

# Minutes of the 4th Meeting of the Tarrawonga Coal Mine Community Consultation Committee

**Meeting Held:** Thursday 1<sup>st</sup> February 2007 at 4:00pm

**Venue:** The meeting held a Tarrawonga Coal Mine Training Room

## 1. Present and Apologies

**Present:** Clr. Ken Bates (Narrabri Shire Rep.) Chairman  
Clr. Colleen Fuller (Gunnedah Shire Rep.)  
Mr. Peter Laird (Community Rep.)  
Mr. Bob McGregor (Community Rep.)  
Mr. Sandy Bull (Community Rep.)  
Mr. Bart Crosby (Community Rep.)  
Mr. Rob Kneale (Narrabri Shire Road Manager)  
Mr. Chris Burgess (Area Manager – Tarrawonga Mine)  
Mr. Tony Jones (Community Liaison Officer – Tarrawonga Mine)  
Mr. Danny Young (Environmental Manager – Tarrawonga Mine)

**Apologies:** Apology was received from Mr. Mathew Laird (Community Rep.)

At this point the Chairman adjourned the meeting and members travelled to the intersection of the mine haul road and the Goonbri Road for an inspection in company with Narrabri Shire Council Road Manager – Mr. Rob Kneale.

Mr. Kneale pointed out that sight distance in both directions met the Australian Standard for such an intersection, being 500 metres to the west and 400 metres to the east. However, it was agreed that some additional measures should be taken to ensure the safety of the people using the intersection. Steps agreed to were:

- (a) More of the low understorey scrub will be removed in both directions.
- (b) That additional signage “Coal Trucks Crossing Ahead” should be installed at the 250 metre mark to advise people of the fact.
- (c) It was also decided that the stop signs should remain on the haul road.

At this point the Committee members returned to the training room where the Chairman reconvened the meeting.

## 2. Previous Minutes

The minutes from the previous meeting of Thursday 2<sup>nd</sup> November 2006 were read and accepted as a true record on the motion of Clr. Colleen Fuller and seconded by Mr. Bob McGregor.

### 2.1 Business Arising

#### 2.1.1 Flora and Fauna Management Plan

Environmental Manager – Danny Young is to contact State Planning to see if we can put the plan in place, for the benefit of the environment, even though it has not been formally approved.

### **2.1.2 Intersection Poor Visibility**

This matter was determined at the site inspection.

### **2.1.3 Past Complaint Actions**

The question of the logs on Manilla Road being left was raised and it was pointed out it was a Condition of the Consent that the logs were to be left there for harbour / habitat for wildlife.

### **2.1.4 Rainwater First Flush Diverters**

Mr. Peter Laird advised that the matter of first flush diverters was mentioned in the company's response to Mr. Laird's submission. It was agreed that mine staff would follow this up.

### **2.1.5 Complaint Regarding Delayed Blast**

The complaint from Mr. Peter Laird regarding not being advised of a delay in blasting was addressed. Area Manager Chris Burgess advised that telephone records indicated the company had followed correct procedure in advising Mrs. Laird of the delay.

### **2.1.6 Goonbri Road Stop Signs**

This matter was determined at the site inspection.

## **3. General Business**

### **3.1 Mine Progress**

Area Manager, Chris Burgess advised that all machinery is now in service. Both diggers are working. All required employees are now employed. Production for January was 75,000 tonnes.

Ms. Monique Myer from Dept. Primary Industries carried out an inspection of 'out of pit dumps' for topsoil, subsoil etc. and although the official report has not yet been received, she was generally happy.

Chris Burgess advised that, along with other mines, there was a problem getting coal to the port and with waiting times for ships.

### **3.2 Environmental Monitoring Results**

Environmental Manager, Danny Young, presented a detailed report on the environmental status and monitoring results for the period November 2006 to January 2007. All results were satisfactory.

## **4. New Business**

Nil

## 5. Complaints

Mr. Bart Crosby advised that although there was an acceleration lane from the haul road onto the Manilla Road south, some trucks were taking the corner too fast and crossing the centre line of the road. He also advised that some coal was being spilled on the road. It was agreed that these issues would be raised with the haulage contractor.

Area Manager, Chris Burgess advised that we now had a new haulage contractor and expected the haulage to be better conducted in the future.

## 5. Next Meeting

The next meeting will be held at Tarrawonga Coal Mine Training Room on Thursday 3<sup>rd</sup> May 2007 at 3:00pm.

Meeting closed at 5:30pm.

.....*K. Bates*.....  
Ken Bates - Chairman

16/2/2007

# **Tarrawonga Coal Mine Community Consultative Committee Meeting #4**

## **Environmental Monitoring Report, November-January 2007**

### **Noise Monitoring**

Since the Tarrawonga Community Consultation Committee in November, Operational and road noise monitoring was conducted in January as per consent requirements. Formal reporting of these results has not yet been received. The results will be presented at the next CCC meeting.

Prior monitoring has indicated TCM to be compliant within consent requirements, with no additional activity at the mine site likely to contribute to additional noise levels. Monitoring of operational noise and road noise will continue on a quarterly basis as required under the consent conditions.

### **Blasting Pressure**

#### **Blasting Results**

Since the first shot there have been 14 blasts.

All blasts have been compliant within the limits of 115dB<sub>L</sub> and 5mm/s.

The highest overpressure recorded was 110.1 dB<sub>L</sub> at Tarrawonga Station on the 20<sup>th</sup> of December 2006.

The highest ground vibration remains 0.94mm/s at Templemore on the 8<sup>th</sup> of June 2006.

No formal complaints in relation to blasting were recorded since the previous meeting.

## Air Quality

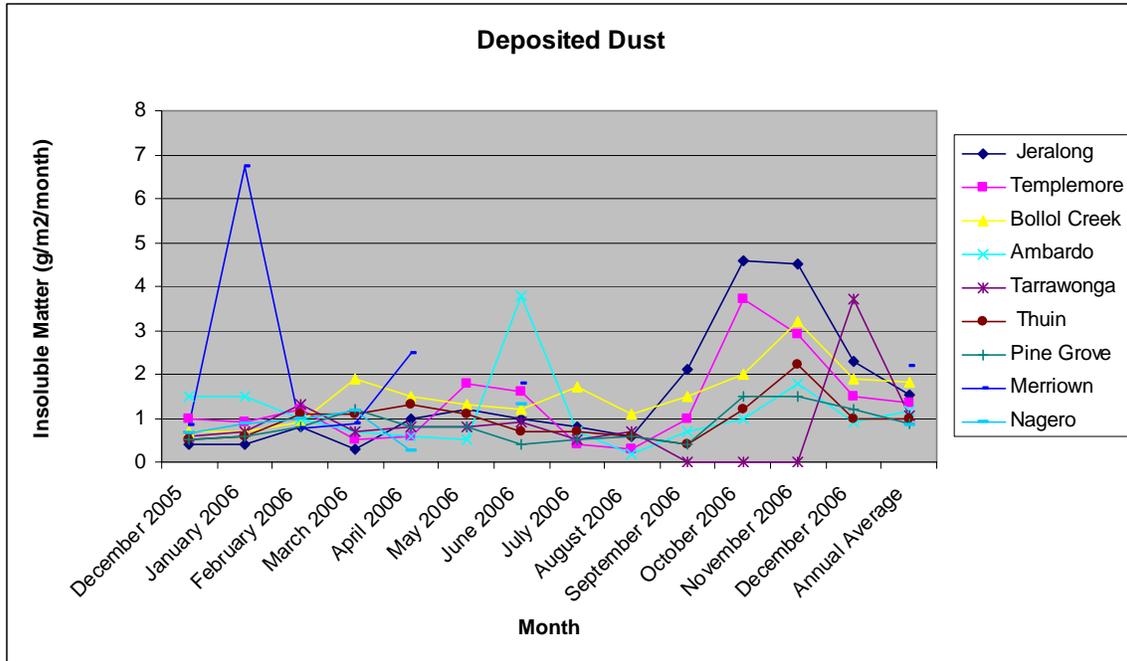
### Air Quality (PM<sub>10</sub>) Results

The annual average for PM10 readings is currently at 11.7 ug/m<sup>3</sup>, which is well below the annual average limit of 30ug/m<sup>3</sup>.

The highest 24hr reading was 42ug/m<sup>3</sup> which was recorded on the 24<sup>th</sup> November 2006. This reading was below the 24hr limit of 50ug/m<sup>3</sup>. It was noted at the time of this recording that a fire had been burning in Mt Kaputar and had created significant smoke haze in the general area.

### Air Quality (Dust Deposition) Results

| Month          | Jeralong | Templemore | Bolloi Creek | Ambardo | Tarrawonga | Thuin | Pine Grove |
|----------------|----------|------------|--------------|---------|------------|-------|------------|
| December 2005  | 0.4      | 1.0        | 0.7          | 1.5     | 0.6        | 0.5   | 0.5        |
| January 2006   | 0.4      | 0.9        | 0.7          | 1.5     | 0.7        | 0.6   | 0.6        |
| February 2006  | 0.8      | 1.2        | 0.9          | 1.0     | 1.3        | 1.1   | 0.8        |
| March 2006     | 0.3      | 0.5        | 1.9          | 0.7     | 0.7        | 1.1   | 1.2        |
| April 2006     | 1.0      | 0.6        | 1.5          | 0.6     | 0.8        | 1.3   | 0.8        |
| May 2006       | 1.2      | 1.8        | 1.3          | 0.5     | 0.8        | 1.1   | 0.8        |
| June 2006      | 1.0      | 1.6        | 1.2          | 3.8     | 0.9        | 0.7   | 0.4        |
| July 2006      | 0.8      | 0.4        | 1.7          | 0.7     | 0.5        | 0.7   | 0.5        |
| August 2006    | 0.6      | 0.3        | 1.1          | 0.2     | 0.7        | 0.6   | 0.6        |
| September 2006 | 2.1      | 1.0        | 1.5          | 0.7     | NS         | 0.4   | 0.4        |
| October 2006   | 4.6      | 3.7        | 2.0          | 1.0     | NS         | 1.2   | 1.5        |
| November 2006  | 4.5      | 2.9        | 3.2          | 1.8     | NS         | 2.2   | 1.5        |
| December 2006  | 2.3      | 1.5        | 1.9          | 0.9     | 3.7        | 1.0   | 1.2        |
| Annual Average | 1.92     | 1.33       | 1.80         | 1.18    | 0.78       | 0.98  | 0.83       |



The Deposited Dust levels have generally increased since the August result, which is indicative of hot, dry weather over the Spring/Summer period resulting in higher levels of dust deposition. The Jeralong sample in particular has shown a rise in deposited dust levels however this has begun to decrease over the last 2 months. It is noted that this monitor is close to Maules Creek road thereby indicating traffic, road works and the condition of the road may be a major contributing factor. All monitor sites remain well within the average annual criterion of 4mg/m<sup>2</sup>/month.

## Water Monitoring

### Ground Water

The Ground Water Monitoring Program involves monitoring at six monthly intervals. Monitoring occurred in June 2006, with the latest sampling undertaken in the first week of January 2007. We are currently awaiting the analysis from that sampling, which will be presented at the next CCC meeting.

### Surface Water

There have been no discharges from the site.

Water quality tests of water in storage dams are to be completed quarterly. The first monitoring of this occurred on the 8<sup>th</sup> of September. Due to lack of rain only four dams had water in them and were tested, the results of which are outlined below. Sampling was undertaken again in the 2<sup>nd</sup>

week of January 2007, and again was limited by a lack of water in storages. Water was sampled from only three storages and the mining void, with results presented below.

| <b>Date</b> | <b>Site ID</b> | <b>pH</b> | <b>EC</b> | <b>TSS</b> | <b>Grease &amp; Oil</b> |
|-------------|----------------|-----------|-----------|------------|-------------------------|
| 8/09/2006   | SD5            | 6.5       | 930       | 144        | <2                      |
|             | SD6            | 7.5       | 310       | 104        | <2                      |
|             | SD8            | 8.9       | 190       | 25         | <6*                     |
|             | SD9            | 9         | 285       | 1940       | <2                      |

\*Sample jar broke in transit – insufficient volume for full analysis.

| <b>Date</b> | <b>Site ID</b> | <b>pH</b> | <b>EC</b> | <b>TSS</b> | <b>Grease &amp; Oil</b> |
|-------------|----------------|-----------|-----------|------------|-------------------------|
| 11/01/2007  | SD5            | 8.4       | 3750      | 20         | <2                      |
|             | SD8            | 8.2       | 420       | 84         | *                       |
|             | SD9            | 8.6       | 440       | 15         | <2                      |
|             | MV1            | 7.7       | 3970      | 293        | <2                      |

\*Sample jar broke in transit – insufficient volume for full analysis.

# **Minutes of the 5th Meeting of the Tarrawonga Coal Mine Community Consultation Committee**

**Meeting Held:** Thursday 3<sup>rd</sup> May 2007 at 3:00pm

**Venue:** The meeting held at Tarrawonga Coal Mine Training Room

## **1. Present and Apologies**

**Present:** Clr. Ken Bates (Narrabri Shire Rep.) Chairman  
Mr. Peter Laird (Community Rep.)  
Mr. Bob McGregor (Community Rep.)  
Mr. Sandy Bull (Community Rep.)  
Mr. Bart Crosby (Community Rep.)  
Mr. Chris Burgess (Area Manager – Tarrawonga Mine)  
Mr. Tony Jones (Community Liaison Officer – Tarrawonga Mine)  
Mr. Danny Young (Environmental Manager – Tarrawonga Mine)

**Apologies:** Apology was received from Clr. Colleen Fuller (Gunnedah Shire Rep.) who was absent on council business

## **2. Previous Minutes**

The minutes from the previous meeting of Thursday 1<sup>st</sup> February 2007 were read and accepted as a true record on the motion of Sandy Bull and seconded by Peter Laird.

### **2.1 Business Arising**

#### **2.1.1 Flora and Fauna Management Plan**

The Flora and Fauna Management Plan has been approved by the Dept. of Planning.

#### **2.1.2 Intersection Poor Visibility**

The additional clearing of scrub and 'Coal Trucks Crossing Ahead' signs have been completed.

#### **2.1.3 Rainwater First Flush Diverters**

Following investigations it has been determined that first flush diverters on rain water tanks may be installed on properties within 2km of the mine. Sandy Bull and Bart Crosby have indicated they would like them installed.

#### **2.1.4 Coal Trucks Crossing Centre Line & Coal Spillage**

The issues of coal trucks crossing the centre line and coal spillage have been addressed with Toll, the new haulage contractor. Toll has engaged a contractor, Gunya C.D.E.P. to clear coal off road pavement and shoulders.

### 3. General Business

#### 3.1 Mine Progress

Area Manager, Chris Burgess reported that the new crusher will be dry commissioned end of week 11<sup>th</sup> May 2007.

The new Toll trucks will also begin arriving at the end of week 11<sup>th</sup> May 2007.

There are still some problems with delivery of coal with up to 70 ships waiting off coast. There is up to 50,000 tonnes of coal in the pit waiting to be taken out. Management of stockpiles is something of a problem.

Mine Inspectors recent visit, all OK. The audit of the new Coal Mine Regs, also OK.

#### 3.2 Environmental Monitoring Results

Environmental Manager, Danny Young, presented a detailed report on the environmental status and monitoring results. All readings were within the Consent parameters. A copy of the report was given to committee members.

### 4. New Business

Nil

### 5. Complaints

One complaint received from E.P.A. regarding a 'minor' discharge, but we were advised it was within our parameters.

Clr. Ken Bates raised the issue of speeding on dirt roads, but it was determined it was not within the company's power to control.

A complaint was made on Anzac Day regarding a driver speeding through cattle on the Manilla Road. It was determined not to have been one of our employees or contractors.

### 5. Next Meeting

The next meeting will be held at Tarrawonga Coal Mine Training Room on Thursday 16<sup>th</sup> August 2007 at 3:45pm.

Meeting closed at 5:30pm.

.....*K. Bates*..... 31/5/2007  
Ken Bates - Chairman

# Tarrawonga Coal Mine Community Consultative Committee Meeting #5

## Environmental Monitoring Report, February-April 2007

### Noise Monitoring

Operational and road noise monitoring (attended) was conducted in January as per consent requirements. The results from the January monitoring were not available at the time of the last CCC meeting. Those results have since been received and indicated that TCM did not exceed the noise criterion of 35 dB(A) at any time during the survey, as per the results presented below.

#### TCM Noise Monitoring Results – 24 January 2007 (Evening)

| <b>Location</b> | <b>Time</b> | <b>dB(A)</b> | <b>Wind<br/>Speed/Direction</b> | <b>Source</b>                                |
|-----------------|-------------|--------------|---------------------------------|--|
| N1 Templemore   | 7:58pm      | 40.9         | 2-3m/s, SE                      | Wind(38),<br>Birds(38), TCM<br>inaudible     |
| N2 Bollol Creek | 8:17pm      | 42.3         | 2-3m/s, SE                      | Insects(39),<br>Wind(38), TCM<br>inaudible   |
| N4 Ambardo      | 7:08pm      | 41.6         | 2-3m/s, SE                      | Wind(40),<br>Windmills(36),<br>TCM inaudible |
| N3 Tarrawonga   | 7:32pm      | 41.6         | 2-3m/s, SE                      | Wind(40),<br>Insects(36), TCM<br>inaudible   |

TCM Noise Monitoring Results – 24/25 January 2007 (night)

| Location        | Time    | dB(A) | Wind Speed/Direction | Source                               |
|-----------------|---------|-------|----------------------|--------------------------------------|
| N1 Templemore   | 11:49pm | 36.7  | 3-4m/s, SE           | Insects(36), TCM inaudible           |
| N2 Bollol Creek | 12:06am | 38.3  | 3-4m/s, SE           | Wind(36), Insects(35), TCM inaudible |
| N4 Ambardo      | 1:51am  | 35.3  | 3-4m/s, SE           | Wind(35), TCM inaudible              |
| N3 Tarrawonga   | 1:24am  | 34.1  | 3-4m/s, SE           | Wind(34), TCM inaudible              |

TCM Noise Monitoring Results – 25 January 2007 (day)

| Location        | Time    | dB(A) | Wind Speed/Direction | Source                                   |
|-----------------|---------|-------|----------------------|--|
| N1 Templemore   | 9:38am  | 35.6  | 1-2m/s, SE           | Birds(34), Insects(32), TCM inaudible    |
| N2 Bollol Creek | 10:02am | 34.4  | 1-2m/s, SE           | Birds(34), TCM inaudible                 |
| N4 Ambardo      | 8:17am  | 40.7  | 1-2m/s, SE           | Wind(38), Insects(34), TCM (26, Haulage) |
| N3 Tarrawonga   | 8:00am  | 38    | 1-2m/s, SE           | Birds(38), TCM inaudible                 |
| "Pine Grove"    | 8:36am  | 40.1  | 1-2m/s, SE           | Birds(39), TCM (<25, haulage)            |

Unattended noise monitoring by placement of data loggers also occurred in February, however equipment failure resulted in inability to retrieve data. As a consequence, data loggers were re-deployed in April following equipment repair and testing. These results will be presented at the next meeting.

Prior monitoring has indicated TCM to be compliant within consent requirements, with no additional activity at the mine site likely to contribute to additional noise levels. Monitoring of operational noise and road noise will continue on a quarterly basis as required under the consent conditions.

## Blasting Pressure

### Blasting Results

Since the first shot there have been 24 blasts.

All blasts have been compliant within the limits of 115dB(L) and 5mm/s.

The highest overpressure recorded was 114.2 dBL at Tarrawonga Station on the 1st of March 2007.

The highest ground vibration remains 0.94mm/s at Templemore on the 8<sup>th</sup> of June 2006.

No formal complaints in relation to blasting were recorded since the previous meeting.

## Air Quality

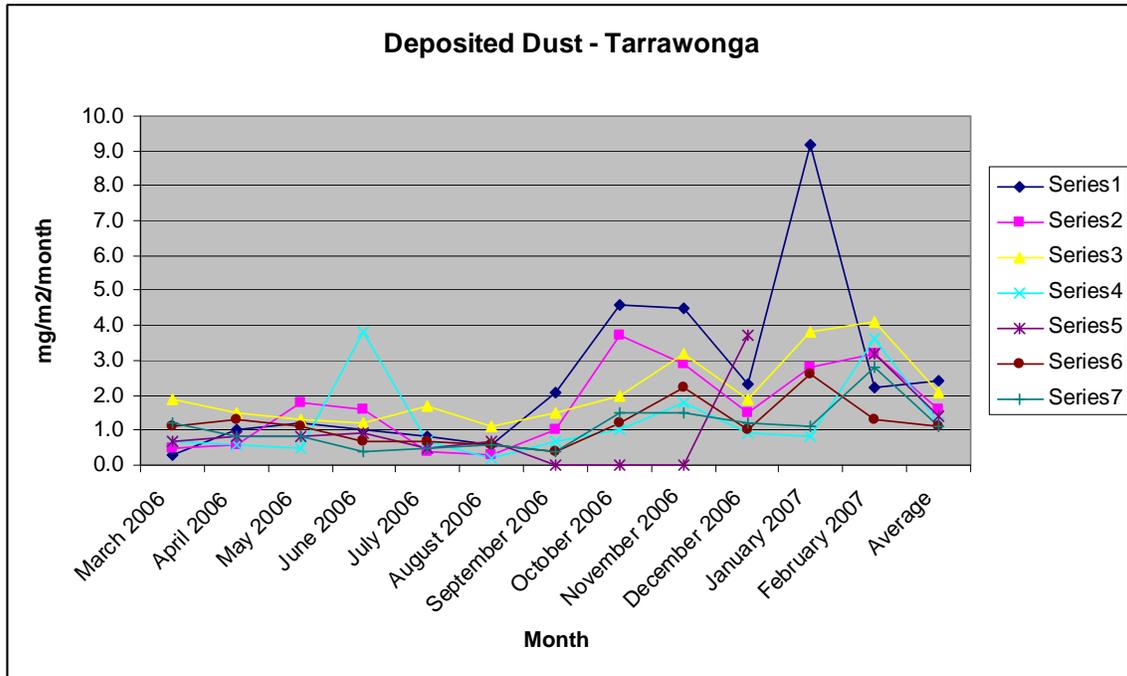
### Air Quality (PM<sub>10</sub>) Results

The annual average for PM10 readings is currently at 15.0 ug/m<sup>3</sup>, which is well below the annual average limit of 30ug/m<sup>3</sup>.

The highest 24hr reading was 44ug/m<sup>3</sup> which was recorded on the 22nd February 2007. This reading was below the 24hr limit of 50ug/m<sup>3</sup>.

### Air Quality (Dust Deposition) Results

| <b>Month</b>   | <b>Jeralong</b> | <b>Templemore</b> | <b>Bolloi Creek</b> | <b>Ambardo</b> | <b>Tarrawonga</b> | <b>Thuin</b> | <b>Pine Grove</b> |
|----------------|-----------------|-------------------|---------------------|----------------|-------------------|--------------|-------------------|
| March 2006     | 0.3             | 0.5               | 1.9                 | 0.7            | 0.7               | 1.1          | 1.2               |
| April 2006     | 1.0             | 0.6               | 1.5                 | 0.6            | 0.8               | 1.3          | 0.8               |
| May 2006       | 1.2             | 1.8               | 1.3                 | 0.5            | 0.8               | 1.1          | 0.8               |
| June 2006      | 1.0             | 1.6               | 1.2                 | 3.8            | 0.9               | 0.7          | 0.4               |
| July 2006      | 0.8             | 0.4               | 1.7                 | 0.7            | 0.5               | 0.7          | 0.5               |
| August 2006    | 0.6             | 0.3               | 1.1                 | 0.2            | 0.7               | 0.6          | 0.6               |
| September 2006 | 2.1             | 1.0               | 1.5                 | 0.7            | NS                | 0.4          | 0.4               |
| October 2006   | 4.6             | 3.7               | 2.0                 | 1.0            | NS                | 1.2          | 1.5               |
| November 2006  | 4.5             | 2.9               | 3.2                 | 1.8            | NS                | 2.2          | 1.5               |
| December 2006  | 2.3             | 1.5               | 1.9                 | 0.9            | 3.7               | 1.0          | 1.2               |
| January 2007   | 9.2             | 2.8               | 3.8                 | 0.8            | NS                | 2.6          | 1.1               |
| February 2007  | 2.2             | 3.2               | 4.1                 | 3.6            | 3.2               | 1.3          | 2.8               |
| <b>Average</b> | <b>2.48</b>     | <b>1.69</b>       | <b>2.1</b>          | <b>1.28</b>    | <b>1.41</b>       | <b>1.18</b>  | <b>1.1</b>        |



The Deposited Dust levels have generally increased since August last year, which is indicative of hot, dry weather over the Spring/Summer period resulting in higher levels of dust deposition. The Jeralong sample in particular has shown a rise in deposited dust levels however the last sample indicated a decrease as compared to a high reading in January. It is noted that this monitor is close to Maules Creek road thereby indicating traffic, road works and the condition of the road may be a major contributing factor. 2 additional monitors have been established in a line back to the mine site from the Jeralong monitor to assist in determining if road dust is the major contributing factor. All monitor sites remain well within the average annual criterion of 4mg/m<sup>2</sup>/month.

## Water Monitoring

### Ground Water

The Ground Water Monitoring Program requires full analysis at six monthly intervals. Monitoring first occurred in June 2006, with the latest sampling undertaken in the first week of January 2007. The results from that monitoring indicated that the chemical analysis from all sites was within prescribed limits with limited variability over the period in water level. Details of water level, pH, and electrical conductivity are presented below.

| Site | Date         | SWL   | pH  | Elect. Cond. |
|------|--------------|-------|-----|--------------|
| MW1  | June 06      | 8.54  | 7.5 | 6330         |
|      | January 07   | 9.22  | 7.1 | 2410         |
|      | April 07     | 7.49  |     |              |
| MW2  | June 06      | 4.39  | 7.0 | 5440         |
|      | January 07   | 4.62  | 6.8 | 511          |
|      | April 07     | 3.59  |     |              |
| MW4  | June 06      | 9.49  | 7.0 | 3290         |
|      | September 06 | 9.25  |     |              |
|      | January 07   | 9.37  | 7.1 | 3430         |
|      | April 07     |       |     |              |
| MW5  | June 06      | 3.38  | 6.9 | 1530         |
|      | September 06 | 3.64  |     |              |
|      | January 07   | 4.18  | 7.2 | 4870         |
|      | April 07     | 3.60  |     |              |
| MW6  | June 06      | 8.99  | 7.3 | 2030         |
|      | September 06 | 9.54  |     |              |
|      | January 07   | 9.81  | 6.9 | 2030         |
|      | April 07     |       |     |              |
| MW7  | June 06      | 74.2  | 7.2 | 2250         |
|      | September 06 | 80.52 |     |              |
|      | January 07   | 77.0  | 7.3 | 1960         |
|      | April 07     | 76.9  |     |              |
| MW8  | June 06      | 13.8  | 6.7 | 2240         |
|      | September 06 | 13.9  |     |              |
|      | January 07   | 14.1  | 6.7 | 2260         |
|      | April 07     | 13.6  |     |              |

## Surface Water

Water quality tests of water in storage dams are to be completed quarterly. The latest sampling was undertaken in April and we are currently awaiting those results. They will be presented at the next CCC meeting.

A minor discharge occurred from the site on 1<sup>st</sup> March 2007 following 23mm of rain. A sample was taken from the discharge point with the results presented below:

| <b>Date</b> | <b>Sample Site</b>   | <b>pH</b> | <b>EC</b> | <b>Total Suspended Solids</b> | <b>Oil &amp; Grease</b> |
|-------------|----------------------|-----------|-----------|-------------------------------|-------------------------|
| 1/03/07     | Bollol Ck Upstream   | 6.8       | 165       | 193                           | <2                      |
| 1/03/07     | Bollol Ck Downstream | 6.4       | 105       | 45                            | <2                      |
| 1/03/07     | Nagero Ck Upstream   | 7.0       | 105       | 78                            | 2                       |
| 1/03/07     | Nagero Ck Downstream | 6.5       | 65        | 304                           | <2                      |
| 1/03/07     | SD1                  | 7.5       | 540       | 524                           | 2                       |

This analysis indicates all parameters are within specified limits excluding Total Suspended Solids (TSS). The concentration limit for TSS is 50. In this particular case it is evident that the TSS level upstream of the mine site was already above the criteria range, and was significantly reduced at the downstream monitoring site of Bollol Creek. The level at the downstream monitor for Nagero Creek was significantly elevated as was the level in SD1. These levels are attributed to the extremely dry conditions at the time of the rainfall event, and lack of groundcover. Inspection of silt traps and sediment dams on site indicated they had restricted sediment flows as per the design, however the bare surface had resulted in some washouts leading to increased sediment flow. Minor restoration works and improved conditions to provide for reasonable groundcover should lead to a reduction in sediment loads in future events.

# Minutes of the 6th Meeting of the Tarrawonga Coal Mine Community Consultation Committee

**Meeting Held:** Thursday 16th August 2007 at 3:45pm

**Venue:** The meeting held at Tarrawonga Coal Mine Training Room

## 1. Present and Apologies

**Present:** Clr. Ken Bates (Narrabri Shire Rep.) Chairman  
Clr. Colleen Fuller (Gunnedah Shire Rep.)  
Mr. Bob McGregor (Community Rep.)  
Mr. Sandy Bull (Community Rep.)  
Mr. Bart Crosby (Community Rep.)  
Mr. Chris Burgess (Group Manager New Projects)  
Mr. Tony Jones (Community Liaison Officer – Tarrawonga Mine)  
Mr. Danny Young (Environmental Manager – Tarrawonga Mine)

**Apologies:** Apology was received from:  
Mr. Peter Laird (Community Rep.) and  
Mr. Matthew Laird (Community Rep.)

## 2. Previous Minutes

The minutes from the previous meeting of Thursday 3<sup>rd</sup> May 2007 were read and accepted as a true record on the motion of Sandy Bull and seconded by Colleen Fuller.

### 2.1 Business Arising

#### 2.1.1 Rainwater First Flush Diverters

Tony Jones is to organise rainwater first flush diverters for the houses of Sandy Bull and Bart Crosby.

#### 2.1.2 Coal Spillage

Gunnedah Gunya CDEP is now cleaning coal off road under contract to Toll.

## 3. General Business

### 5.1 Mine Progress

Chris Burgess advised the meeting of his new title and position as General Manager New Projects. He further advised that Casper Dieben would be undertaking much of the work he previously did. He advised that Casper would be invited to the next meeting.

Chris reported that the mine is now operating at close to its proposed output levels. He advised that the biggest restraint to production at the moment was the ability to rail coal. Work is proceeding on the construction of new passing loops, with the Gunnedah loop construction having commenced. There are some 40 to 70 ships still waiting off the port.

Chris reported that a successful trial of a 72 wagon train was carried out and some time early next year they will be used regularly giving an increased load to 5,500 tonnes per train, a 70% increase.

## 5.2 Environmental Monitoring Results

Environmental Manager, Danny Young, presented his Environmental Monitoring Report for May-July 2007. Results were generally within defined limits with the exception of complaints received regarding Blast #35 on 5<sup>th</sup> July. It is conceded that weather conditions were less than favourable for the blast and Tarrawonga Coal Mine have agreed that should conditions not be satisfactory in the future, blast will be postponed.

## 5.3 Committee Guidelines

The Chairman, Clr. Bates, drew the committee's attention to the guidelines for establishing and operating Community Consultative Committees. Copies were provided to all committee members.

## 4. New Business

Clr. Bates suggested we should advertise the hotline number again and give the names of the committee members.

## 5. Complaints

Mr. Bart Crosby raised the following concerns on behalf of himself and for other residents who had contacted him.

5.1 That truck movements were commencing well before 7:00am

5.2 That trucks were using Hoads Lane dirt section past "Gundawarra" instead of the haul road early am. Hoads Lane needs more regular maintenance.

5.3 Trucks are still going through 'stop' signs without stopping. (Identified one regular breach by an old yellow Mack)

5.4 Signs on trucks were often indecipherable making it hard to identify those who infringe rules.

5.5 Trucks were speeding through intersections too quickly, particularly from the haul road south onto MR 237 causing them to cross over all 4 lanes. Mr. Crosby had to take evasive action to avoid a collision because the truck was on the wrong side of the road.

5.6 Some trucks were still using exhaust brakes.

5.7 Toll trucks are the noisiest. This may be the older Toll trucks

## 6. Next Meeting

The next meeting will be held at Tarrawonga Coal Mine Training Room on Thursday 1<sup>st</sup> November 2007 at 4:30pm.

Meeting closed at 5:00pm

..... *K Bates* ..... 21/9/2007  
Ken Bates - Chairman

# Tarrawonga Coal Mine Community Consultative Committee Meeting #6

## Environmental Monitoring Report, May – July 2007

### Noise Monitoring

Both attended and unattended noise monitoring has been carried out by Spectrum Acoustics since the last CCC meeting. The results of each of these monitoring events are outlined below.

#### **Attended Monitoring:**

##### TCM Noise Monitoring Results – 19<sup>th</sup> April 2007 (Evening)

| Location        | Time   | dB(A), Leq | Wind Speed/direction | Source                                  |
|-----------------|--------|------------|----------------------|---|
| N3 Tarrawonga   | 6:55pm | 31.2       | 0-1m/s, SE           | Insects(31),<br>TCM inaudible           |
| N1 Templemore   | 9:33pm | 26.4       | Calm                 | Pump(26),<br>TCM(<25), TCM<br>inaudible |
| N2 Bollol Creek | 9:47pm | 28.5       | Calm                 | Birds(28), TCM<br>inaudible             |
| N4 Ambardo      | 9:58pm | 26.4       | 0-1m/s, SE           | Insects(26),<br>TCM inaudible           |

##### TCM Noise Monitoring Results – 20<sup>th</sup> April 2007 (Night)

| Location        | Time    | dB(A), Leq | Wind Speed/direction | Source                        |
|-----------------|---------|------------|----------------------|-------------------------------|
| N1 Templemore   | 12:51am | 29         | Calm                 | Insects(26),<br>TCM(26)       |
| N2 Bollol Creek | 1:02am  | 30.5       | Calm                 | Insects(27),<br>TCM(27)       |
| N4 Ambardo      | 1:23am  | 25.6       | 0-1m/s, SE           | TCM inaudible                 |
| N3 Tarrawonga   | 1:41am  | 26.7       | 3-4m/s, SE           | Insects(26),<br>TCM inaudible |

### TCM Noise Monitoring Results – 20<sup>th</sup> April 2007 (Day)

| Location        | Time    | dB(A), Leq | Wind Speed/direction | Source                        |
|-----------------|---------|------------|----------------------|-------------------------------|
| N1 Templemore   | 8:53am  | 36.7       | 1-2m/s, E            | Birds(36), TCM inaudible      |
| N2 Bollol Creek | 9:15am  | 37.7       | 1-2m/s, E            | Birds(37), TCM inaudible      |
| N3 Tarrawonga   | 9:38am  | 33.6       | 1-2m/s, E            | Birds(33), TCM inaudible      |
| N4 Ambardo      | 9:57am  | 48         | 1-2m/s, SE           | Birds(48), TCM (19, haulage)  |
| “Pine Grove”    | 10:26am | 46.2       | 0-1m/s, SE           | Birds(46), TCM (<25, haulage) |

As identified by the results, Tarrawonga Coal Mine (TCM) did not exceed the noise criterion at any of the monitoring locations during the April survey. Winds during the survey were generally from the east to southeast which would serve to reduce TCM noise levels at all receivers.

Additional attended noise monitoring was undertaken in July, with results presented below.

### TCM Noise Monitoring Results – 11<sup>th</sup> July (Day)

| Location                 | Time    | dB(A), Leq | Wind Speed/Direction | Source                                       |
|--------------------------|---------|------------|----------------------|--|
| N2 Bollol Creek          | 11:35am | 37.2       | 2-3 m/s, SE          | Birds(35), TCM inaudible                     |
| N1 Templemore            | 11:42am | 35.3       | 2-3 m/s, SE          | Wind(35), TCM inaudible                      |
| N4 Ambardo               | 11:59am | 46.2       | 1-2 m/s, SE          | Birds(45), TCM(31), Traffic(30) <sup>1</sup> |
| “Pine Grove”(19 July 07) | 6:32am  | 47.1       | Calm                 | Birds(46), TCM(40).                          |

<sup>1</sup>TCM trucks on the Manilla Road section of the haul route. Criterion on this section is 60 dB(A).

### TCM Noise Monitoring Results – 10<sup>th</sup> July (Evening)

| Location        | Time   | dB(A), Leq | Wind Speed/Direction | Source                              |
|-----------------|--------|------------|----------------------|-------------------------------------|
| N4 Ambardo      | 8:10pm | 40.2       | 0-1 m/s, SE          | Traffic(37) <sup>1</sup> , TCM(36). |
| N2 Bollol Creek | 8:58pm | 28.3       | Calm                 | Birds(28), TCM inaudible            |
| N1 Templemore   | 9:21pm | 23.2       | Calm                 | Wind(23), TCM inaudible             |

<sup>1</sup>TCM trucks on the Manilla Road section of the haul route. Criterion on this section is 60 dB(A).

### TCM Noise Monitoring Results – 10<sup>th</sup> July (Night)

| Location        | Time     | dB(A),Leq | Wind Speed/Direction | Source                              |
|-----------------|----------|-----------|----------------------|-------------------------------------|
| N1 Templemore   | 11:11pm  | 29.7      | Calm                 | Pump(27), TCM inaudible             |
| N2 Bollol Creek | 11:28 pm | 22.6      | Calm                 | No identified Source, TCM inaudible |
| N4 Ambardo      | 11:51 pm | 24.2      | Calm                 | No identified Source, TCM inaudible |

As identified in the tables, noise monitoring results were compliant at all receivers except at “Pine Grove” which returned a TCM derived noise source of 40 dB(A) on the 11<sup>th</sup>, and at “Ambardo” which returned a TCM derived noise source of 36 dB(A) on the evening of the 10<sup>th</sup>. This resulted in exceedance of noise criteria of 5 dB(A) at “Pine Grove” and 1 dB(A) at “Ambardo”. As the monitoring event was an attended event, the acoustical consultant was able to identify the source of the exceedance at both sites as being empty haul trucks crossing the grids at the entrance to the haul roads, with the grid at the entrance to the western haul road being the noise source for “Ambardo” and the grid at the entrance to the eastern haul road being the noise source for “Pine Grove”. Conditions at the time of monitoring contributed to the noise levels, with cold frosty conditions at “Pine Grove” reducing the capacity for the air and ground to absorb sound, and a southerly breeze at “Ambardo” contributing to the carriage of sound to the monitor. As a consequence of the exceedance, action is now underway to remove both grids from the haul roads to ensure compliance with the relevant criteria.

### Unattended Monitoring:

As part of the consent for the Tarrawonga Coal Mine, unattended noise monitoring is also required on a quarterly basis by use of data loggers. The results of the unattended monitoring are shown below:

### TCM Unattended Noise Monitoring Results – “Templemore”

| Date        | Leq(day)  | Leq(eve)  | Leq(night) | L90(day)  | L90(eve)  | L90(night) |
|-------------|-----------|-----------|------------|-----------|-----------|------------|
| 20/04/2007  | 46.0      | 37.1      | 40.3       | 24.4      | 19.7      | 16.5       |
| 21/04/2007  | 43.3      | 37.3      | 45.4       | 24.2      | 19.5      | 17.3       |
| 22/04/2007  | 45.1      | 39.5      | 39.7       | 24.2      | 18.9      | 19.5       |
| 23/04/2007  | 47.3      | 34.2      | 48.6       | 23.5      | 22.6      | 16.6       |
| 24/04/2007  | 48.8      | 41.7      | 45.5       | 23.1      | 23.9      | 17.3       |
| 25/04/2007  | 49.6      | 38.3      | 39.1       | 25.6      | 21.1      | 18.4       |
| 26/04/2007  | 47.8      | 40.0      | 38.6       | 27.7      | 22.1      | 21.1       |
| <b>LAeq</b> | <b>47</b> | <b>39</b> | <b>44</b>  | <b>-</b>  | <b>-</b>  | <b>-</b>   |
| <b>L90</b>  | <b>-</b>  | <b>-</b>  | <b>-</b>   | <b>24</b> | <b>22</b> | <b>18</b>  |

| Date        | Leq(day)  | Leq(eve)  | Leq(night) | L90(day)  | L90(eve)  | L90(night) |
|-------------|-----------|-----------|------------|-----------|-----------|------------|
| 11/07/2007  |           | 30.4      | 37.1       | 22.2      | 21.4      | 19.6       |
| 12/07/2007  | 43.6      | 27.6      | 37.9       | 23.3      | 18.2      | 18.1       |
| 13/07/2007  | 40.9      | 29.8      | 35.6       | 21.7      | 19.8      | 18.1       |
| 14/07/2007  | 41.8      | 19.7      | 37.6       | 18.2      | 18.1      | 18.1       |
| 15/07/2007  | 41.5      | 21.5      | 37.7       | 18.2      | 18.1      | 18.1       |
| 16/07/2007  | 50.5      | 26.6      | 36.3       | 18.4      | 18.7      | 18.1       |
| 17/07/2007  | 43.1      | 30.9      | 37.4       | 19.1      | 25.0      | 18.1       |
| <b>LAeq</b> | <b>45</b> | <b>28</b> | <b>37</b>  | --        | --        | --         |
| <b>L90</b>  | --        | --        | --         | <b>19</b> | <b>18</b> | <b>18</b>  |

TCM Unattended Noise Monitoring Results – “Bollol Creek”

| Date        | Leq(day)  | Leq(eve)  | Leq(night) | L90(day)  | L90(eve)  | L90(night) |
|-------------|-----------|-----------|------------|-----------|-----------|------------|
| 20/04/2007  | 44.0      | 39.4      | 40.5       | 28.7      | 22.7      | 21.1       |
| 21/04/2007  | 49.6      | 38.1      | 35.5       | 27.6      | 21.1      | 21.1       |
| 22/04/2007  | 45.2      | 45.2      | 42.6       | 26.2      | 21.2      | 21.1       |
| 23/04/2007  | 50.2      | 43.8      | 47.8       | 23.4      | 21.3      | 21.1       |
| 24/04/2007  | 64.3      | 40.5      | 36.4       | 26.6      | 26.9      | 22.0       |
| 25/04/2007  | 52.1      | 39.5      | 37.6       | 26.6      | 22.1      | 21.1       |
| 26/04/2007  | 51.4      | 38.4      | 39.9       | 25.8      | 21.3      | 21.1       |
| <b>LAeq</b> | <b>57</b> | <b>42</b> | <b>42</b>  | -         | -         | -          |
| <b>L90</b>  | -         | -         | -          | <b>26</b> | <b>21</b> | <b>21</b>  |

| Date        | Leq(day)  | Leq(eve)  | Leq(night) | L90(day)  | L90(eve)  | L90(night) |
|-------------|-----------|-----------|------------|-----------|-----------|------------|
| 19/07/2007  | 44.4      | 28.1      | 44.0       | 22.7      | 17.3      | 16.5       |
| 20/07/2007  | 50.9      | 25.5      | 44.6       | 24.3      | 16.1      | 16.1       |
| 21/07/2007  | 50.1      | 23.5      | 42.4       | 16.8      | 16.1      | 16.2       |
| 22/07/2007  | 47.8      | 27.0      | 47.9       | 17.4      | 16.1      | 16.1       |
| 23/07/2007  | 48.8      | 24.1      | 44.8       | 18.1      | 16.5      | 16.7       |
| 24/07/2007  | 52.5      | 25.0      | 41.9       | 19.9      | 19.3      | 18.0       |
| 25/07/2007  | 55.0      | 27.1      | 46.6       | 18.5      | 17.1      | 16.9       |
| <b>LAeq</b> | <b>51</b> | <b>26</b> | <b>45</b>  | --        | --        | --         |
| <b>L90</b>  | --        | --        | --         | <b>18</b> | <b>16</b> | <b>16</b>  |

TCM Unattended Noise Monitoring Results – “Tarrawonga”

| Date        | Leq(day)  | Leq(eve)  | Leq(night) | L90(day)  | L90(eve)  | L90(night) |
|-------------|-----------|-----------|------------|-----------|-----------|------------|
| 25/01/2007  | 42.3      | 35.8      | 36.3       | 23.4      | 23.2      | 24.3       |
| 26/01/2007  | 41.7      | 40.5      | 31.2       | 22.5      | 24.4      | 21.4       |
| 27/01/2007  | 56.7      | 39.5      | 36.3       | 30.3      | 26.7      |            |
| <b>LAeq</b> | <b>52</b> | <b>39</b> | <b>35</b>  | -         | -         | -          |
| <b>L90</b>  | -         | -         | -          | <b>26</b> | <b>21</b> | <b>21</b>  |

Only 3 days of data as logger battery lost charge after 3 days.

Monitoring no longer undertaken at Tarrawonga – residence unoccupied

### TCM Unattended Noise Monitoring Results – “Ambardo”

| Date        | Leq(day)  | Leq(eve)  | Leq(night) | L90(Day)  | L90(eve)  | L90(night) |
|-------------|-----------|-----------|------------|-----------|-----------|------------|
| 2/02/2007   | 33.0      | 46.4      | 33.0       | 18.9      | 28.8      | 23.0       |
| 3/02/2007   | 35.6      | 45.2      | 38.5       | 18.3      | 26.9      | 20.2       |
| 4/02/2007   | 37.4      | 48.5      | 46.3       | 18.2      | 30.3      | 20.7       |
| 5/02/2007   | 38.7      | 43.5      | 40.4       | 18.5      | 18.3      | 22.9       |
| 6/02/2007   | 38.2      | 43.7      | 40.0       | 18.6      | 18.5      | 25.2       |
| 7/02/2007   | 44.7      | 45.1      | 43.1       | 19.4      | 30.5      | 25.9       |
| 8/02/2007   | 41.7      | 45.2      | 50.7       | 21.9      | 19.5      | 27.9       |
| <b>LAeq</b> | <b>40</b> | <b>46</b> | <b>45</b>  | -         | -         | -          |
| <b>L90</b>  | -         | -         | -          | <b>19</b> | <b>27</b> | <b>23</b>  |

| Date        | Leq(day)  | Leq(eve)  | Leq(night) | L90(day)  | L90(eve)  | L90(night) |
|-------------|-----------|-----------|------------|-----------|-----------|------------|
| 19/07/2007  | 46.3      | 36.3      | 40.1       | 21.3      | 21.1      | 21.1       |
| 20/07/2007  | 46.0      | 37.6      | 41.0       | 26.9      | 21.1      | 21.1       |
| 21/07/2007  | 45.0      | 33.9      | 41.1       | 21.2      | 21.1      | 21.1       |
| 22/07/2007  | 46.3      | 22.7      | 51.2       | 21.1      | 21.1      | 21.1       |
| 23/07/2007  | 46.7      | 37.7      | 50.1       | 21.5      | 21.1      | 21.1       |
| 24/07/2007  | 50.7      | 35.5      | 49.3       | 24.6      | 21.1      | 21.1       |
| 25/07/2007  | 52.4      | 35.7      | 48.2       | 27.7      | 22.1      | 21.1       |
| <b>LAeq</b> | <b>48</b> | <b>36</b> | <b>48</b>  | --        | --        | --         |
| <b>L90</b>  | --        | --        | --         | <b>21</b> | <b>21</b> | <b>21</b>  |

Noise loggers for the unattended monitoring record the total acoustic environment, and in this regard, it is not possible to identify or assign noise levels to the various contributing sources. As a consequence, there is no way of telling the extent to which TCM operations have contributed to the overall noise level. It is TCM's view that unattended noise monitoring serves very little purpose in this regard, and will raise the matter with the EPA to determine if the requirement for unattended noise monitoring could be removed. It is noted that in the Noise Management Plan for TCM, unattended noise monitoring was identified as required for the first 12 months only.

### **Blast Monitoring**

#### **Blasting Results**

Since the first shot there have been 41 blasts.

All blasts have been compliant within the limits of 115dBL and 5mm/s excluding blast 35 on the 5<sup>th</sup> July 2007 which exceeded the peak overpressure criteria at Bollol Creek Station. The peak overpressure recorded on this occasion was 117.0 dBL. The prevailing weather conditions at the time of this particular blast contributed to the exceedance in peak overpressure. The blast took place at 4:30pm in the afternoon which coincided with full cloud cover, high moisture levels and westerly winds gusting up to 40km/hr.

TCM have acknowledged that the blast should not have proceeded under these conditions. Discussions have been held with TCM personnel that more consideration to prevailing conditions is required prior to future blasts, and in circumstances where conditions are not conducive to blasting, the blast is to be postponed.

To date, the highest overpressure recorded is 117.0 dBL recorded at “Bollol Creek Station” on the 5<sup>th</sup> July 2007. The highest ground vibration recorded is 0.99 mm/s recorded at “Bollol Creek Station” and “Templemore” on the 15<sup>th</sup> June 2007.

Following the blast on the 5<sup>th</sup> July, 2007, two formal complaints in relation to blasting were made. Discussions were held with the first complainant during which the reasons for exceedance were explained, and an offer made to undertake a baseline structural survey of their residence to enable ongoing monitoring and rectification if required. The complainant did not wish to take up this offer. The second complaint was made direct to the Department of Environment and Climate Change (DECC) who contacted the Environmental Manager. DECC was provided the full set of data from our blast monitoring program. DECC advised it would conduct its own investigation and request additional information of TCM if required. To date, no additional requests have been made of TCM by DECC.

## Air Quality

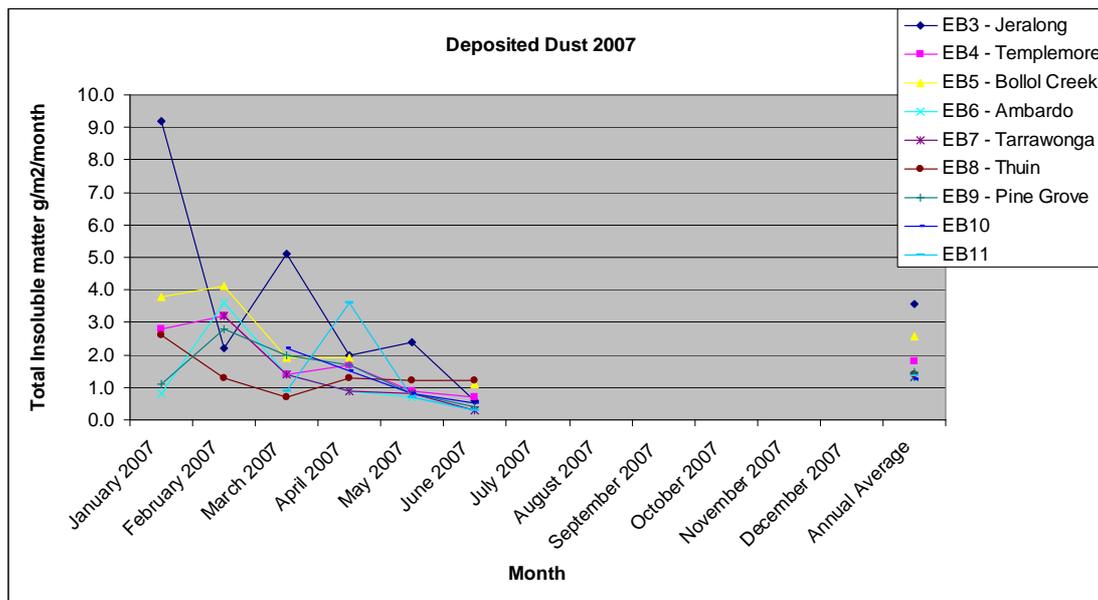
### PM10 Results

The annual average for PM10 readings is currently at 15.4ug/m<sup>3</sup>, which is well below the annual average limit of 30ug/m<sup>3</sup>.

The highest 24hr reading was 49ug/m<sup>3</sup> which was recorded on the 5<sup>th</sup> May 2007, which remained below the 24hr limit of 50ug/m<sup>3</sup>. Since this reading, the PM10 has averaged 6ug/m<sup>3</sup>, and is indicating a downward trend in PM10 levels.

### Air Quality (Dust Deposition) Results

| Month                 | Jeralong   | Templemore | Bollol Creek | Ambardo    | Tarrawonga | Thuin      | Pine Grove |
|-----------------------|------------|------------|--------------|------------|------------|------------|------------|
| <b>July 2006</b>      | 0.8        | 0.4        | 1.7          | 0.7        | 0.5        | 0.7        | 0.5        |
| <b>August 2006</b>    | 0.6        | 0.3        | 1.1          | 0.2        | 0.7        | 0.6        | 0.6        |
| <b>September 2006</b> | 2.1        | 1.0        | 1.5          | 0.7        | NS         | 0.4        | 0.4        |
| <b>October 2006</b>   | 4.6        | 3.7        | 2.0          | 1.0        | NS         | 1.2        | 1.5        |
| <b>November 2006</b>  | 4.5        | 2.9        | 3.2          | 1.8        | NS         | 2.2        | 1.5        |
| <b>December 2006</b>  | 2.3        | 1.5        | 1.9          | 0.9        | 3.7        | 1.0        | 1.2        |
| <b>January 2007</b>   | 9.2        | 2.8        | 3.8          | 0.8        | NS         | 2.6        | 1.1        |
| <b>February 2007</b>  | 2.2        | 3.2        | 4.1          | 3.6        | 3.2        | 3.2        | 2.8        |
| <b>March 2007</b>     | 5.1        | 1.4        | 1.9          | 1.4        | 1.4        | 0.7        | 2.0        |
| <b>April 2007</b>     | 2.0        | 1.7        | 1.9          | 0.9        | 0.9        | 1.3        | 1.7        |
| <b>May 2007</b>       | 2.4        | 0.9        | NS           | 0.7        | 0.8        | 1.2        | 0.8        |
| <b>June 2007</b>      | 0.6        | 0.7        | 1.1          | 0.3        | 0.3        | 1.2        | 0.4        |
| <b>Average</b>        | <b>3.0</b> | <b>1.7</b> | <b>2.2</b>   | <b>1.1</b> | <b>1.4</b> | <b>1.4</b> | <b>1.2</b> |



The deposited dust levels have shown a general decline since the start of 2007, coinciding with more frequent rainfall and cooler conditions. The “Jeralong” sample, which has consistently produced higher dust levels than the other monitors has also shown a decline, however remains significantly higher as compared to other sites. As identified at the previous CCC meeting, two additional monitors were established in a line from “Jeralong” back to the mine site in an effort to attribute the consistent high dust levels at the “Jeralong” monitor to dust from Maules Creek Road. Results from these two monitors EB10 and EB11 do show a consistently lower value as compared to “Jeralong” and in this regard a request to vary the TCM Environment Protection Licence by the removal of the “Jeralong” monitor will be made to the DECC. The basis of this request will be that dust from Maules Creek Road is the major contributing factor to the “Jeralong” results, and that it be replaced with the two monitors EB10 and EB11 which are in closer proximity to the TCM and further away from adjoining unsealed roads.

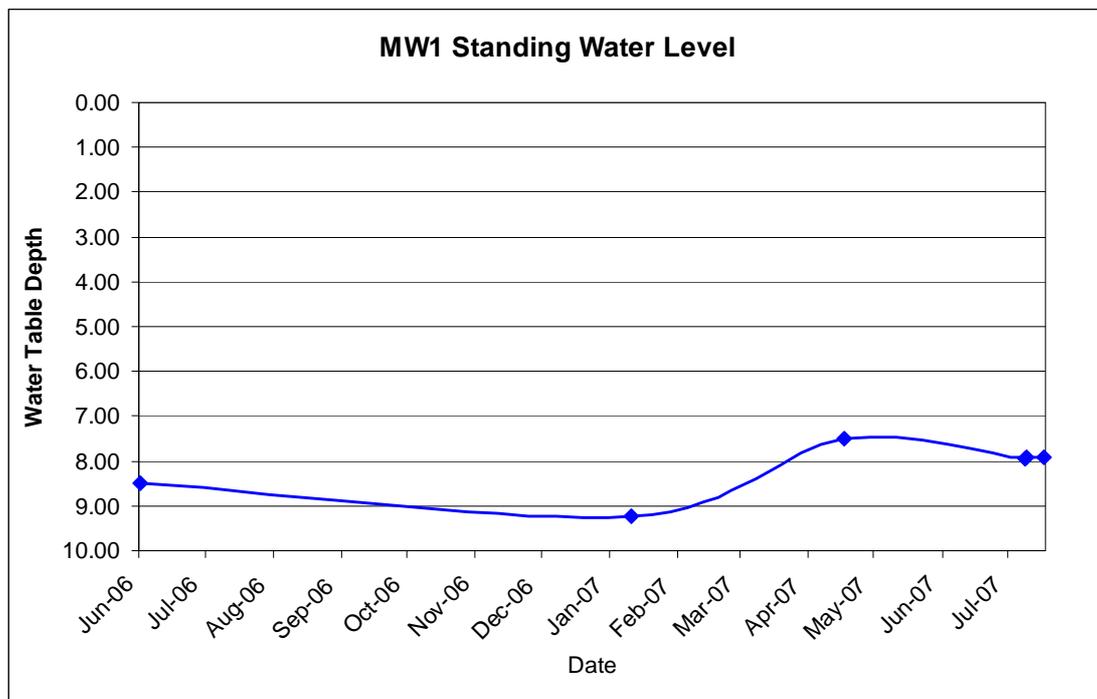
As can be identified from the above table and graph, all monitors remain well within the average annual criterion of 4mg/m<sup>2</sup>/month.

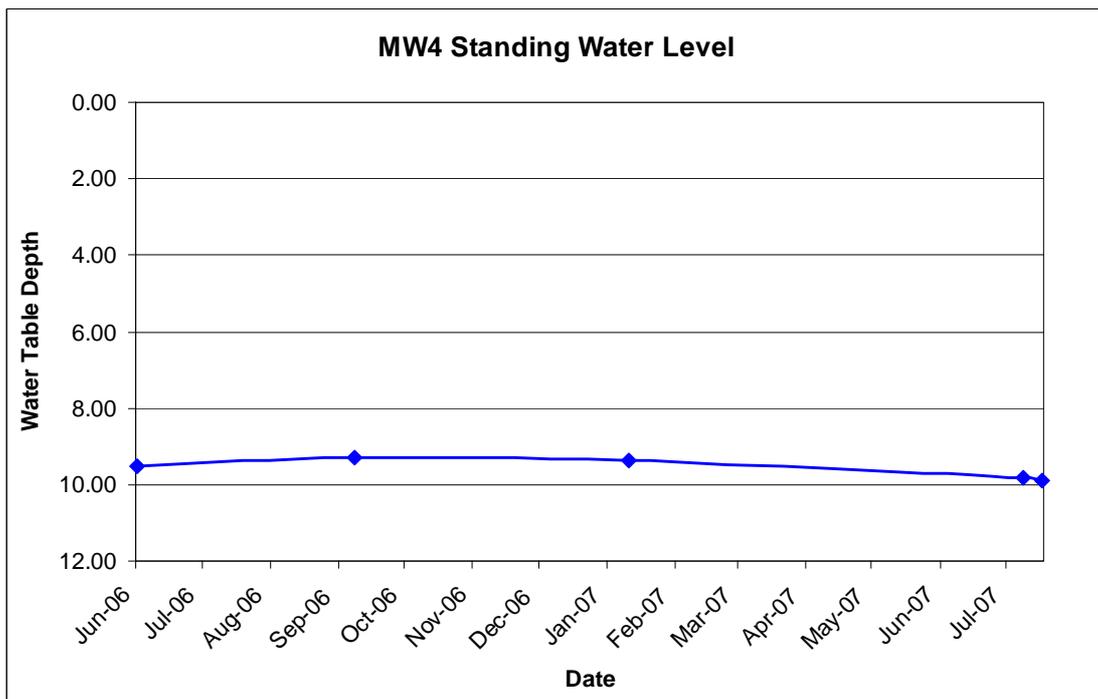
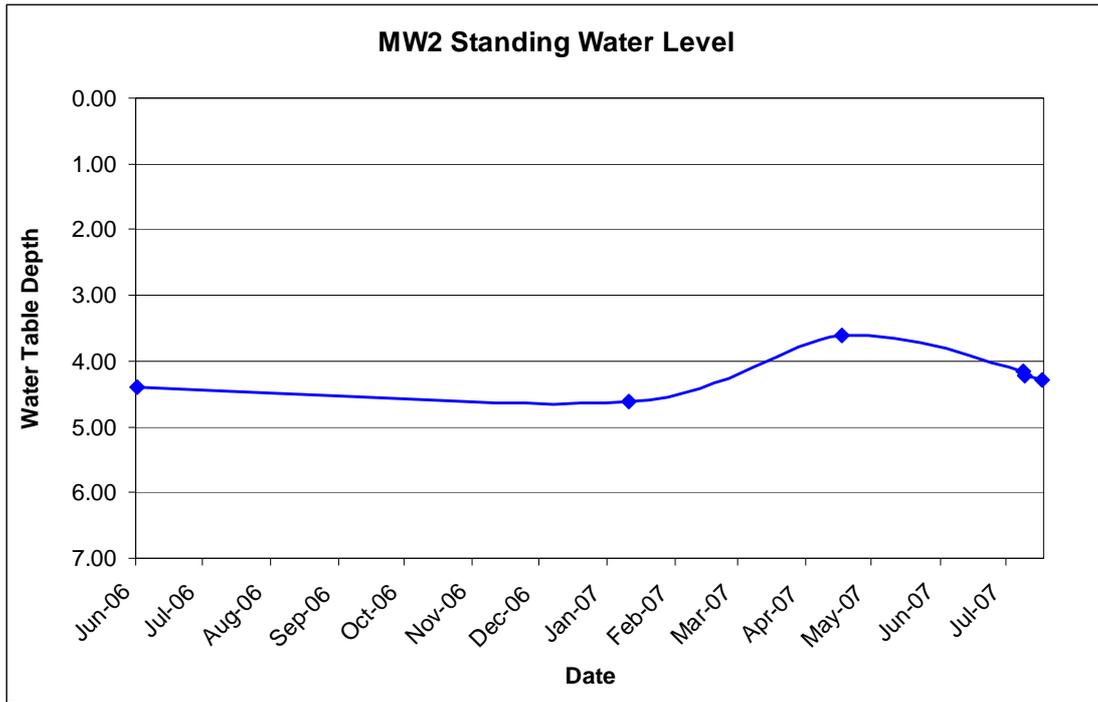
## Water Monitoring

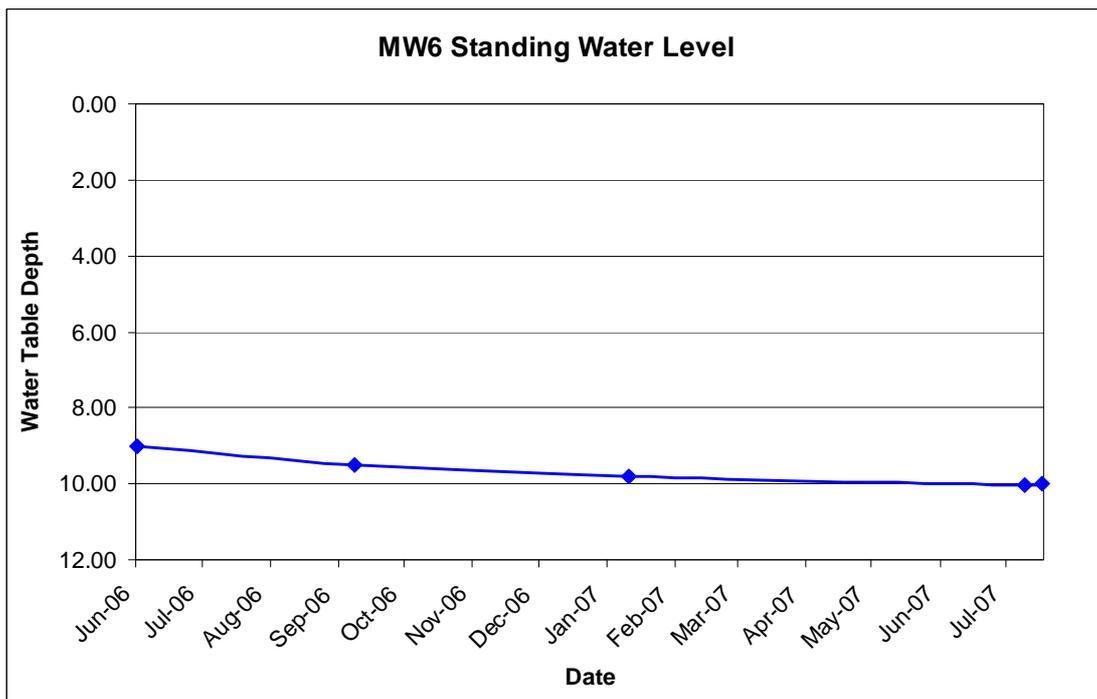
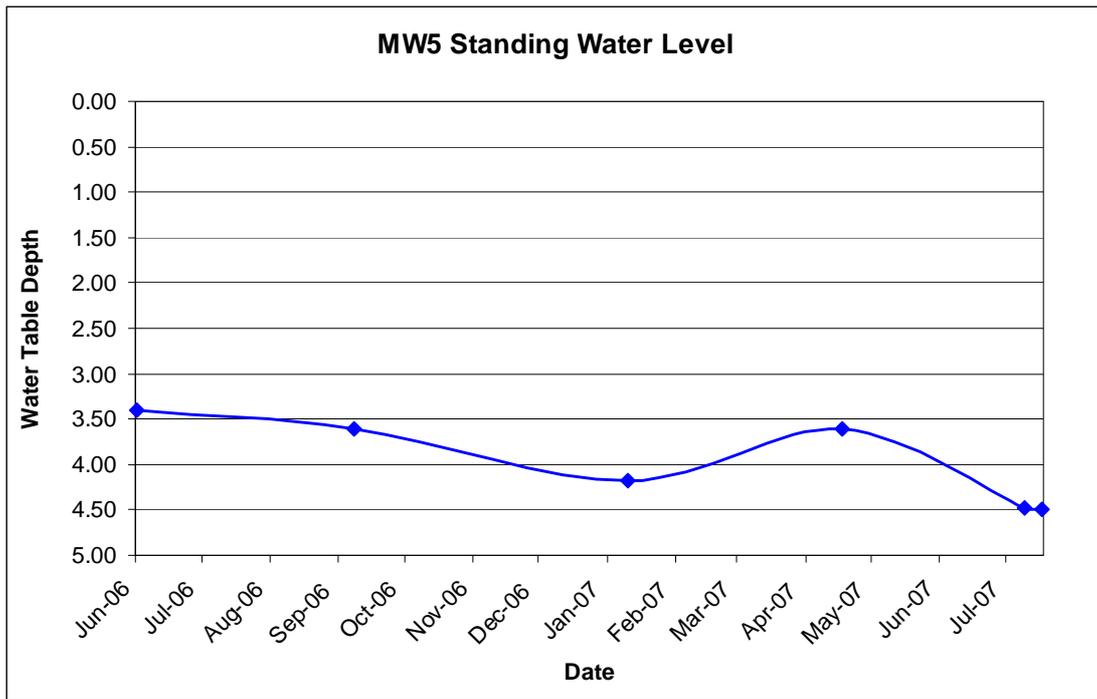
### **Ground Water**

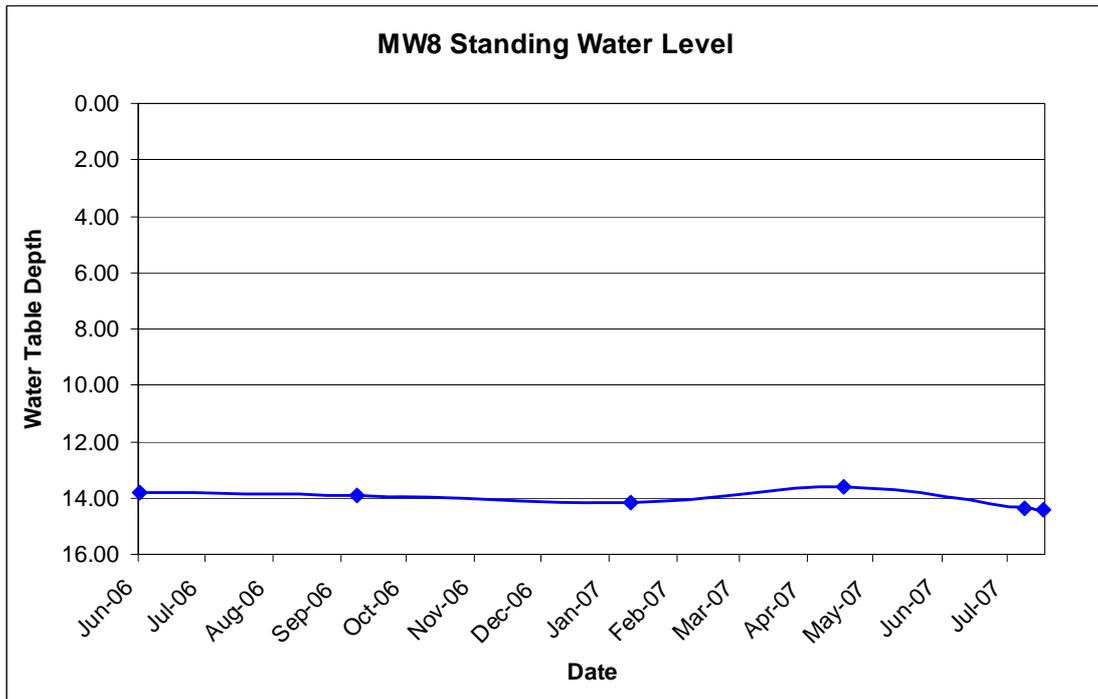
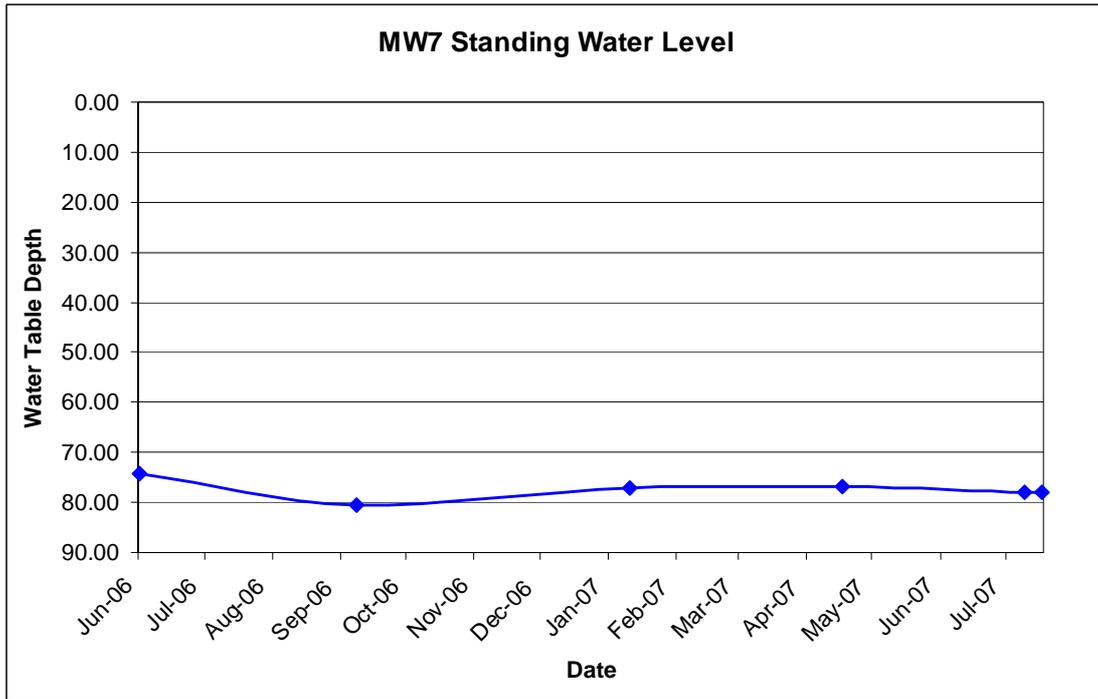
The 6 monthly ground water monitoring was undertaken in July with consultants, RCA. The chemical analysis from that monitoring has not yet been received, however the water levels in each of the monitoring locations has been included in the table and graphs below.

| Site       | Date         | SWL (m) | pH  | Elect. Conduct |
|------------|--------------|---------|-----|----------------|
| <b>MW1</b> | June 06      | 8.54    | 7.5 | 6330           |
|            | January 07   | 9.22    | 7.1 | 2410           |
|            | April 07     | 7.49    |     |                |
|            | July 07      | 7.91    |     |                |
| <b>MW2</b> | June 06      | 4.39    | 7.0 | 5440           |
|            | January 07   | 4.62    | 6.8 | 511            |
|            | April 07     | 3.59    |     |                |
|            | July 07      | 4.29    |     |                |
| <b>MW4</b> | June 06      | 9.49    | 7.0 | 3290           |
|            | September 06 | 9.25    |     |                |
|            | January 07   | 9.37    | 7.1 | 3430           |
|            | July 07      | 9.88    |     |                |
| <b>MW5</b> | June 06      | 3.38    | 6.9 | 1530           |
|            | September 06 | 3.64    |     |                |
|            | January 07   | 4.18    |     |                |
|            | April 07     | 3.60    |     |                |
| <b>MW6</b> | June 06      | 8.99    | 7.3 | 2030           |
|            | September 06 | 9.54    |     |                |
|            | January 07   | 9.81    | 6.9 | 2030           |
|            | July 07      | 10.01   |     |                |
| <b>MW7</b> | June 06      | 74.2    | 7.2 | 2250           |
|            | September 06 | 80.52   |     |                |
|            | January 07   | 77.0    | 7.3 | 1960           |
|            | April 07     | 76.9    |     |                |
| <b>MW8</b> | June 06      | 13.8    | 6.7 | 2240           |
|            | September 06 | 13.9    |     |                |
|            | January 07   | 14.1    | 6.7 | 2260           |
|            | April 07     | 13.6    |     |                |
|            | July 07      | 14.41   |     |                |









The results indicate some minor variability in the ground water levels at each of the TCM monitoring bores, with most indicating a partial recharge coinciding with rainfalls from March to June 07. Monitoring undertaken to date does not indicate any significant impact on groundwater levels on monitors within and adjacent to the TCM site. Monitoring will continue on a quarterly basis to generate additional data over time in order to establish ongoing trends in groundwater levels at our monitoring sites.

## Surface Water

Water quality tests of water in storage dams is undertaken quarterly. The results from sampling in April 07 are presented below. Sampling was again undertaken in July with the result not yet available. They will be presented at the next CCC meeting.

| Date       | Sample Site | pH  | EC   | Total Suspended Solids | Oil & Grease |
|------------|-------------|-----|------|------------------------|--------------|
| 18/04/2007 | SD1         | 8.6 | 605  | 86                     | <2           |
| 18/04/2007 | SD2         | 8.5 | 395  | 102                    | <2           |
| 18/04/2007 | SD8         | 8.6 | 270  | 36                     | <2           |
| 18/04/2007 | SD9         | 8.4 | 310  | 133                    | <2           |
| 18/04/2007 | SD20        | 9.1 | 520  | 80                     | <2           |
| 18/04/2007 | MV          | 7.8 | 4260 | <2                     | <2           |

As there is no discharge associated with these results there is no criteria applicable. The results do however indicate low levels of oil and grease and reasonable levels for total suspended solids given the dry conditions and low levels of water in storages that persisted prior to this sampling round.

There have been no instances of wet weather discharge since the last reported event in March 07.

### **Submission of Annual Environmental Management Report**

The Annual Environmental Management Report for the Tarrawonga Coal Mine has been submitted to the relevant authorities for review, including a copy presented to the Chair of the Tarrawonga CCC, Clr Ken Bates. A review of the AEMR will be undertaken with the relevant government agencies at the end of August 2007, with a report tabled on the outcomes of the review at the next CCC meeting.

# **Minutes of the 7<sup>th</sup> Meeting of the Tarrawonga Coal Mine Community Consultative Committee**

**Meeting Held:** Thursday 1<sup>st</sup> November 2007 at 4:40pm

**Venue:** The meeting held at Tarrawonga Coal Mine Training Room.

## **1. Present and Apologies**

**Present:** Clr Ken Bates (Narrabri Shire Rep.) Chairman  
Clr Colleen Fuller (Gunnedah Shire Rep.)  
Mr Chris Burgess (Group Manager New Projects)  
Mr Danny Young (Environmental Manager)

**Apologies:** Mr Peter Laird (Community Rep)  
Mr Bart Crosby (Community Rep)  
Mr Sandy Bull (Community Rep)  
Mr Bob McGregor (Community Rep)  
Mr Tony Jones (Community Liaison Officer)  
Mr Casper Dieben (General Manager – Open Cut)

In view of the number of apologies, the meeting proceeded in an informal capacity to discuss any major issues since the prior meeting. In this regard there was no formal acceptance of the previous minutes.

## **2. Business Arising**

There was general discussion in relation to complaints raised at the last meeting to identify actions taken to address these concerns.

### **2.1 Coal haulage trucks travelling along Manilla Road just after 6:30am in the morning.**

The issue was raised with Toll and a strategy initiated whereby trucks are not permitted to leave the Whitehaven Coal Bin before 6:45am in the morning, with the first truck to leave being a new Toll B-Double fitted with Satellite tracking. This would ensure trucks would present at the Tarrawonga bin ready to load at 7:00am as per consent requirements. Noise monitoring was also undertaken at the “Kyalla” residence to ensure compliance with road noise criteria. The formal results of this monitoring have not yet been received.

### **2.2 Trucks using dirt section of Hoard Lane past “Gundawarra” rather than the haul route.**

Toll has been requested to ensure trucks use the haul route. This issue was addressed by the requirement for trucks to

depart from the Whitehaven Coal Bin behind a Toll B-Double. Whitehaven has no control over other vehicles/trucks using public road. Narrabri Shire Council have established traffic counters on Hoad Lane to assist Council in determining extent of road use and maintenance requirements.

**2.3** Trucks going through stop signs without stopping.

Issue raised with Toll to ensure drivers are reminded of their obligations to obey the road rules.

**2.4** Signs on trucks indecipherable making identification difficult.

Toll has now implemented a truck numbering system which allows for easy identification of trucks.

**2.5** Trucks speeding through intersection of haul route with Manilla Road, causing them to cross centre line of road.

Raised with Toll, and reiterated requirements to ensure drivers obey road rules.

**3.0 General Business**

**3.1 Mine Progress**

Tarrawonga produced 140,000t of coal last month, which was 10,000t above budget. Produced 1,000,000t of waste rock.

ROM Coal space continues to be a problem due to delays in terms of rail and port shipments. Track space and train shipments are expected to improve in the near future with the Gunnedah bypass line nearing completion. It is proposed that turnouts will be connected to the main line around the 21<sup>st</sup> to 23<sup>rd</sup> November with the passing loop operational at the end of the month.

Rehabilitation is proceeding on the western side of the Tarrawonga mine, with banks in place and seeding occurring this week in anticipation of coming rain.

Toll is awaiting one more B-Double to complete the purchase program for the new truck fleet. This will enable the removal of sub-contractors from coal haulage operations.

### **3.2 Environmental Monitoring Results**

Due to the number of apologies the Environmental Monitoring Results were tabled but not discussed in depth. The meeting was advised that all monitoring had indicated compliance with consent criteria.

The Tarrawonga AEMR review was undertaken on 29<sup>th</sup> August with relevant agencies who undertook discussions on the AEMR at the Tarrawonga Site Office prior to inspection of the site. We have since received formal acceptance of the AEMR from Dept. of Planning and Department of Primary Industries (Mineral Resources) with positive comments as to the content of the document, and actions on the ground.

An additional inspection was undertaken with Monique Meyer of DPI on 22<sup>nd</sup> October to look over the rehabilitation progress. Again, Monique was very happy with the progress being made.

Ongoing monitoring at “Templemore”, “Bollol Creek” and “Green Trees” has not indicated ongoing reduction in groundwater levels. Some bores have recharged over the last month, with others remaining relatively consistent. Monitoring piezometers around the mine site remain relatively consistent in water level.

The Grids located at the entrance to the Whitehaven and Tarrawonga haul routes (off Manilla Road) have now been removed and filled with concrete. This had reduced road noise at these locations substantially, to the benefit of the “Ambardo”, “Kyalla” and “Pine Grove” residences.

### **4.0 New Business**

No new business raised.

### **5.0 Complaints**

The following complaints were received since the previous CCC meeting.

- 5.1** 20<sup>th</sup> August 2007 – Jessica Barnes from DECC on behalf of Robyn Picton of “Bollol Creek” in relation to blasting noise and Dust specific to the 8<sup>th</sup>, 10<sup>th</sup>, 14<sup>th</sup> and 16<sup>th</sup> August 2007.

Investigation determined that Tarrawonga did not blast on these dates (excl. 16<sup>th</sup> August) and it was suggested that the matter be raised with IBC who did initiate blasts on each of the said dates. A meeting was also held with the Picton’s to discuss dust, noise and groundwater issues, at which time Tarrawonga resolved to

undertake additional groundwater monitoring on a number of the private bores on “Bollol Creek” as well as the installation of an additional dust monitor on the western side of the residence.

- 5.2** 30th August 2007 and 12<sup>th</sup> September 2007 – Complaint relating to coal haul trucks using Manilla Road just after 6:30am in the morning. This matter addressed as discussed in 2.1 above.
- 5.3** 19<sup>th</sup> September 2007 – Complaint relating to coal haulage truck crossing centre line of Manilla Road. Matter addressed as per 2.5 above.
- 5.4** 27<sup>th</sup> September 2007 – Complaint in relation dust cloud following blast. Concern that Tarrawonga initiated blast in unsuitable conditions.

Investigation determined that the blast was initiated with winds at 2-3 m/s from the north-west. This was within guidelines established by Tarrawonga (6 m/s). Following the blast, wind gusts of up to 8 m/s occurred pushing the dust cloud to the south-east. Persistent dry conditions has resulted in dust generation from blasting which is difficult to control. Tarrawonga will continue to monitor weather conditions prior to blasting.

- 5.5** 3rd October 2007 – Complaint in relation to dust blowing across to “Bollol Creek”.

Investigation revealed that topsoil stockpile had been opened up on the top of the ridge, which was exposed to north-westerly winds. Top-soil was being replaced on the western rehabilitation area. On this particular day, both water carts experienced down-time due to puncture and mechanical issues. The Project Manager was subsequently advised to ensure that where operations are causing significant dust lift-off which the water-carts are unable to control, the activity is to cease until dust suppression can adequately control the problem.

- 5.6** 5<sup>th</sup> October 2007 – Complaint in relation to dust following blast.

On this occasion a blast was initiated at 9am in the morning to avoid building north-westerly winds during the day. At the time of the blast, there was nil wind, and due to extremely dry conditions, a highly visible dust cloud hung suspended over the site. Tarrawonga initiated the blast at this time on the basis of avoiding winds later in the day. Due to the complaint, blasts have now reverted to the normal 12pm timeframe.

- 5.7** 10<sup>th</sup> October 2007 – Complaint in relation to Toll haulage truck Crossing centre-line of Manilla Road. Bart Crosby was able to

provide truck ID and time.

The matter was referred to Toll for investigation. Toll was to follow up on the incident by interview with Bart Crosby. Toll also indicated they had arranged to take Bart on a run in a B-Double to show Bart the process and procedures adopted by Toll in the haulage process.

**5.8** 29<sup>th</sup> October 2007 – Complaint in relation to dust from Tarrawonga at “Bollol Creek”.

This complaint was the day after rainfall of 20mm which should have had considerable effect on dust generation. Inspection of the site following the complaint did not reveal significant dust lift off. Issue was discussed with Robyn Picton in which I suggested that the only possible source of dust would have been from the open topsoil stockpile, which would soon be completely removed.

**6.0 Next Meeting**

The next meeting will be held at the Tarrawonga Coal Mine Training Room on Thursday 7<sup>th</sup> February at 4:30pm.

Meeting closed at 5:05pm.

..... / /2007  
Ken Bates - Chairman

# Tarrawonga Coal Mine Community Consultative Committee Meeting #7

## Environmental Monitoring Report, July – October 2007

### **Noise Monitoring**

Noise monitoring was undertaken on the 24<sup>th</sup> September as per requirements under the consent. We are currently awaiting the formal report from Spectrum Acoustics. The results of this monitoring will be reported at the next CCC meeting.

### **Blast Monitoring**

#### **Blasting Results**

Since the first shot there have been 55 blasts.

All blasts during this report period have been compliant within the limits of 115dBL and 5mm/s.

To date, the highest overpressure recorded remains at 117.0 dBL recorded at “Bollol Creek Station” on the 5<sup>th</sup> July 2007. The highest ground vibration recorded is 1.07 mm/s recorded at “Bollol Creek Station” on the 12<sup>th</sup> September 2007.

### **Air Quality**

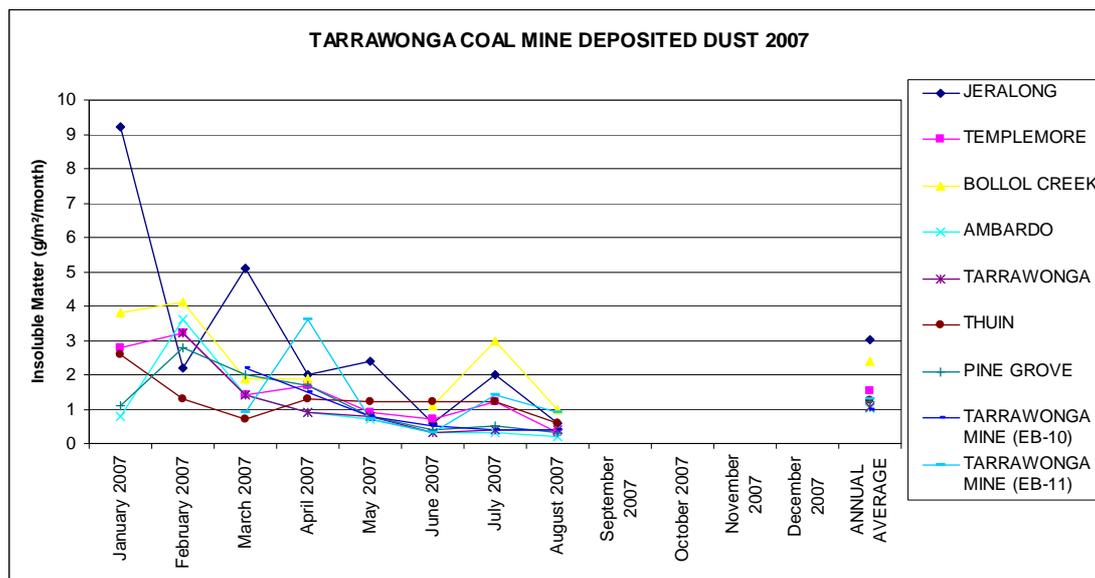
#### **PM10 Results**

The annual average for PM10 readings is currently at 16.0ug/m<sup>3</sup>, which is well below the annual average limit of 30ug/m<sup>3</sup>.

The highest 24hr reading remains at 49ug/m<sup>3</sup> which was recorded on the 5<sup>th</sup> May 2007, which remained below the 24hr limit of 50ug/m<sup>3</sup>. During the report period the PM10 level has averaged 11.4 continuing to indicate a low level trend in PM10 readings.

### Air Quality (Dust Deposition) Results

| Month          | EB3 Jeralong | EB4 Templemore | EB5 Bolloi Creek | EB6 Ambarado | EB7 Tarrawonga | EB8 Thuin  | EB9 Pine Grove | EB10 Tarrawonga | EB11 Tarrawonga |
|----------------|--------------|----------------|------------------|--------------|----------------|------------|----------------|-----------------|-----------------|
| August 2006    | 0.6          | 0.3            | 1.1              | 0.2          | 0.7            | 0.6        | 0.6            |                 |                 |
| September 2006 | 2.1          | 1.0            | 1.5              | 0.7          | NS             | 0.4        | 0.4            |                 |                 |
| October 2006   | 4.6          | 3.7            | 2.0              | 1.0          | NS             | 1.2        | 1.5            |                 |                 |
| November 2006  | 4.5          | 2.9            | 3.2              | 1.8          | NS             | 2.2        | 1.5            |                 |                 |
| December 2006  | 2.3          | 1.5            | 1.9              | 0.9          | 3.7            | 1.0        | 1.2            |                 |                 |
| January 2007   | 9.2          | 2.8            | 3.8              | 0.8          | NS             | 2.6        | 1.1            |                 |                 |
| February 2007  | 2.2          | 3.2            | 4.1              | 3.6          | 3.2            | 3.2        | 2.8            |                 |                 |
| March 2007     | 5.1          | 1.4            | 1.9              | 1.4          | 1.4            | 0.7        | 2.0            | 2.2             | 0.9             |
| April 2007     | 2.0          | 1.7            | 1.9              | 0.9          | 0.9            | 1.3        | 1.7            | 1.5             | 3.6             |
| May 2007       | 2.4          | 0.9            | NS               | 0.7          | 0.8            | 1.2        | 0.8            | 0.8             | 0.7             |
| June 2007      | 0.6          | 0.7            | 1.1              | 0.3          | 0.3            | 1.2        | 0.4            | 0.5             | 0.3             |
| July 2007      | 2.0          | 1.2            | 3.0              | 0.3          | 0.4            | 1.2        | 0.5            | 0.4             | 1.4             |
| August 2007    | 0.6          | 0.3            | 1.0              | 0.2          | 0.4            | 0.6        | 0.3            | 0.4             | 0.9             |
| <b>Average</b> | <b>3.1</b>   | <b>1.8</b>     | <b>2.2</b>       | <b>1.1</b>   | <b>1.4</b>     | <b>1.4</b> | <b>1.2</b>     | <b>0.9</b>      | <b>1.3</b>      |



The deposited dust levels have shown a general decline since the start of 2007, but rose slightly in July and then dropped back again in August, coinciding with the frequency of rainfall. In relation to the EB3 “Jeralong” monitor, application has now been made to the DECC for the removal of this monitor and replacement with monitors EB10 and EB11 located in closer proximity to the Tarrawonga mine, and away from Maules Creek Road. It is expected that DECC will provide a response to the request prior to the next CCC meeting.

As can be identified from the above table and graph, all monitors remain well within the average annual criterion of 4mg/m2/month.

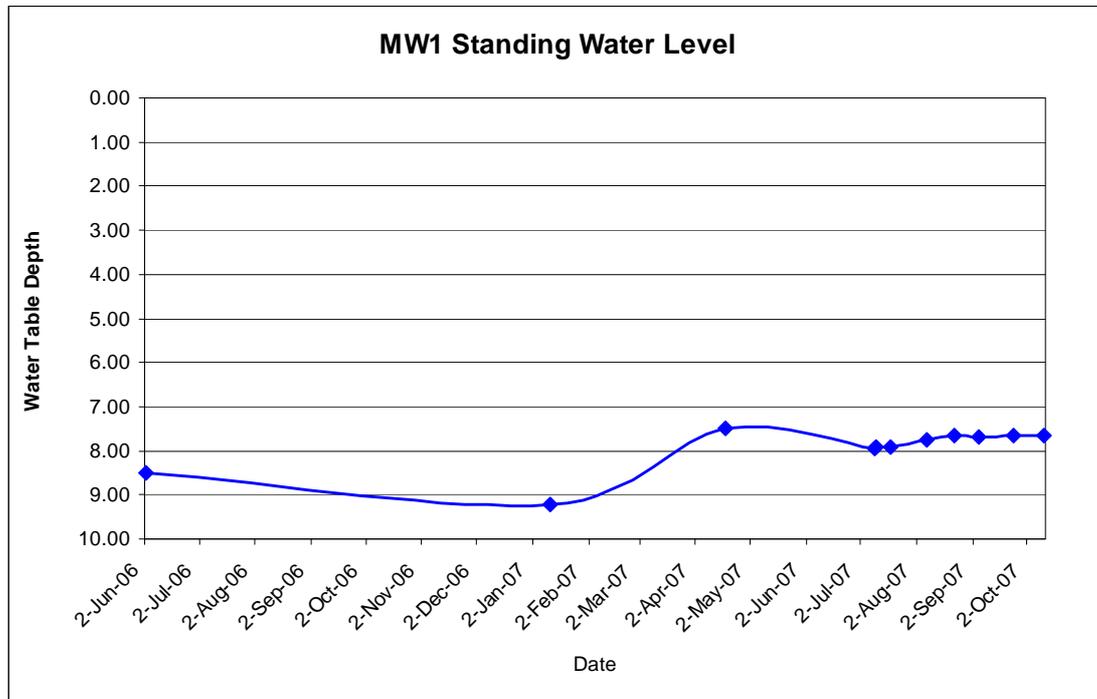
## Water Monitoring

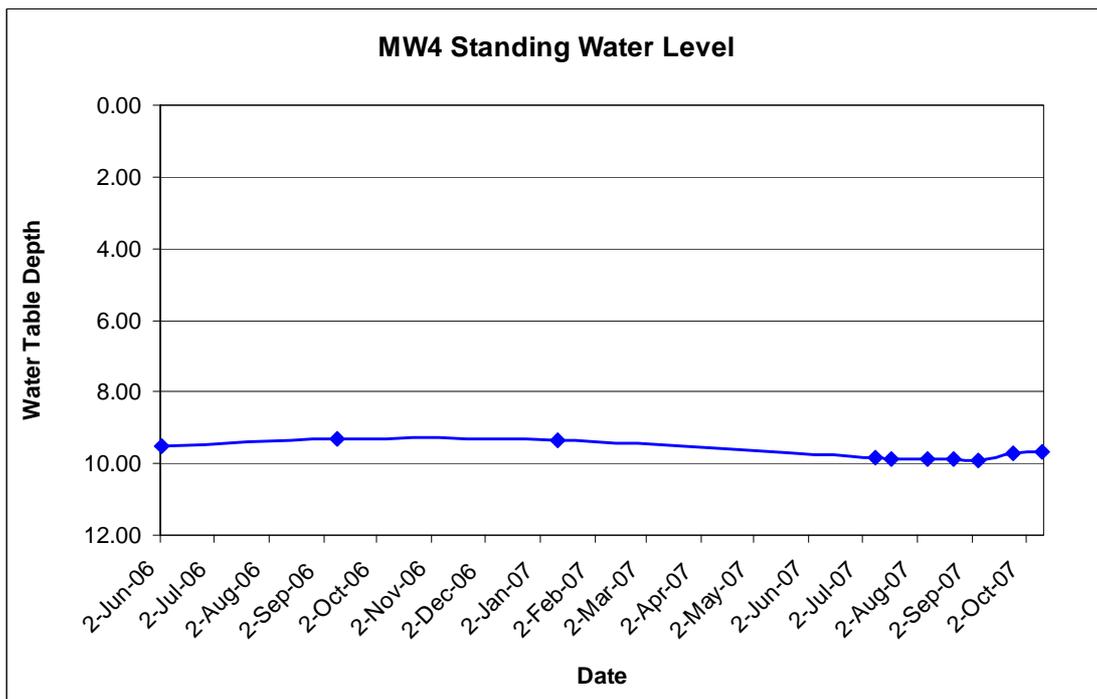
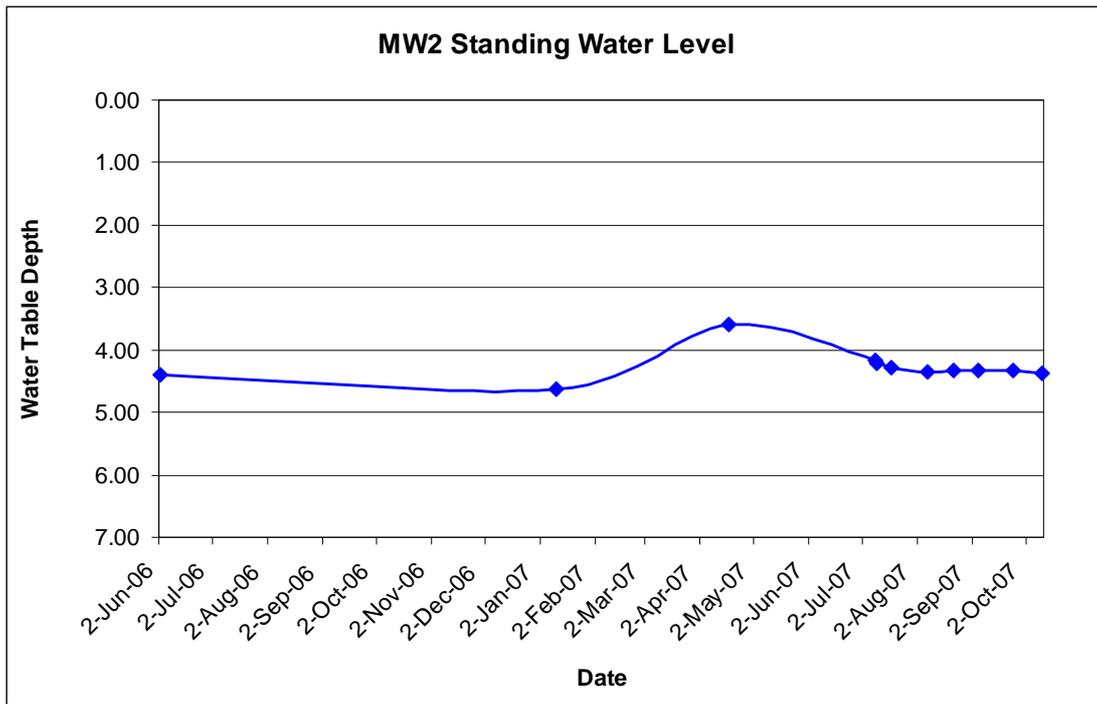
### Ground Water

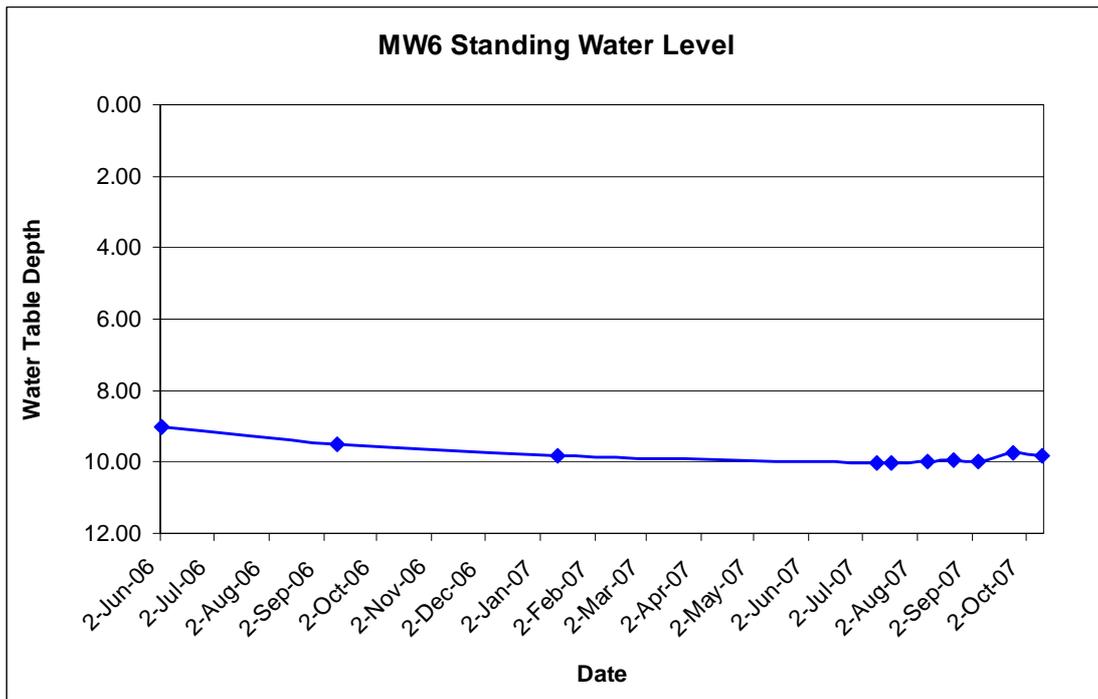
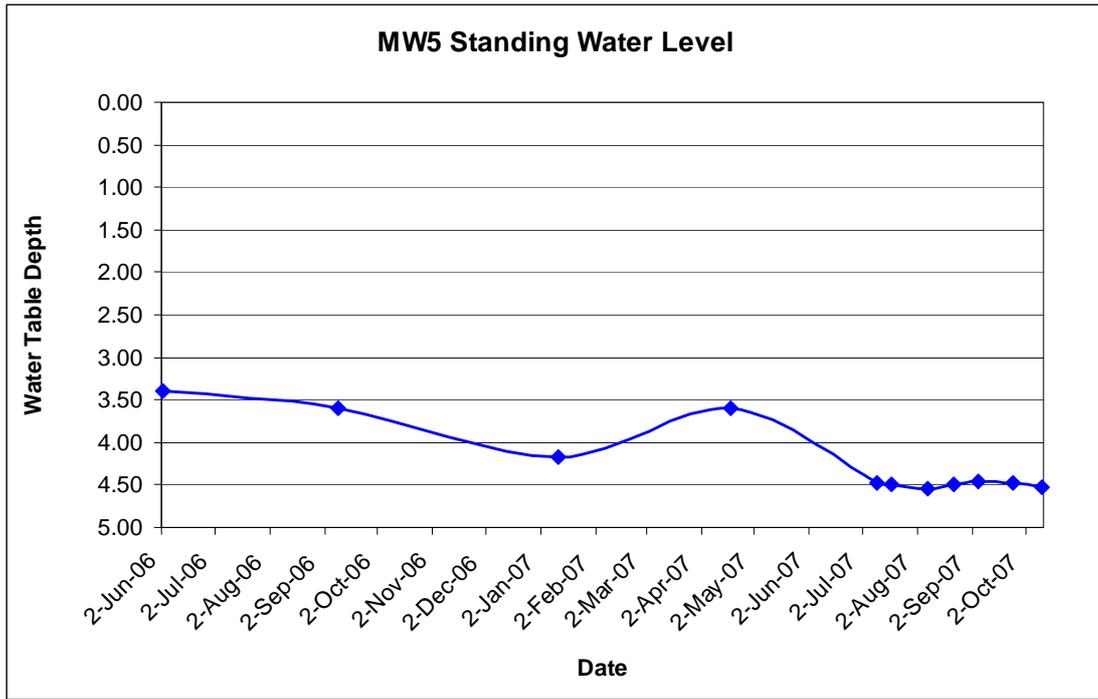
The 6 monthly ground water monitoring was undertaken in July with consultants, RCA. The chemical analysis from that monitoring has not yet been received as we have been awaiting advice from Idemitsu Boggabri Coal relating to a shared groundwater monitor which was sampled by their consultants. Final results should be available for discussion at the next CCC meeting. The water levels in each of the monitoring locations has been included in the table and graphs below.

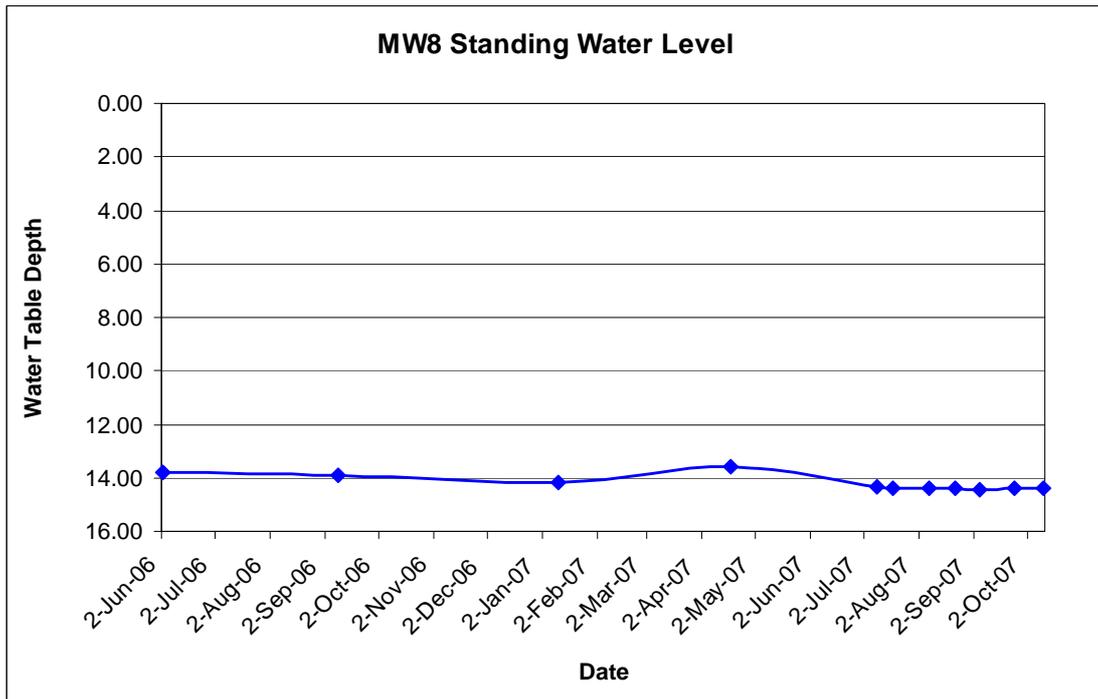
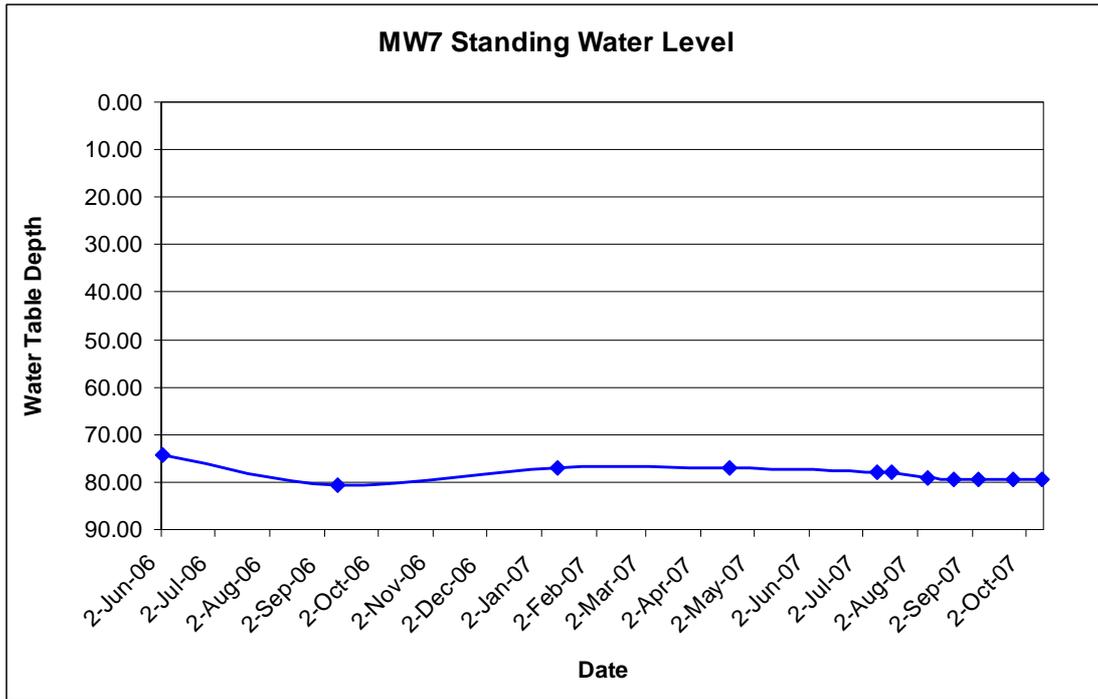
| Site       | Date         | SWL (m) | pH  | Elect. Conduct |
|------------|--------------|---------|-----|----------------|
| <b>MW1</b> | June 06      | 8.54    | 7.5 | 6330           |
|            | January 07   | 9.22    | 7.1 | 2410           |
|            | April 07     | 7.49    |     |                |
|            | July 07      | 7.91    |     |                |
|            | August 07    | 7.66    |     |                |
|            | September 07 | 7.66    |     |                |
|            | October 07   | 7.64    |     |                |
|            |              |         |     |                |
| <b>MW2</b> | June 06      | 4.39    | 7.0 | 5440           |
|            | January 07   | 4.62    | 6.8 | 511            |
|            | April 07     | 3.59    |     |                |
|            | July 07      | 4.29    |     |                |
|            | August 07    | 4.32    |     |                |
|            | September 07 | 4.34    |     |                |
|            | October 07   | 4.37    |     |                |
|            |              |         |     |                |
| <b>MW4</b> | June 06      | 9.49    | 7.0 | 3290           |
|            | September 06 | 9.25    |     |                |
|            | January 07   | 9.37    | 7.1 | 3430           |
|            | July 07      | 9.88    |     |                |
|            | August 07    | 9.87    |     |                |
|            | September 07 | 9.73    |     |                |
|            | October 07   | 9.67    |     |                |
|            |              |         |     |                |
| <b>MW5</b> | June 06      | 3.38    | 6.9 | 1530           |
|            | September 06 | 3.64    |     |                |
|            | January 07   | 4.18    |     |                |
|            | April 07     | 3.60    |     |                |
|            | July 07      | 4.49    |     |                |
|            | August 07    | 4.50    |     |                |
|            | September 07 | 4.48    |     |                |
|            | October 07   | 4.53    |     |                |
|            |              |         |     |                |
| <b>MW6</b> | June 06      | 8.99    | 7.3 | 2030           |
|            | September 06 | 9.54    |     |                |
|            | January 07   | 9.81    | 6.9 | 2030           |
|            | July 07      | 10.01   |     |                |
|            | August 07    | 9.95    |     |                |

|            |              |       |     |      |
|------------|--------------|-------|-----|------|
|            | September 07 | 9.73  |     |      |
|            | October 07   | 9.82  |     |      |
| <b>MW7</b> | June 06      | 74.2  | 7.2 | 2250 |
|            | September 06 | 80.52 |     |      |
|            | January 07   | 77.0  | 7.3 | 1960 |
|            | April 07     | 76.9  |     |      |
|            | July 07      | 77.93 |     |      |
|            | August 07    | 79.28 |     |      |
|            | September 07 | 79.39 |     |      |
|            | October 07   | 79.55 |     |      |
| <b>MW8</b> | June 06      | 13.8  | 6.7 | 2240 |
|            | September 06 | 13.9  |     |      |
|            | January 07   | 14.1  | 6.7 | 2260 |
|            | April 07     | 13.6  |     |      |
|            | July 07      | 14.41 |     |      |
|            | August 07    | 14.40 |     |      |
|            | September 07 | 14.38 |     |      |
|            | October 07   | 14.37 |     |      |









The results indicate only minor variability in the ground water levels at each of the TCM monitoring bores. Monitoring undertaken to date does not indicate any significant impact on groundwater levels on monitors within and adjacent to the TCM site. Monitoring will continue on a quarterly basis to generate additional data over time in order to establish ongoing trends in groundwater levels at our monitoring sites.

## Surface Water

Water quality tests of water in storage dams is undertaken quarterly. The results from sampling in July 07 are presented below. Sampling was again undertaken in October with the result not yet available. They will be presented at the next CCC meeting.

| Date       | Sample Site | pH  | EC   | Total Suspended Solids | Oil & Grease |
|------------|-------------|-----|------|------------------------|--------------|
| 25/07/2007 | SD1         | 7.5 | 990  | 23                     | <2           |
| 25/07/2007 | SB5         | 8.0 | 1150 | 17                     | <2           |
| 18/04/2007 | MV          | 7.6 | 3130 | 15                     | 30           |
| 18/04/2007 | SD8         | 8.1 | 260  | 25                     | <2           |
| 18/04/2007 | SD9         | 7.7 | 290  | 22                     | <2           |
| 18/04/2007 | SD5         | 8.4 | 3370 | 8                      | <2           |

As there is no discharge associated with these results there is no criteria applicable. The results do however indicate low levels of Total Suspended Solids which would indicate probable compliance in relation to any discharge event.

A single discharge event occurred on the 23<sup>rd</sup> August 2007 from SD8 following the receipt of 49mm of rain for the month. The discharge was sampled with results presented below:

| Date       | Sample Site | pH  | EC  | Total Suspended Solids | Oil & Grease |
|------------|-------------|-----|-----|------------------------|--------------|
| 23/08/2007 | BCU         | 6.8 | 180 | 46                     | 2            |
| 23/08/2007 | SD8         | 6.8 | 475 | 5                      | <2           |
| 23/08/2007 | BCD         | 6.2 | 110 | 23                     | <2           |

The above results indicate the water storage system on site is working effectively with sediment and oil and grease loads at the discharge point substantially lower than at the upstream monitoring point on Bollol Creek. The discharge was well within compliance limits as prescribed in the consent.

## Review of Annual Environmental Management Report

The AEMR review was held with the following agencies on 29<sup>th</sup> August 2007.

Department of Primary Industries – Mineral Resources  
Department of Primary Industries – Agriculture  
Department of Water and Energy  
Department of Environment and Climate Change  
Department of Planning  
Narrabri Shire Council

The review panel discussed the content of the AEMR as well as toured the site for confirmation of information presented in the report. The Department of

Primary Industries and Department of Planning provided written advice as to the acceptance of the AEMR and commended Tarrawonga Coal for the presentation of the AEMR, the use of the Coal Movement and Production Summary to define levels of production and the effective management of hydrocarbons at the workshop area.