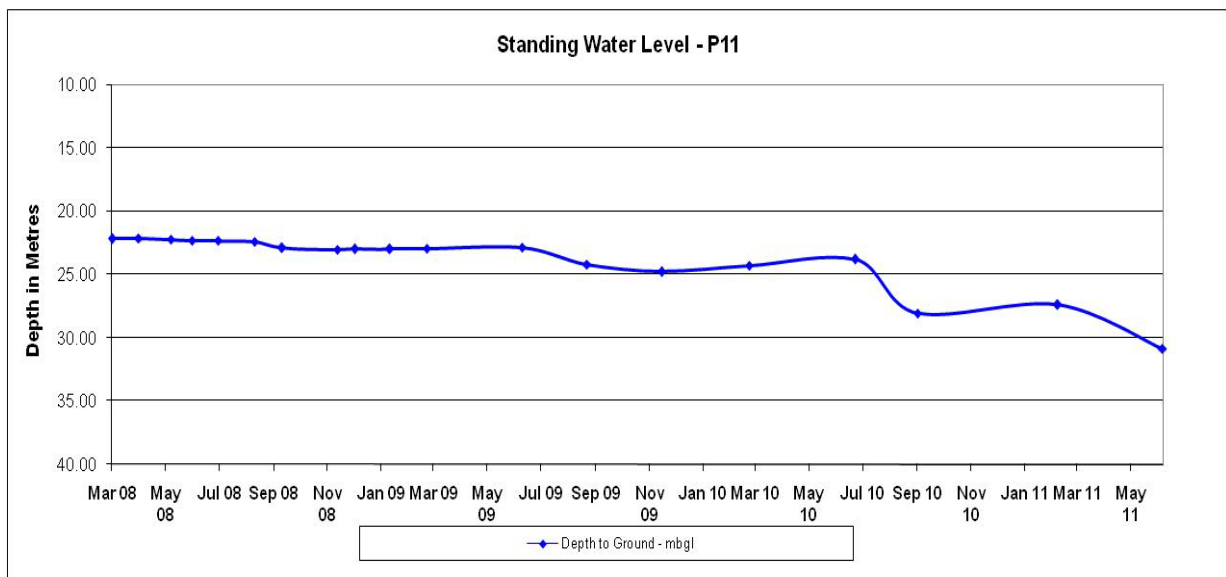
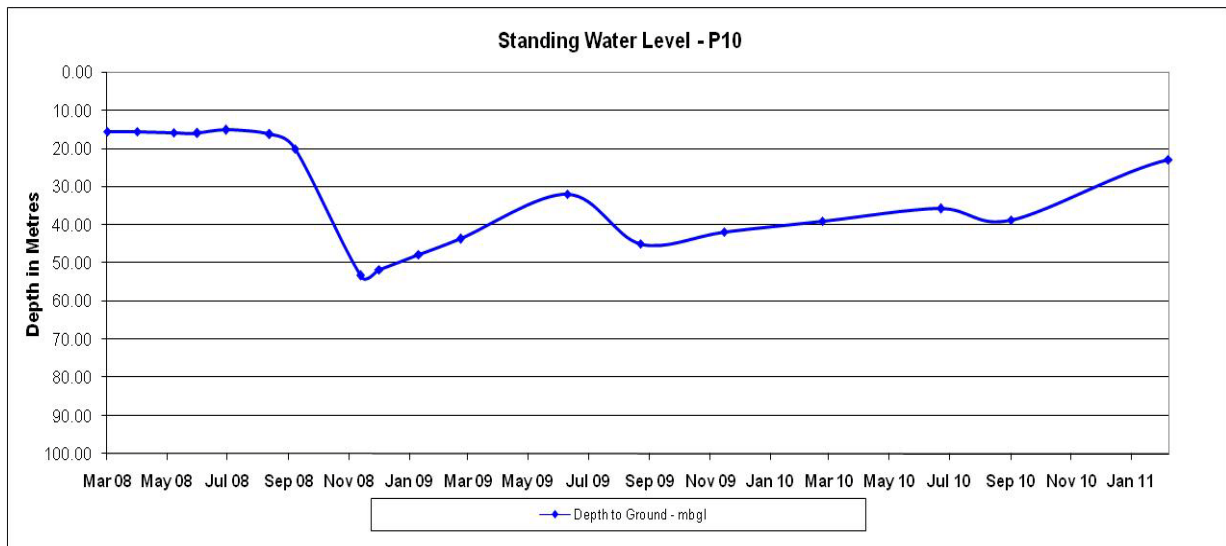
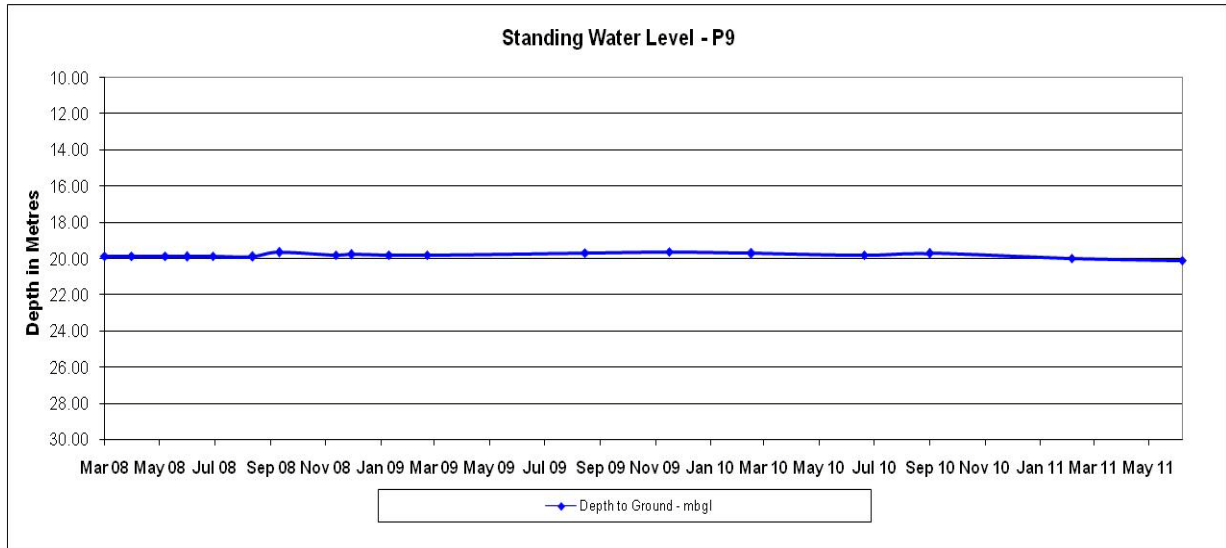
Groundwater monitoring was undertaken during May and June, with updated charts provided below. Groundwater levels have remained relatively consistent with prior measurements with the exception of P11 which has dropped 3m over 4 months to June 2011. This piezometer is located immediately adjacent to P10 which has shown recent recharge. Further measurements will be undertaken to determine if the result for P11 is anomalous or if a declining trend is determined warranting further investigation.

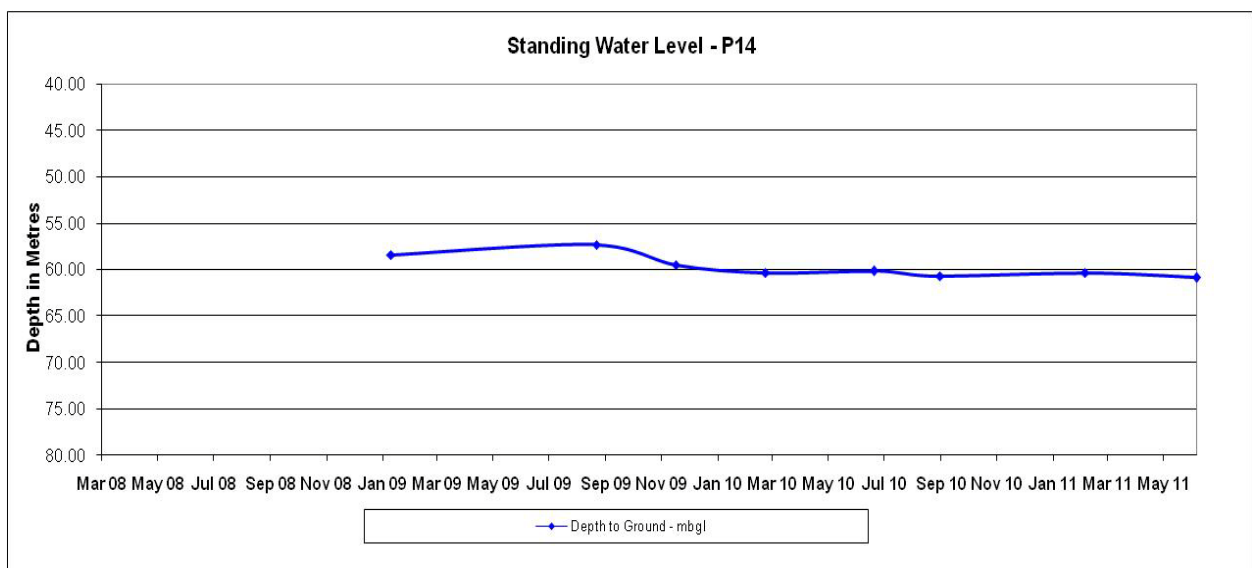
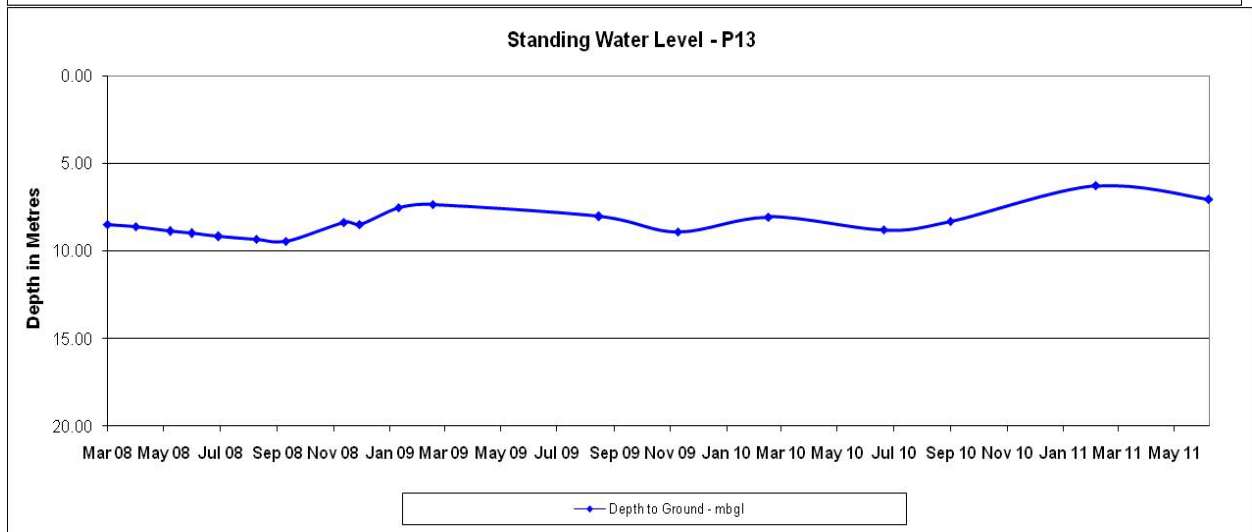
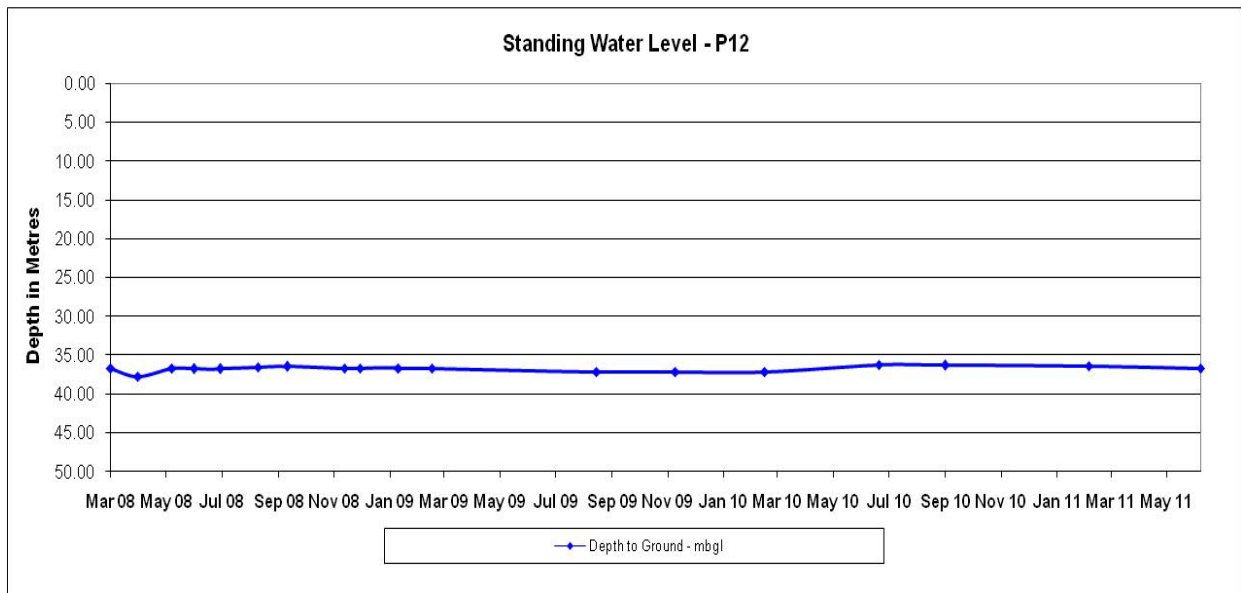
P17 continues to remain dry which is consistent with measurements over the last 2 years. P18 and P20 results have not been included as these monitoring points are located in the immediate vicinity of the gas drainage works where gas extraction has dewatered these bores.

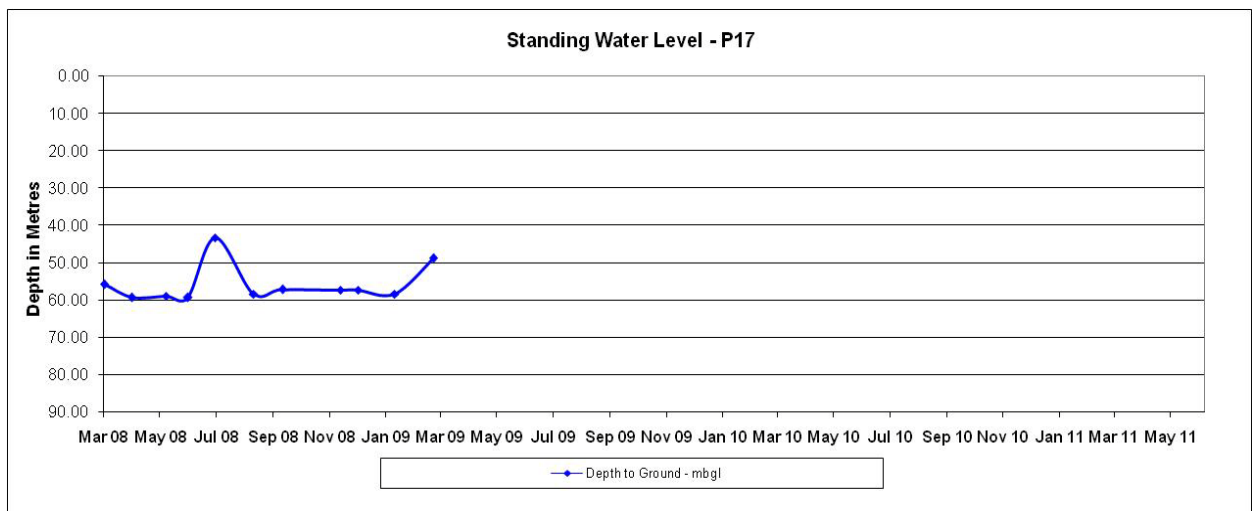
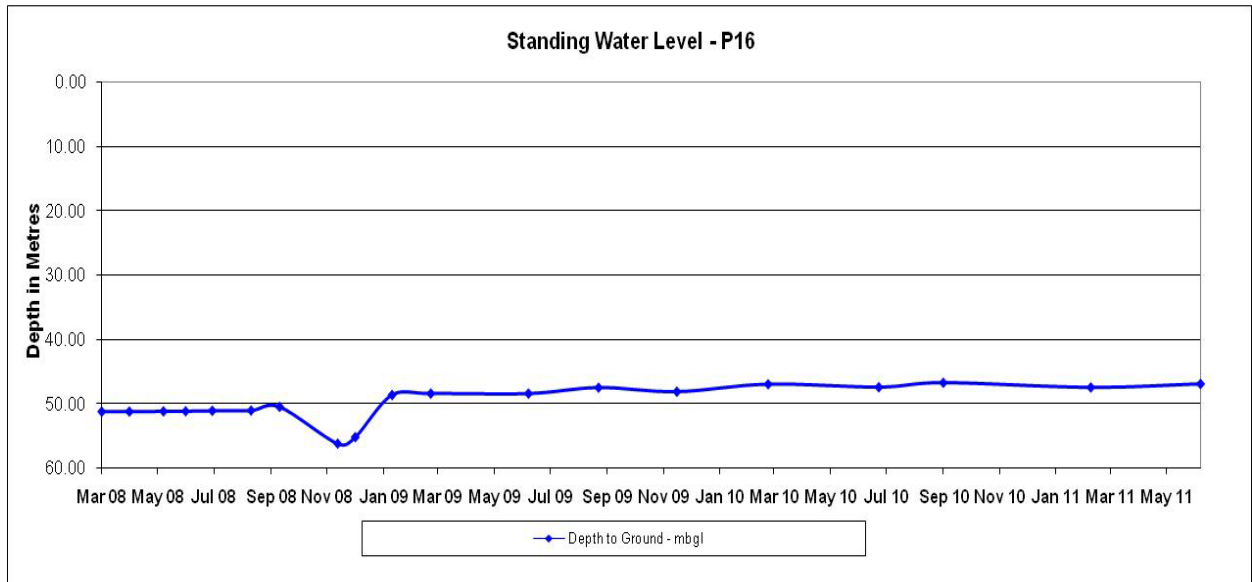
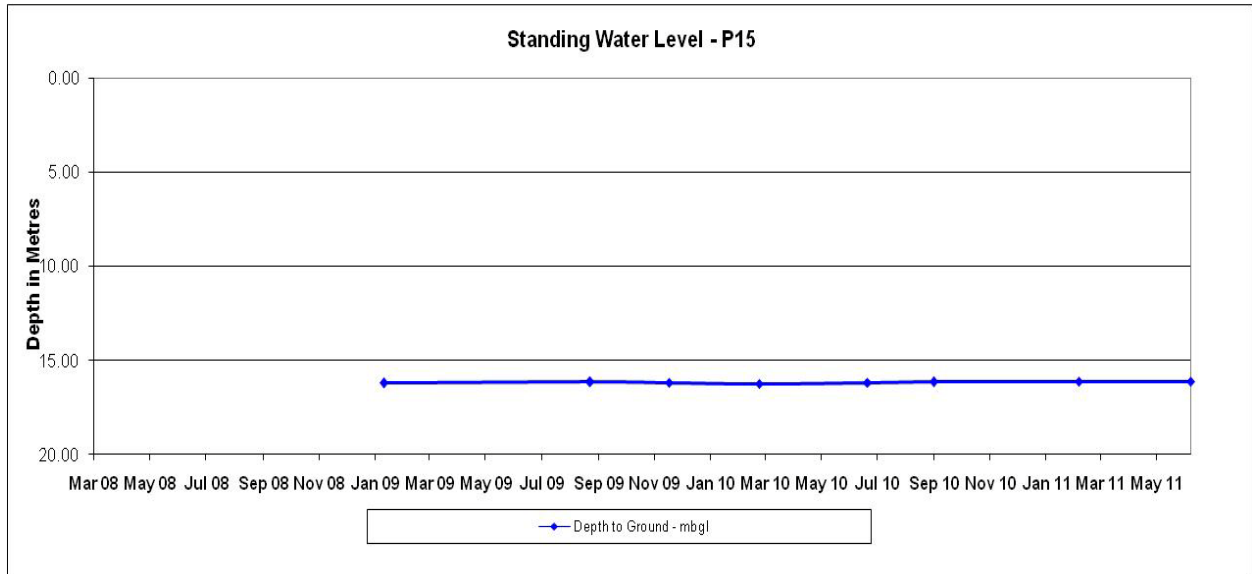


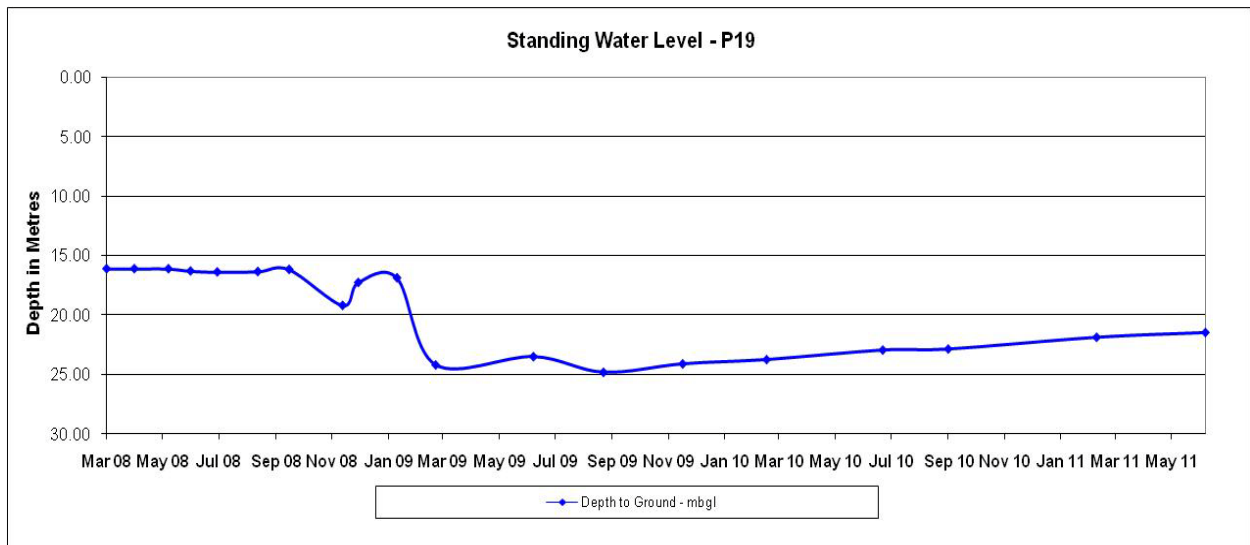












Surface Water Monitoring

No wet weather discharges have occurred during May and June with no flows monitored in surrounding creek points.

Complaints

No formal complaints have been received since March 2011. Advice issued by the Office of Environment and Heritage concerning matters raised by the owner of the “Oakleigh” property have been addressed with the planting of a tree screen in proximity to his residence, and the commencement of dust and noise monitoring.

Independent Environmental Audit

An Action Plan relevant to the Independent Environmental Audit has recently been prepared by Narrabri Coal Operations for submission to the Department of Planning and Infrastructure. Upon advice from the Department that the audit and action plan have been approved the documents will be made available to the CCC for their information.

Community Consultative Committee Meeting Minutes

Meeting No: 15

Date: 8th November 2011

Time: 4.05pm

Location: Narrabri Coal Operations Site Office

Present:

Terry Miller - Chairman
Sally Hunter
Peter Webb
James Stieger
Mark Foster
Greig Duncan (Narrabri Coal Operations General Manager)
Shane Pegg (Narrabri Coal Operations Technical Services Manager)
Danny Young (Whitehaven Coal Group Environmental Manager)
Mereka Smith (Narrabri Coal Operations Administration Assistant)

1.0 Apologies

Steve Farrar

2.0 Previous Minutes

Moved: Mark Foster

2.1 Business Arising from Previous Minutes

2.1.1 The Open Day is now called the Narrabri Coal Mine Tour Day. The date of the tour is Saturday 3rd December 2011. Tour Day coincides with the recent completion of the mine's Coal Handling and Preparation Plant, and the arrival, and above ground construction of the longwall mining unit. The onsite activities for the day include a visual display of site development since 2008, audiovisual displays of mine operations and bus tours around the site. Participants will receive a goodies bag which will have a cap, water bottle, sunscreen and a small booklet.

Advertisement of the Tour Day will be in The Courier and Namoi Valley Independent, starting Thursday 10th November 2011.

Tea, coffee and refreshments will be provided by the Narrabri Lioness Club.

Free buses will collect visitors from Narrabri and Boggabri. Booking is essential and participants will have to contact the Narrabri Information Centre to place a booking. No private vehicles will be granted access to site. All transport to site will be by the buses provided.

No underground tour will be held. At this point in time it is not feasible from a logistics and OHS perspective.

2.1.2 Shane Pegg advised the alarm has been relocated.

2.1.3 Greig Duncan to follow up the status of the Newsletter.

2.1.4 James Stieger was seeking clarification of the term Gunnedah Basin, in relation to employment. Greig Duncan replied that it is referred to as the Gunnedah Basin from a geological perspective and covers a large area; Baan Baa, Narrabri, Boggabri, Gunnedah, Curlewis, Werris Creek and Quirindi. The use of the term Gunnedah Basin does not relate to the location from where employees are sourced.

3.0 General Business

3.1 Construction Progress Report

Greig Duncan provided the following update on construction progress;

- Long Wall (LW) parts are all onsite. The LW unit is expected to be built on the surface and commissioned in the next two weeks.
- Coal Preparation Plant is expected to finish commissioning at the start of December 2011.
- Installation of fans on shaft will commence on 28th November 2011.
- Underground development – Delta SBD will develop the maingate.

3.2 Environmental Overview

As per provided report.

4.0 Neighbourhood Watch Issues

Terry Miller suggested we start at Neighbourhood watch program.

Greig Duncan replied that it is a good idea and he will investigate appropriate options. Greig advised the CCC Members that increased security will start in the next couple of week's onsite due to recent theft events. Cameras will be installed throughout the site.

5.0 New Business

Terry Miller asked about Narrabri Coal's underground workforce numbers.

Greig Duncan replied that we currently have 65 people employed, which is about half of what is required. Another group of cleanskins (inexperienced) will commence work at the start of December 2011. A total of 12 cleanskins, 5 of them are from Narrabri, 5 are from Gunnedah and 2 from other regions.

Terry Miller asked if Narrabri Coal had a plan to increase the carpark due to it being full.

Greig Duncan replied that where the current underground conveyor equipment is, it will be turned into a carpark after Christmas.

Mark Foster advised he would like to invite Kevin Humphries MP to the next CCC Meeting and to the Mine Tour Day.

Greig Duncan advised this will be done.

6.0 Complaints and Complaints Hotline

As per provided report.

Mark Foster asked if you have a complaint are you only able to contact the Complaints Hotline?

Greig Duncan advised no, you can also contact the Main Office.

7.0 Next Meeting

Thursday 9th February 2012, 4:00pm, Narrabri Coal Site Office.

8.0 Closure of Meeting

Meeting closed 4:47pm

Narrabri Coal Mine Community Consultative Committee Meeting #15

Environmental Monitoring Report July 2011 – October 2011

Noise Monitoring

Attended noise monitoring was undertaken on 28th July, 25th August and 27th - 28th September 2011 to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

Table 1 NCM Noise Monitoring Results – 28 July 2011 (Day)					
Location	Time	dB(A), Leq(15min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
Bow Hills	5:25 pm	51.3	0-1m/s, SSE	+2.3	Traffic (51), NCM (25)
Naroo	3:58 pm	44.6	0-1m/s, SSE	+0.8	Traffic (43), Dog (40), NCM inaudible
Claremont*	4:17 pm	34.6	0-1m/s, SSE	+0.4	Birds (38), NCM inaudible
Westhaven	4:36 pm	36.5	0-1m/s, SSE	+0.8	Birds (35), NCM¹ (31)
Greylands	5:04 pm	35.8	0-1m/s, SSE	+1.2	Traffic (34), NCM² (30) ,

Table 2 NCM Noise Monitoring Results – 28 July 2011 (Evening)					
Location	Time	dB(A), Leq(15min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
Bow Hills	7:40 pm	53.2	0-1m/s, SSE	+12.2	Traffic (53), NCM (30)
Naroo	6:19 pm	36.5	0-1m/s, SSE	+6.6	Traffic (35), NCM (32)
Claremont	6:41 pm	32.1	0-1m/s, SSE	+8.6	NCM¹ (32)
Westhaven	7:01 pm	35.2	0-1m/s, SSE	+8.6	Birds (32), NCM (32)
Greylands	7:22 pm	36.3	0-1m/s, SSE	+11.4	Traffic (33), NCM (33)

Table 3 NCM Noise Monitoring Results – 28 July 2011 (Night)					
Location	Time	dB(A), Leq(15min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
Bow Hills	10:11 pm	48.2	1-2m/s, SE	+11.6	Traffic (48), wind (33), NCM (27)
Naroo	10:29 pm	37.2	1-2m/s, SSE	+14.6	Traffic (36), NCM (28)
Claremont	10:47 pm	34.2	1-2m/s, SE	+14.0	Wind (33), NCM (30)
Westhaven	11:07 pm	35.1	1-2m/s, SE	+14.0	Wind (32), NCM (32)
Greylands	11:32 pm	35.5	1-2m/s, SE	+14.6	NCM (31) , Wind (30), Traffic (30)

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

¹ Ventilation shaft drill site.

² Surface facilities.

Table 4 NCM Noise Monitoring Results – 25 August 2011 (Day)					
Location	Time	dB(A), Leq(15min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
Bow Hills	5:31 pm	50.5	0-1m/s, SSE	+0.5	Traffic (50), NCM inaudible
Naroo	4:04 pm	43.4	0-1m/s, SSE	-0.2	Traffic (43), NCM inaudible
Claremont*	4:26 pm	32.2	0-1m/s, SSE	0.0	Birds (32), NCM inaudible
Westhaven	4:47 pm	36.3	0-1m/s, SSE	+0.3	Birds (35), NCM¹ (30)
Greylands	5:08 pm	39.4	0-1m/s, SSE	+0.3	Traffic (38), NCM² (32) ,

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

¹ Ventilation shaft drill site.

² Surface facilities.

Table 5 NCM Noise Monitoring Results – 25 August 2011 (Evening)					
Location	Time	dB(A), Leq(15min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
Bow Hills	7:36 pm	53.2	0-1m/s, SSE	+0.8	Traffic (53), NCM (30)
Naroo	6:09 pm	41.3	0-1m/s, SSE	+0.4	Birds (39), Traffic (37), NCM inaudible
Claremont	6:28 pm	32.4	0-1m/s, SSE	+0.4	Birds (31), NCM¹ (27)
Westhaven	6:55 pm	34.2	0-1m/s, SSE	+0.2	Birds (33), NCM (29)
Greylands	7:17 pm	41.2	0-1m/s, SSE	+0.6	Birds (40), Traffic (36), NCM (32)

Table 6 NCM Noise Monitoring Results – 25 August 2011 (Night)					
Location	Time	dB(A), Leq(15min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
Bow Hills	10:04 pm	49.8	0-1m/s, SSE	+0.6	Traffic (49), NCM (<25)
Naroo	10:23 pm	38.9	0-1m/s, SSE	+0.4	Traffic (38), NCM inaudible
Claremont	10:44 pm	28.8	0-1m/s, SSE	+0.4	Non-specific (26), NCM (<25)
Westhaven	11:02 pm	31.4	0-1m/s, SSE	+0.6	Frogs (31), NCM (<25)
Greylands	11:23 pm	37.5	0-1m/s, SSE	+0.8	Traffic (37), NCM (30)

Table 7: NCM Noise Monitoring Results – 27 September 2011 (Evening)					
Location	Time	dB(A), Leq(15min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
Bow Hills	7:29 pm	49	0.4 m/s, NNE	1.8	Traffic (49), NCM inaudible
Naroo	6:09 pm	41	0.4 m/s, NNE	-1.4	Traffic (39), birds (37), NCM inaudible
Claremont*	6:29 pm	35	Calm	-1.2	Sheep (32), NCM¹ (32)
Westhaven	6:45 pm	33	Calm	-1.8	Insects (33), NCM² (25)
Greylands	7:04 pm	37	Calm	1.2	Traffic (34), insects (34), NCM inaudible

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

¹ Surface facilities.

² Gas plant.

Table 8: NCM Noise Monitoring Results – 28 September 2011 (Night)					
Location	Time	dB(A), Leq(15min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
Bow Hills	6:31 am	50	0.4 m/s, S	-0.6	Traffic (50), NCM inaudible
Naroo	5:11 am	42	0.9 m/s, SSE	0	Birds (40), Traffic (37), NCM inaudible
Claremont	5:29 am	36	Calm	1.0	Birds (34), NCM¹ (31)
Westhaven	5:48 am	38	Calm	1.6	Birds (35), NCM^{1,2} (35)
Greylands	6:09 am	40	Calm	0.6	Birds (38), Traffic (34), NCM (31)

Table 9: NCM Noise Monitoring Results – 28 September 2011 (Day)					
Location	Time	dB(A), Leq(15min)	Wind speed/ direction	Temp Grad (°C/100m)	Identified Noise Sources
Bow Hills	8:27 am	53	3.6 m/s, N	1.3	Traffic (53), NCM inaudible
Naroo	7:09 am	43	2.7 m/s, N	3.2	Traffic (41), NCM³ (38)
Claremont	7:27 am	38	2.2 m/s, NE	3.1	Traffic (35), NCM¹ (35)
Westhaven	7:44 am	34	3.1 m/s, NNE	2.2	Cattle (33), NCM² (<30)
Greylands	8:04 am	39	4 m/s, NE	2.0	Traffic (37), NCM (30)

³ Shift-change traffic.

The results indicate noise emissions from the mine did not exceed the criterion limit of 35 dB(A), Leq(15min) at any monitoring location during the monitoring period.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) L_{1(1 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 min)} noise from the mine did not exceed 45 dB(A) at any monitoring location during the monitoring events.

The July, August and September monitoring also assessed the incidence of temperature inversions by placing two temperature loggers, attached to stakes, at different elevations. At the time of measurement, some significant temperature inversions were present, but no impact on noise propagation was noted.

The real time noise monitor, located at the “Matilda” property, is reporting results to date indicating no noise exceedance events.

Deposited Dust Monitoring

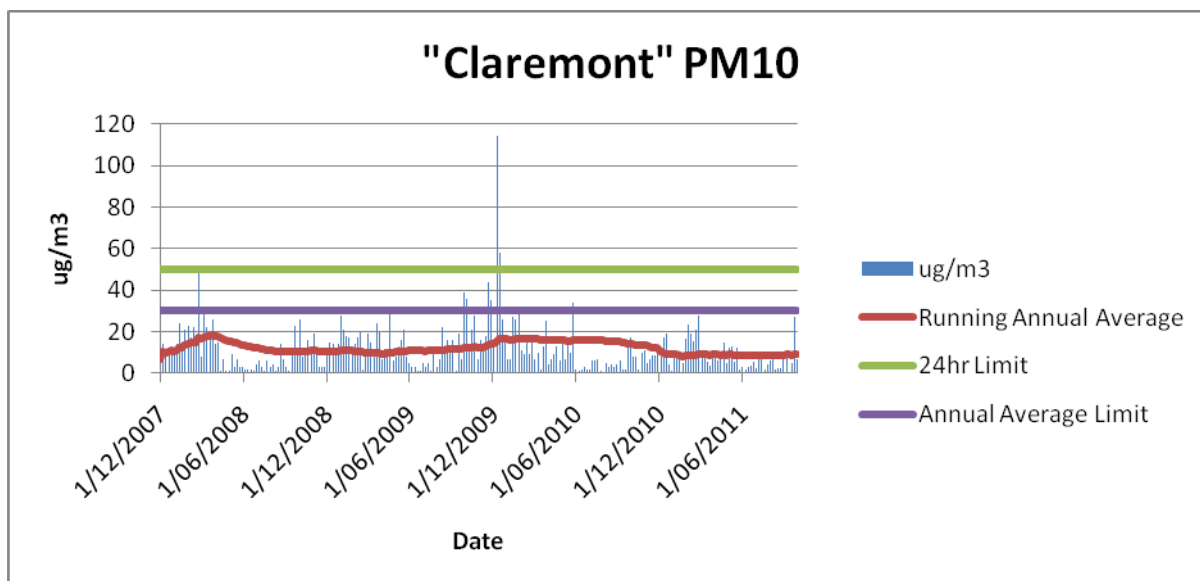
Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarah	ND7 Claremont	ND8 Claremont	ND4a New Matoppo	ND9 Oakleigh
November 2010	1.1	2.3	0.3	28.1	3.6	4.1	2.2	0.5		
December 2010	1.5	4.4	3.2	8.3	4.1	0.8	3.1	1.4		
January 2011	1.1	4.4	0.7	0.1	2.1	7.1	3.7	0.9		
February 2011	1.1	2.5	0.5	1.5	4	2.1	2.3	2.6	3.6	
March 2011	1.4	1.6	2.5	3	46.6	5	1.6	2.1	3.2	
April 2011	0.6	1.8	3.6	5	3.8	0.8	1	0.7	1.8	
May 2011	0.1	0.4	1.8	7.8	3.3	0.8	0.8	0.4	1.1	
June 2011	0.8	0.9	2.2	48.1	4	1.5	1.3	3.1	4.3	0.8
July 2011	1.3	0.6	2.6	10.4	1.6		3.8	0.2	1.5	0.2
August 2011	0.4	2.3	1.8	12.2	12.4	1.9	1.5	1.2	0.6	0.5
September 2011	0.8	3.3	1.7	18.7	2.9	1.0	1.2	0.6	0.5	0.6
October 2011	1.0	1.5	2.1	4.9	7.5	1.0	2.0	0.7	0.7	0.4
Annual Average	0.9	2.2	1.9	12.3	8.0	2.4	2.0	1.2	1.9	0.5

Deposited dust results have remained at relatively low levels since the last meeting, with the exception of ND4 “Matoppo” and ND5 “Claremont”. ND4 returned results during July, August, September and October of 10.4, 12.2, 18.7 and 4.9 g/m²/month, respectively. This has again adversely affected the annual average. ND5 returned results during July, August, September and October of 1.6, 12.4, 2.9 and 7.5 g/m²/month, respectively. The high results in March and August at ND5 have adversely affected the annual average for this gauge. All other annual average results have generally declined.

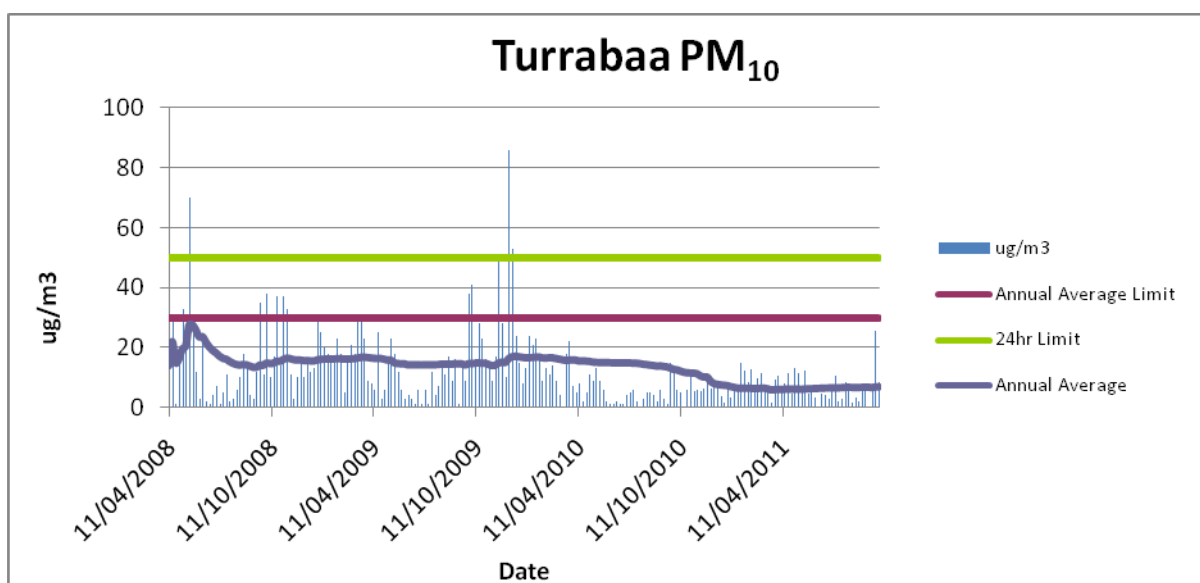
The new monitor at ND4a at “Matoppo” and in closer proximity to site operations continues to demonstrate consistently lower results as compared to ND4 indicative of other factors influencing the ND4 result. Monitor ND9 was also recently established at “Oakleigh” with the results indicating deposited dust levels well within compliance limits.

High Volume Air Sampling (PM₁₀)

PM₁₀ measurements taken to date for the “Claremont” High Volume Air Sampler are returning a running annual average of 9.07 µg/m³ which is well below the annual average limit of 30 µg/m³.



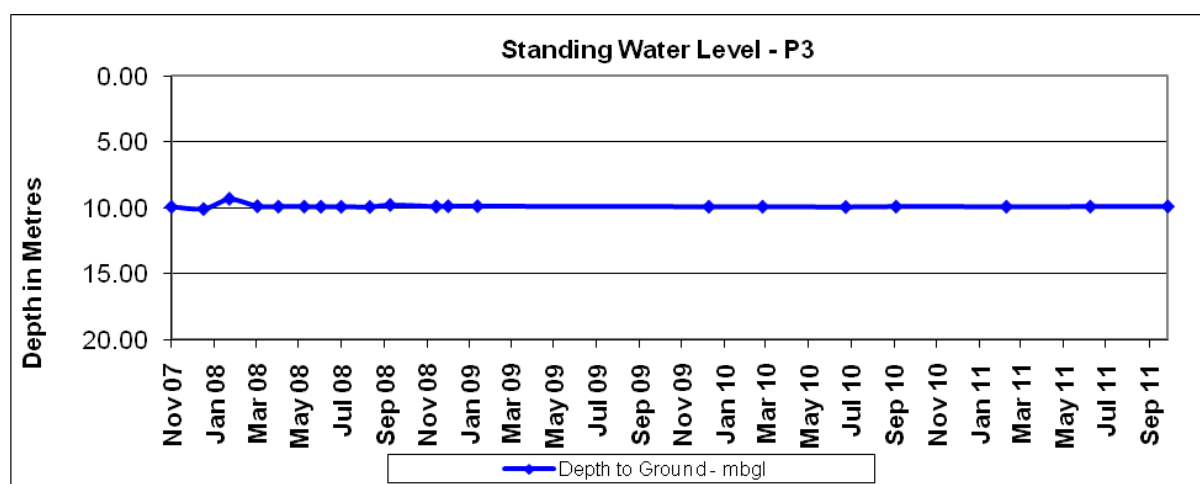
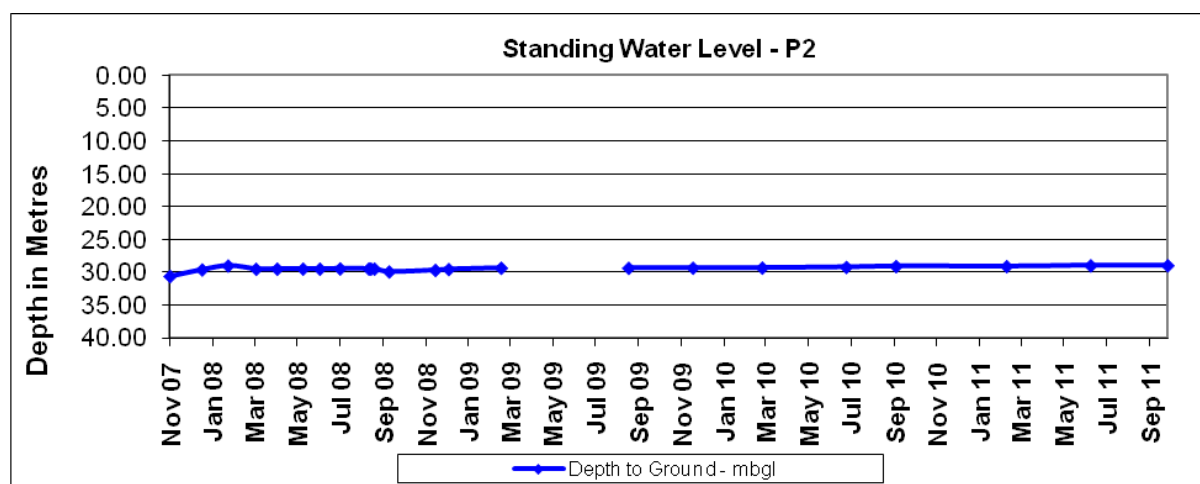
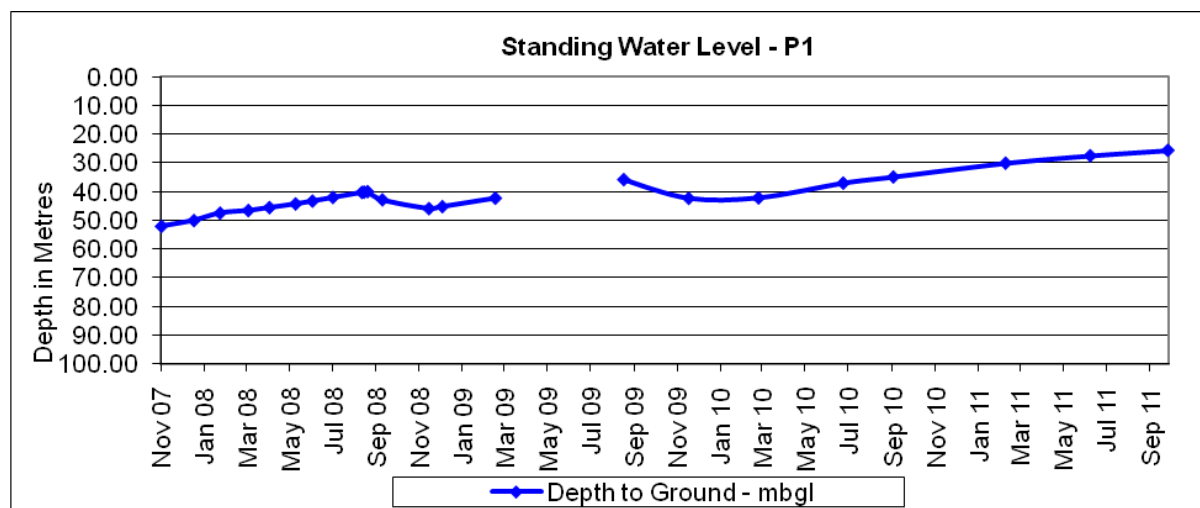
PM₁₀ measurements taken to date for the "Turrabaa" High Volume Air Sampler are returning a running annual average of 6.90 $\mu\text{g}/\text{m}^3$ which is also well below the annual average limit of 30 $\mu\text{g}/\text{m}^3$

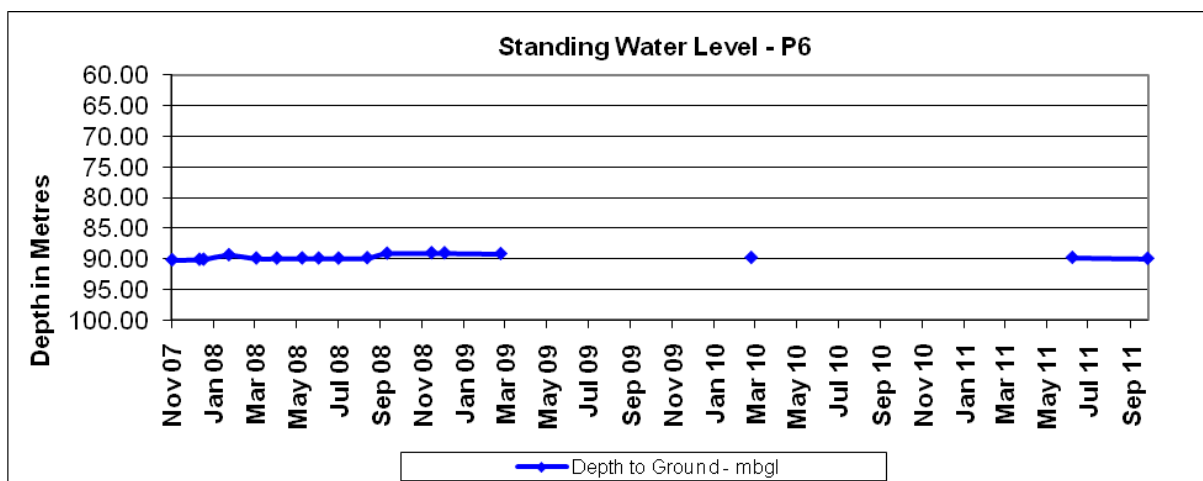
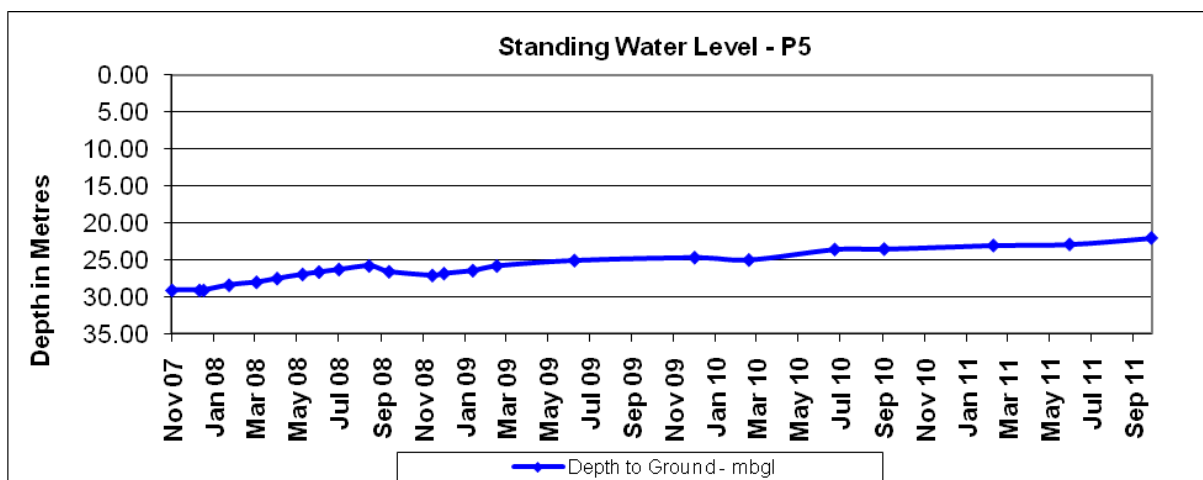
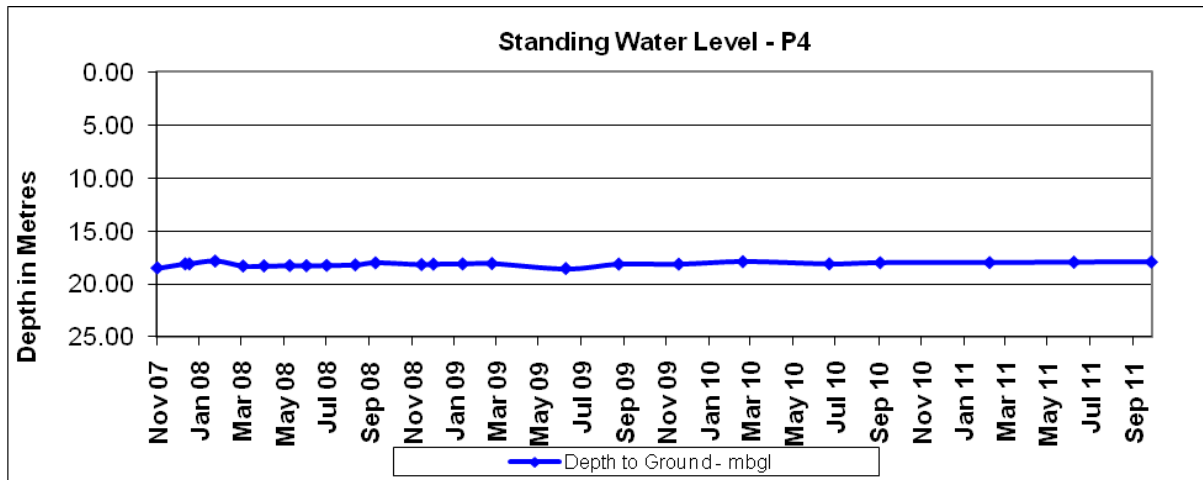


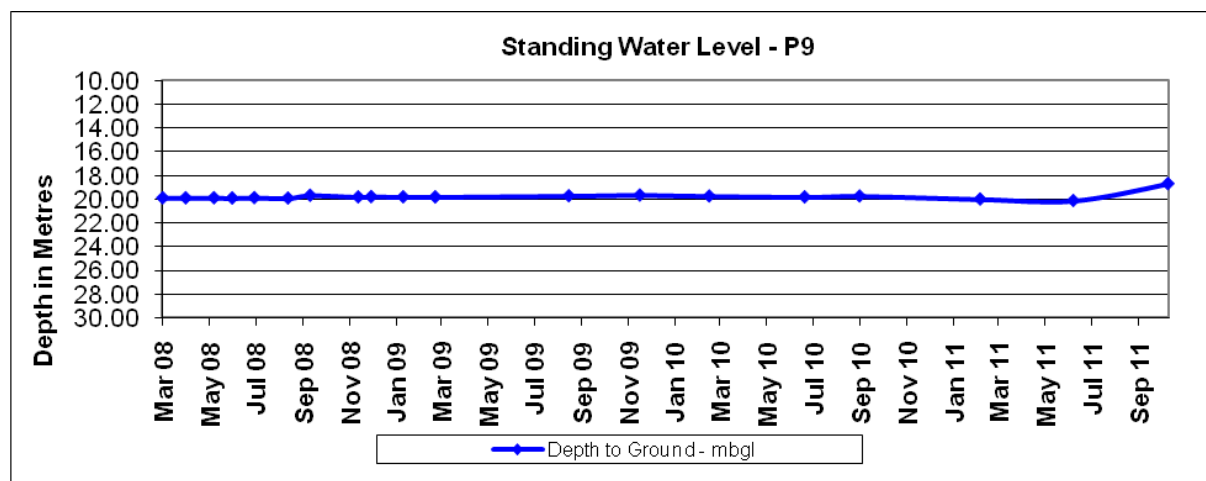
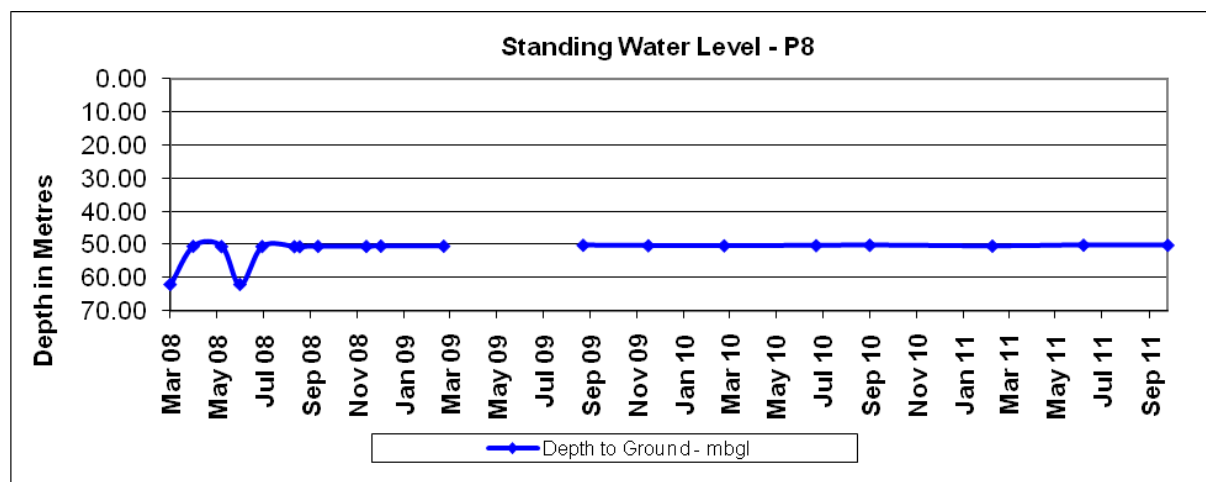
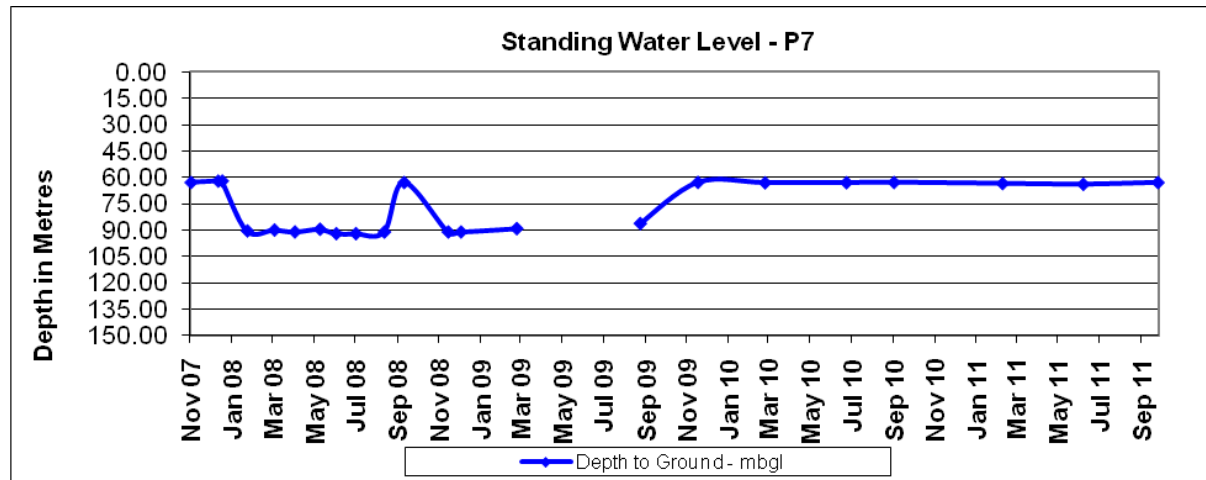
PM₁₀ levels have remained compliant since the last meeting with annual averages at both sites displaying a continued downward trend.

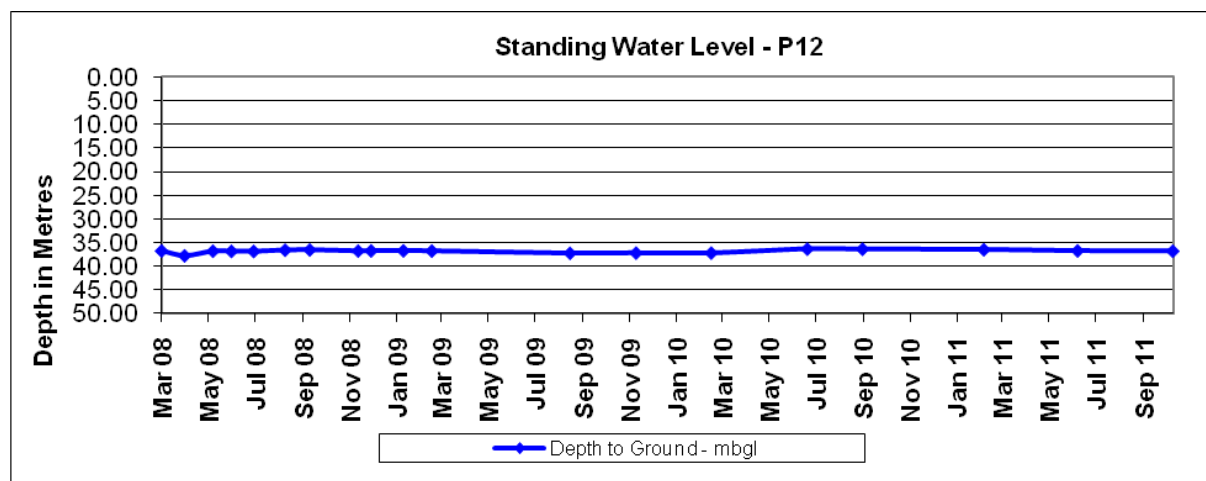
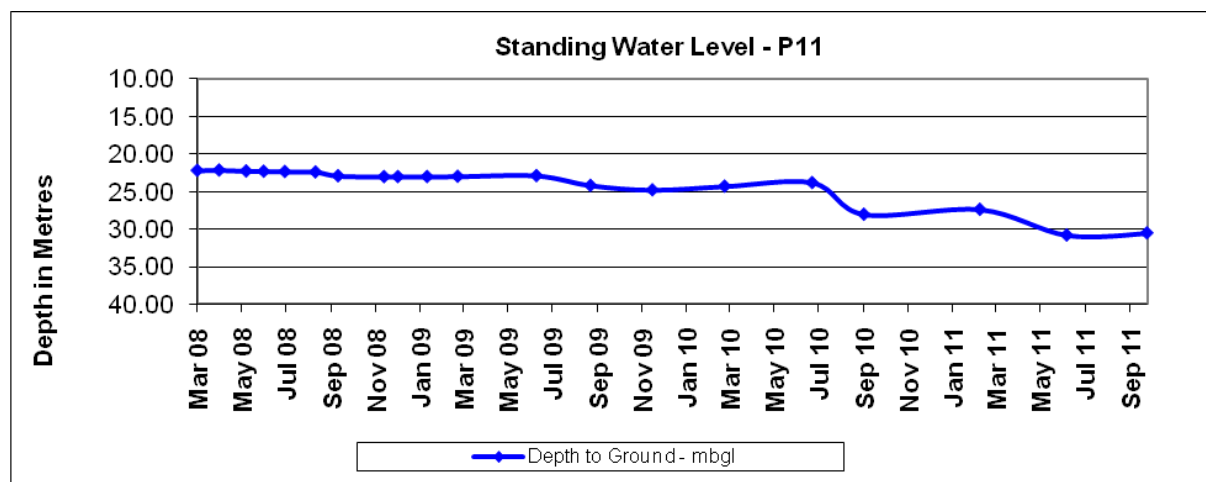
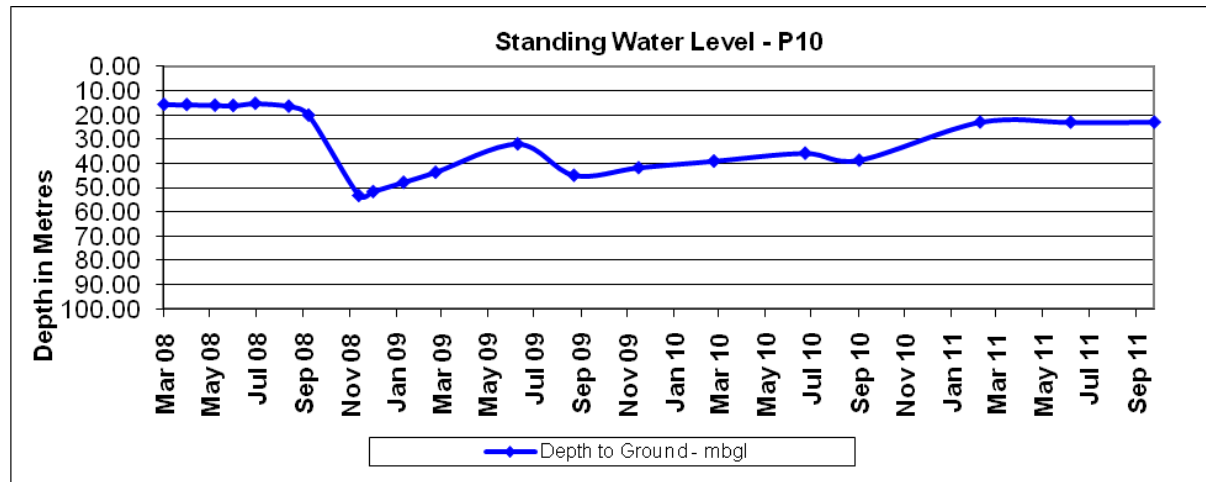
Groundwater Monitoring

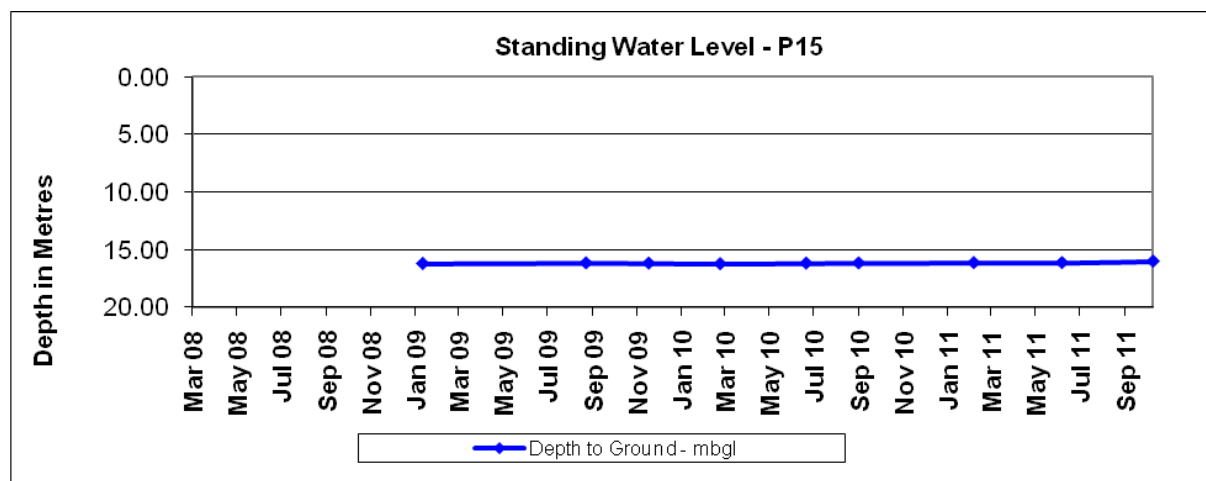
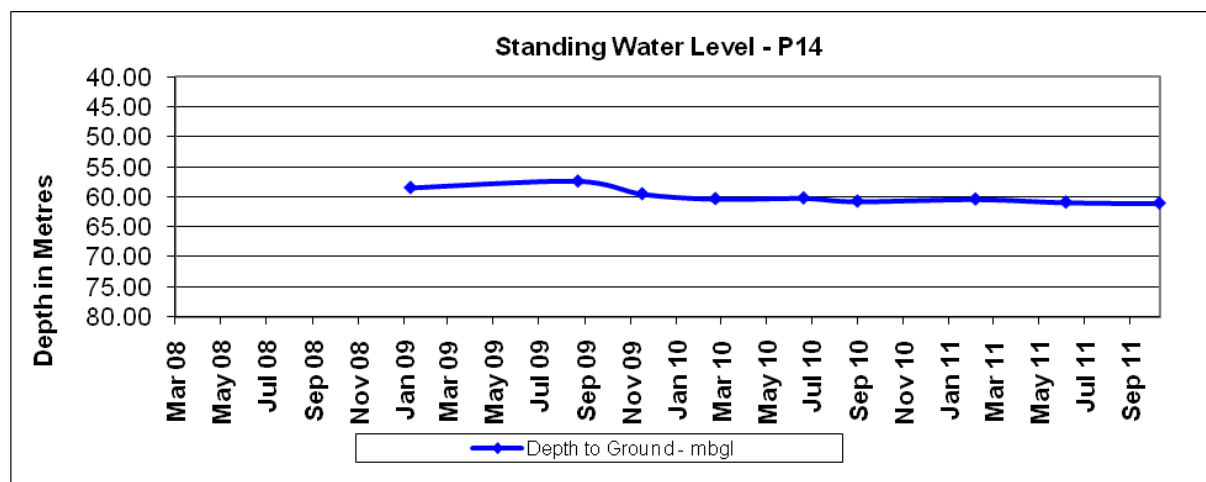
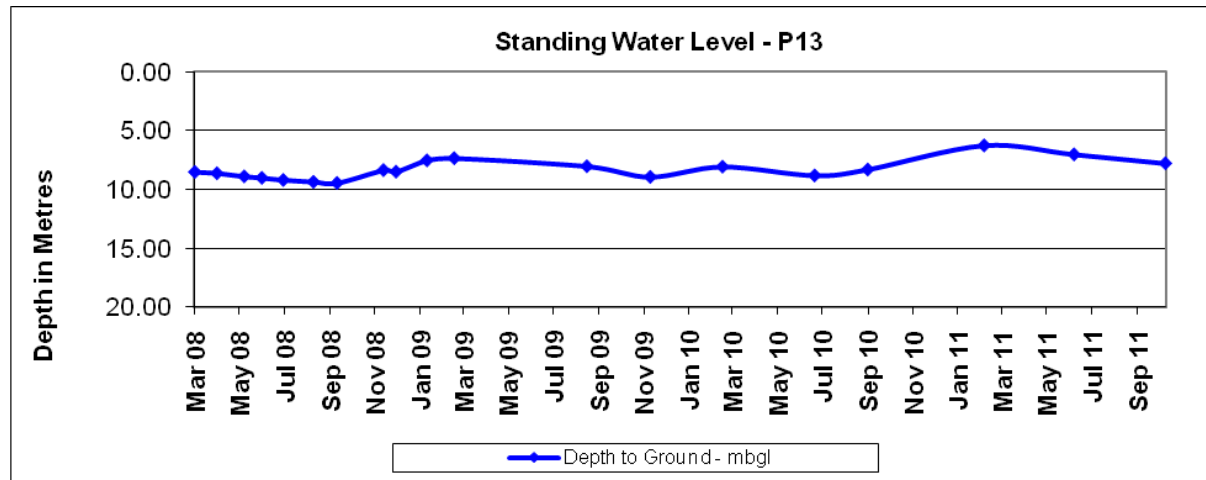
Groundwater monitoring was completed during September and October. Results indicate that groundwater levels are remaining relatively consistent with prior measurements. P11, located at "Mayfield", was noted as dropping over 3m during the previous sampling period, however the level now appears to be stabilising. In addition, this piezometer is located immediately adjacent to P10 which also appears to be stabilising after recently recharging. The results for this piezometer will continued to be monitored.

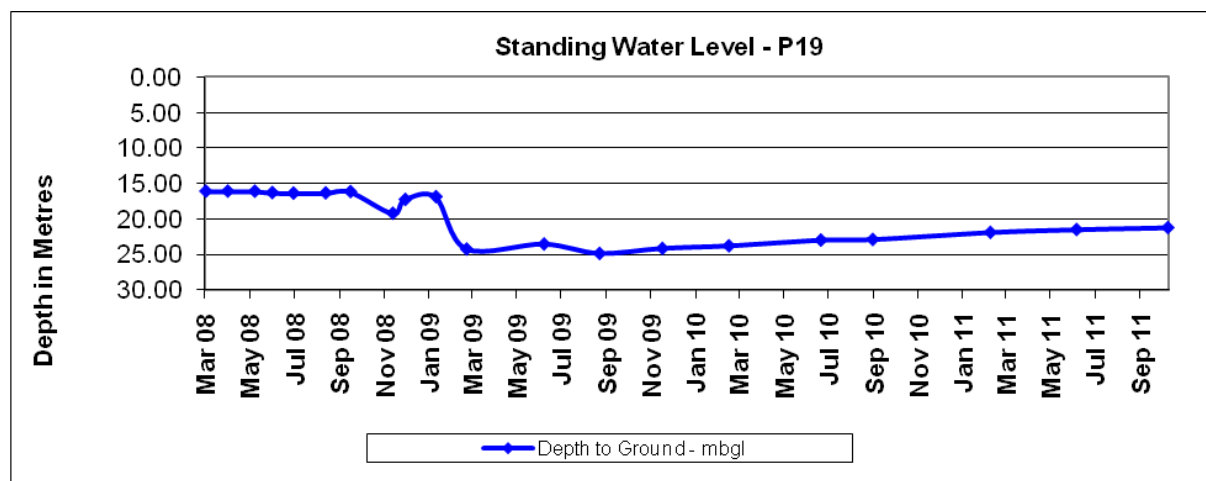
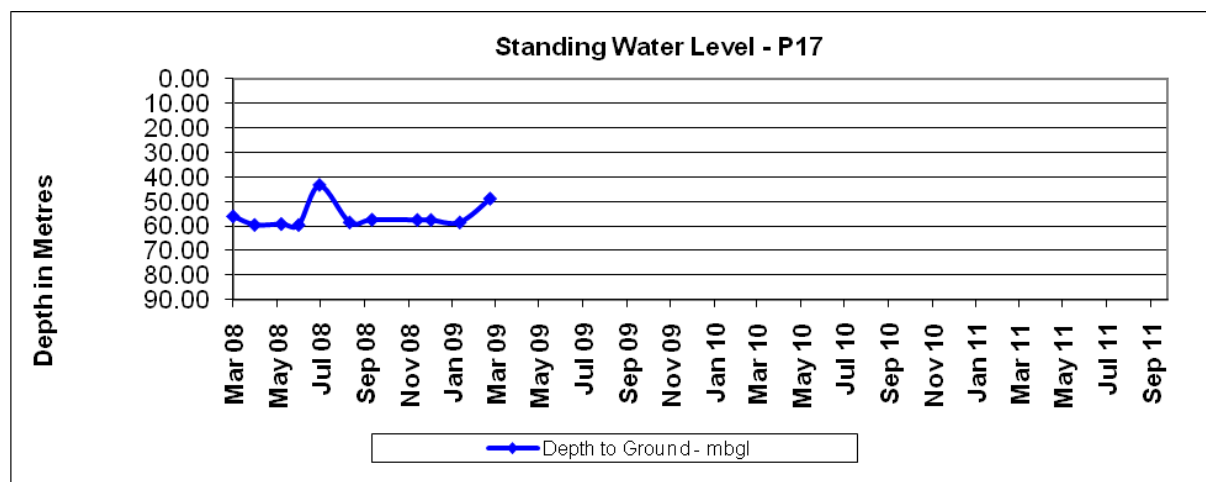
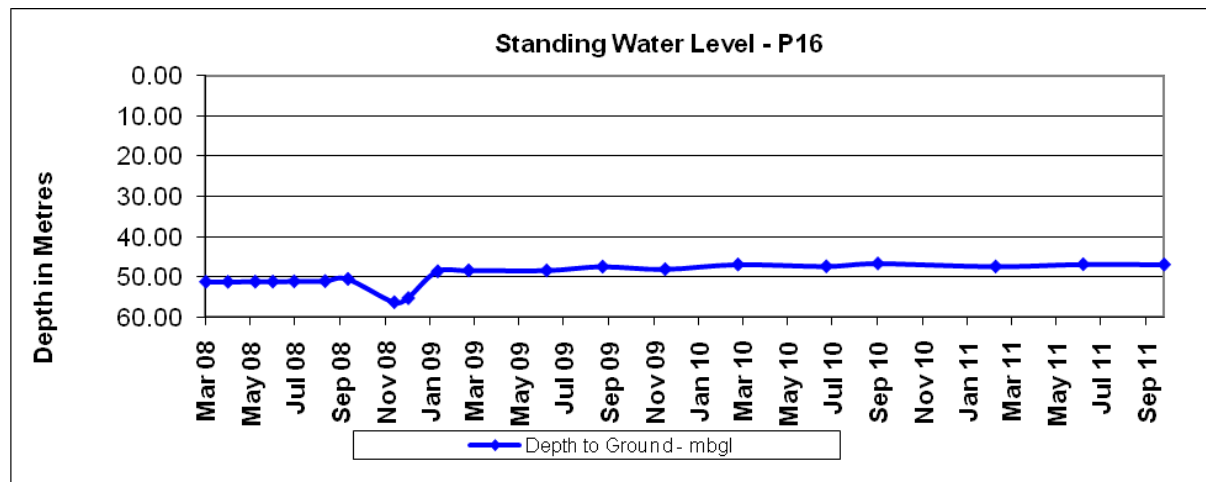












Surface Water Monitoring

No wet weather discharges have occurred during July to October. Flows were monitored in surrounding creek points on the 9th and 29th September 2011.

Complaints

Three formal complaints have been received since July 2011. For the first two complaints (same complainant), meetings were held with the complainant and a number of actions have been committed to which include: tree planting for visual screening; relocation of the noise monitor; safety briefs to be issued in relation to traffic and flashing lights; and upgrading dust suppression equipment at the CHPP and product coal stockpiles (issue raised and actioned onsite separate to the complaint).

For the third complaint, a meeting was held with the resident and options discussed for ongoing monitoring and management. However, since this meeting Narrabri Mine has entered into a contract to purchase this property following a recent auction.

Independent Environmental Audit

The Action Plan relevant to the Independent Environmental Audit has been approved by the Department of Planning and Infrastructure and is available on Whitehaven's website. The Action Plan and Audit document will be made available to the CCC for their information.