



SUNNYSIDE COAL MINE

COMMUNITY CONSULTATIVE COMMITTEE

MEETING #7

ENVIRONMENTAL MONITORING REPORT

June 2010 – August 2010

Noise Monitoring

The noise limits applicable to operations on the Sunnyside Coal Mine, as prescribed in the Project Approval and Environment Protection Licence, are as follows:-

Day/Evening LAeq(15 minute)	Land
35	Any residence on, or more than 25% of, any privately owned land, except "Lilydale".

Impact Assessment Criteria dB(A).

Noise measurements for this period were postponed due to access limitations associated with the recent wet weather. Monitoring was undertaken on the 30th and 31st August with results outlined below:

Noise Monitoring Results – 30 August 2010 (Day)				
Location	Time	dB(A),Leq (15 min)	Wind speed/ direction	Identified Noise Sources as dB(A) Leq (15 min)
Illili	4:36 pm	35	Calm	Birds & insects (32), SCM (32)
Ferndale	8:45 am	47	1.3m/s NE	Birds (45), traffic (43), SCM inaudible
Plain View	4:17 pm	39	Calm	Birds & insects (34), SCM (34) , traffic (33)
Lilydale	4:00 pm	39	Calm	Birds & insects (38), SCM (30) , traffic (28)

Noise Monitoring Results – 30 August 2010 (Evening)				
Location	Time	dB(A),Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Illili	8:00 pm	34	<0.5m/s ESE	Dogs (32), frogs (32), SCM inaudible
Ferndale	8:35 pm	34	Calm	Frogs (34), SCM inaudible
Plain View	7:40 pm	32	<0.5m/s ESE	Traffic (32), SCM (<20)
Lilydale	7:20 pm	43	<0.5m/s ESE	Frogs (43), traffic (35), SCM inaudible

The results indicate compliance at all receivers throughout the monitoring period. Monitoring was also conducted at the "Glendower" and "Woodlawn" residences to confirm if mine noise remained within compliance limits at those residences, with results confirming compliance as per table below:-

Noise Monitoring Results – 30 August 2010				
Location	Time	dB(A),Leq (15 min)	Wind speed/ direction	Identified Noise Sources as dB(A) Leq (15 min)
Woodlawn	3:40 am	38	Calm	Traffic (36), birds/ insects (34), SCM barely audible
Glendower	4:54 pm	38	Calm	Birds & insects (37), traffic (30), SCM (28)
Woodlawn	7:02 pm	33	<0.5m/s ESE	Traffic (33), frogs (20), SCM inaudible
Glendower	8:17 pm	38	Calm	Frogs (38), SCM (est. <25)

In addition to mine noise assessment, monitoring was undertaken at the “Roslyn” property adjacent to Torrens Lane to determine road noise levels from coal haulage. Over a monitoring period of 1 hour, a total of 31 heavy vehicle movements were measured which resulted in a marginal exceedance of the road noise criteria. The measured noise contribution was 56 dB(A) as opposed to the consent limit of 55 dB(A). This is the first exceedance in road haulage noise from the Sunnyside Mine. Noise levels will be reassessed at the next opportunity with the noise consultant to ensure noise levels remain within compliance levels.

Air Quality Monitoring

Deposited Dust

Deposited dust levels for the site for the last 12 months are shown in the following table.

Sunnyside Mine – Deposited Dust

Month	SD1 Ferndale	SD3 Plainview	SD4 Lilydale	SD5 Ivanhoe	SD6 Illili	SD7 Innisvale
August 2009	1.8	1.3	1.2	32.6	4.0	0.8
September 2009	9.7	39.9	6.8	12.2	15.0	6.9
October 2009	3.7	12.2	1.9	3.2	10.0	2.3
November 2009	0.6	25.7	1.5	3.0	0.9	1.5
December 2009	1.2	1.4	1.6	1.9	1.1	1.0
January 2010	1.8	7.9	3.0	1.9	1.7	1.6
February 2010	2.5	1.3	0.6	1.2	0.6	0.7
March 2010	11.9	3.0	1.9	1.8	1.8	2.5
April 2010	0.9	1.2	0.9	1.8	0.6	0.6
May 2010	1.0	1.1	0.6	1.4	2.5	0.6
June 2010	0.3	1.4	0.9	13.1	1.2	0.4
July 2010	0.4	0.4	0.2	4	1.3	0.5
Annual Average	3.0	8.1	1.8	6.5	3.4	1.6

Deposited dust levels have generally remained at consistently low levels over the last 3 months with the exception of the June result at SD5 – “Ivanhoe”. The laboratory analysis for this result confirmed contamination of the sample with insects, bird droppings and leaf matter. It is clearly an outlier result when compared with the deposited dust result from September 2009 which coincided with regional dust storm events.

The annual average remains below 4g/m²/month for all sites except SD3 “Plainview” and SD5 “Ivanhoe”. The annual averages for both sites is trending downwards with the results over the last 5 months consistently at low levels which again indicates the significance of the outlier results (contamination) on the running annual average.

PM₁₀ Data

Compliance with the 24hr criterion of 50µg/m³ has been maintained at both PM₁₀ monitor locations during the period since January 2010.

PM₁₀ measurements taken to date for the “Illili” High Volume Air Sampler are returning a running annual average of 17.48µg/m³, which is well below the annual average limit of 30µg/m³. The highest reading from this sampler remains 109µg/m³ measured on the 8th December 2009.

PM₁₀ measurements taken to date for the “Lilydale” High Volume Air Sampler are returning a running annual average of 13.31µg/m³, which is well below the annual average limit of 30µg/m³. The highest reading from this sampler was 70µg/m³, also measured on 8th December 2009.

Blast Monitoring

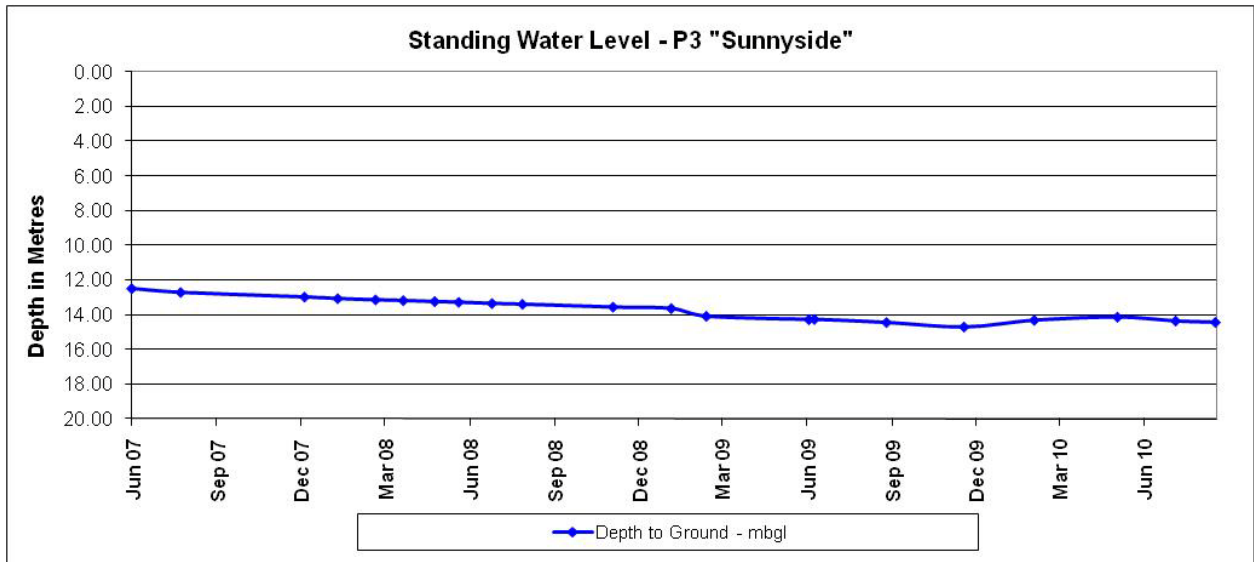
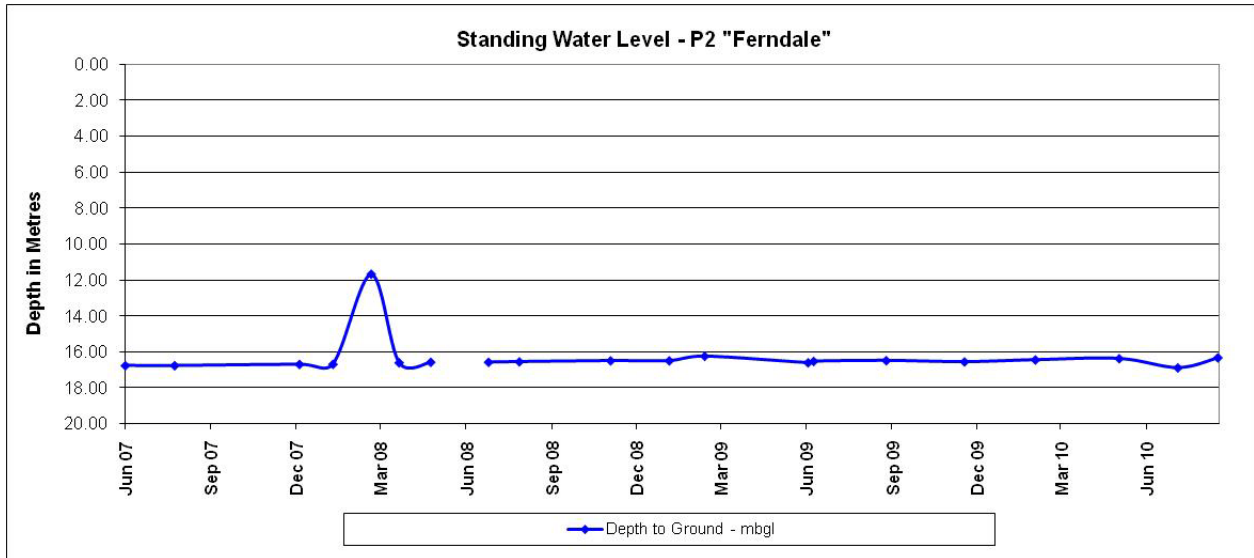
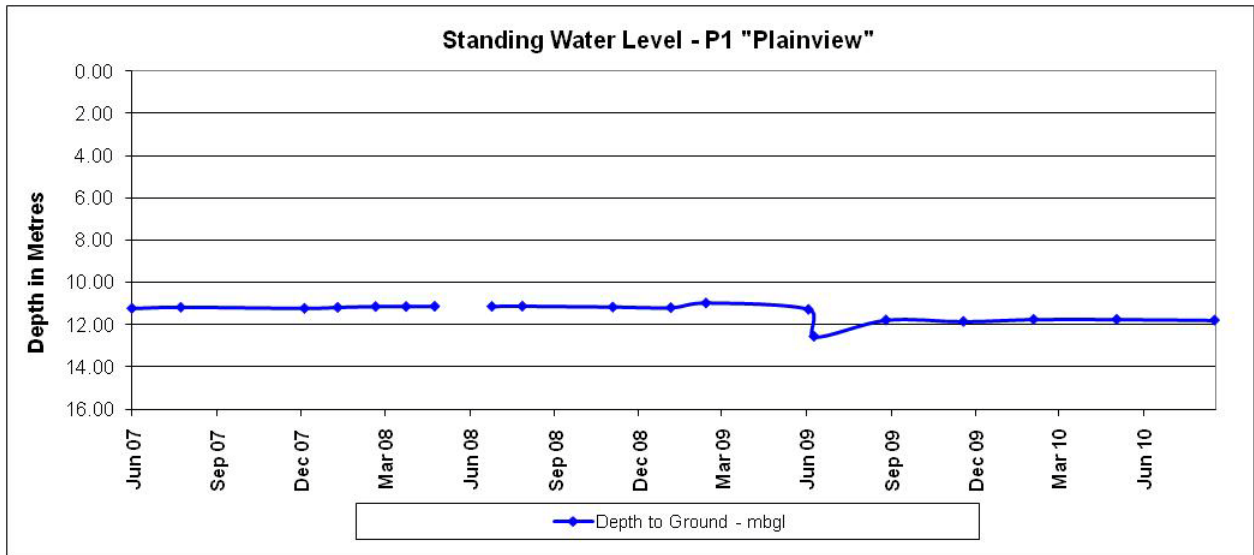
Since the first shot there have been 18 blasts. All blasts during this report period have been compliant within the limits of 115dBL and 5mm/s.

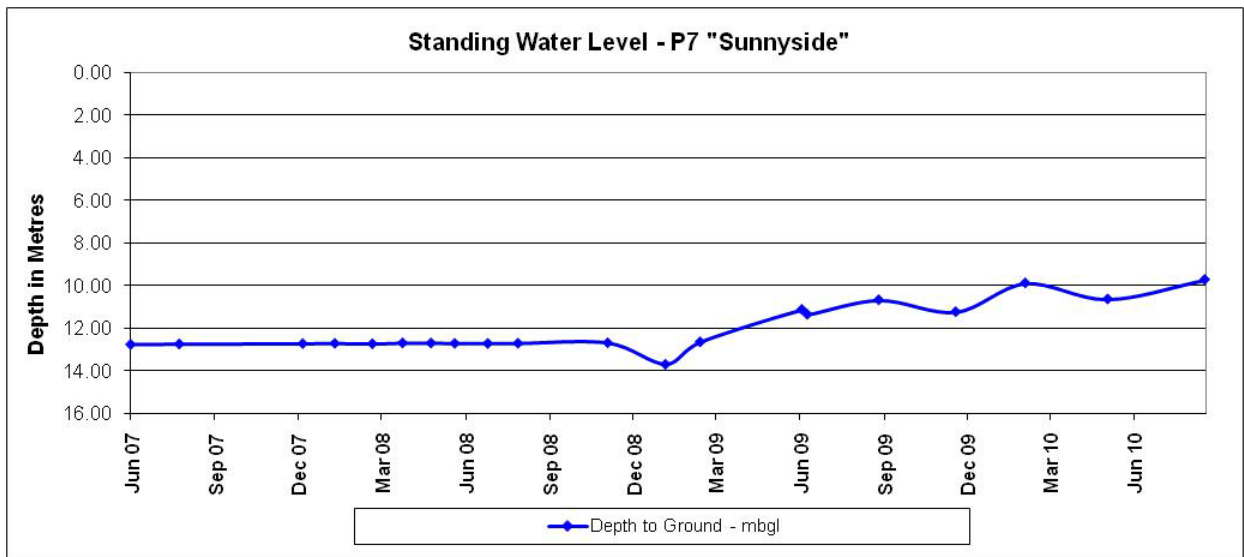
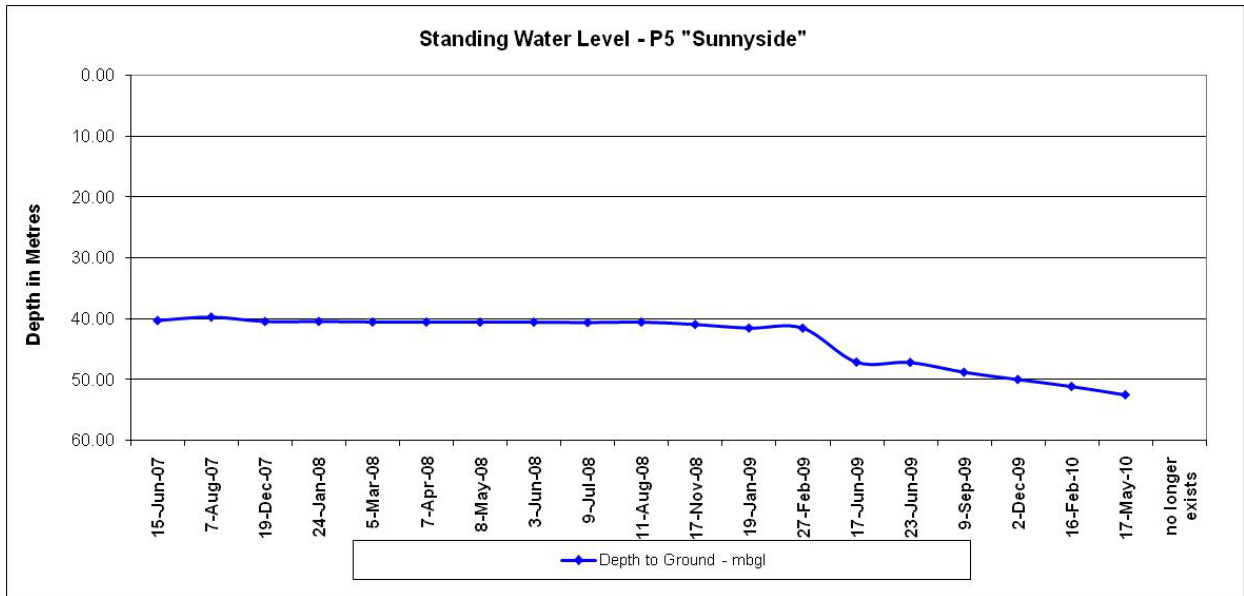
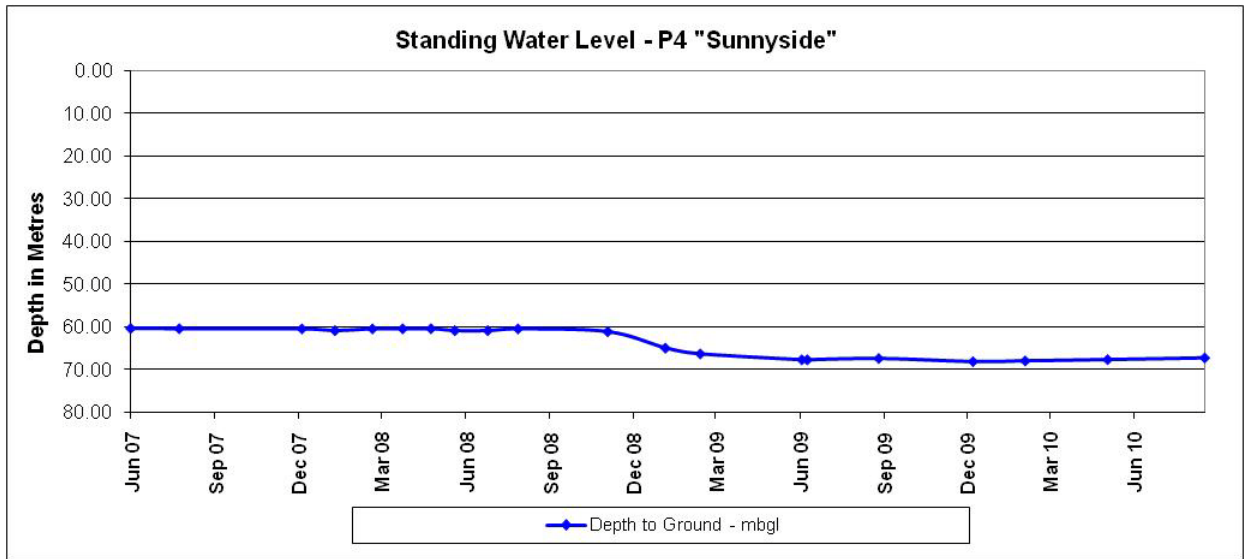
To date, the highest overpressure recorded is 114.8 dBL recorded at “Illili” on the 17th April 2010 & 23rd June 2010. The highest ground vibration recorded is 2.39mm/s recorded at “Plain View” on the 17th April 2009.

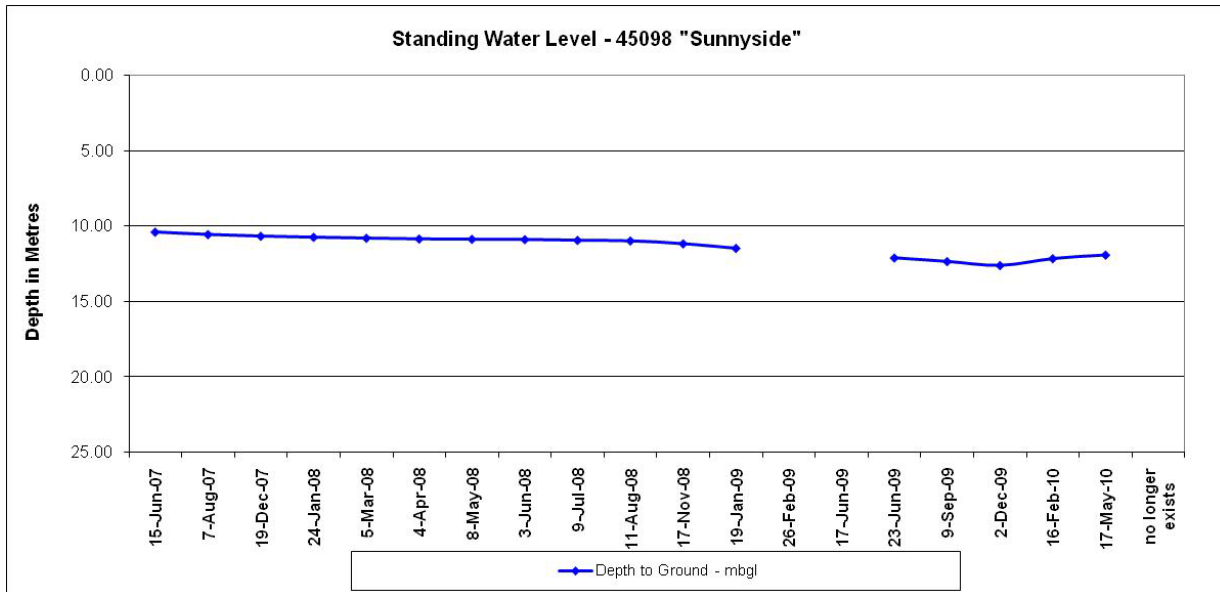
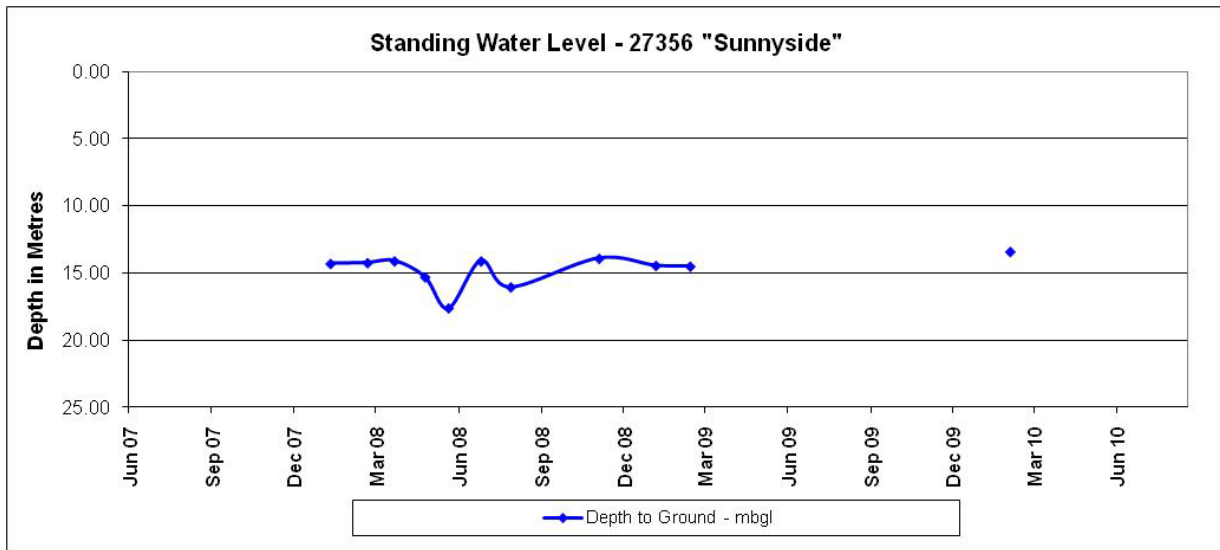
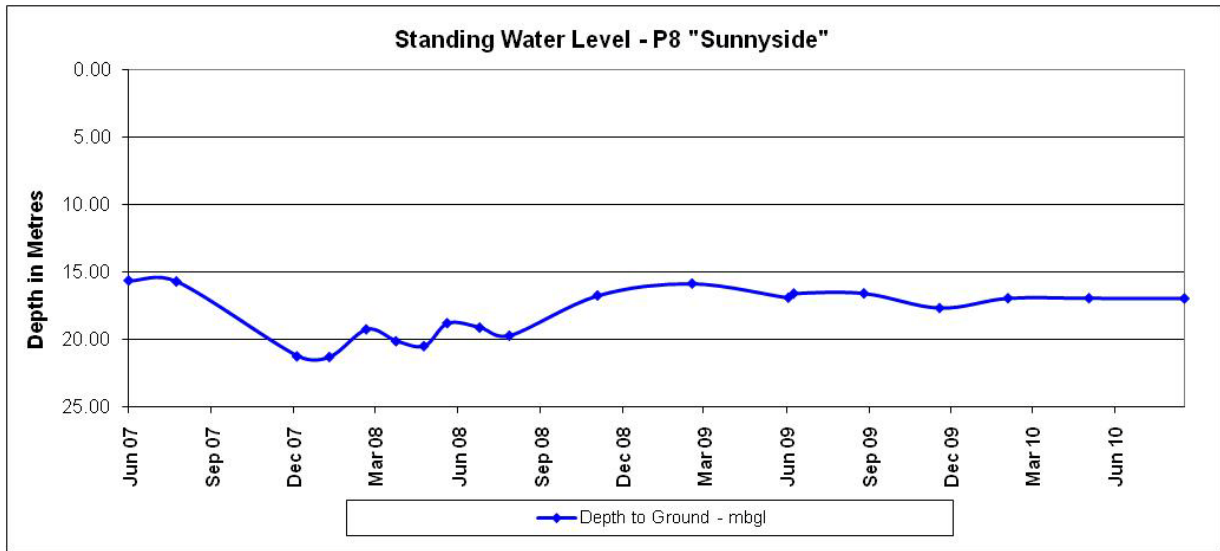
Groundwater Monitoring

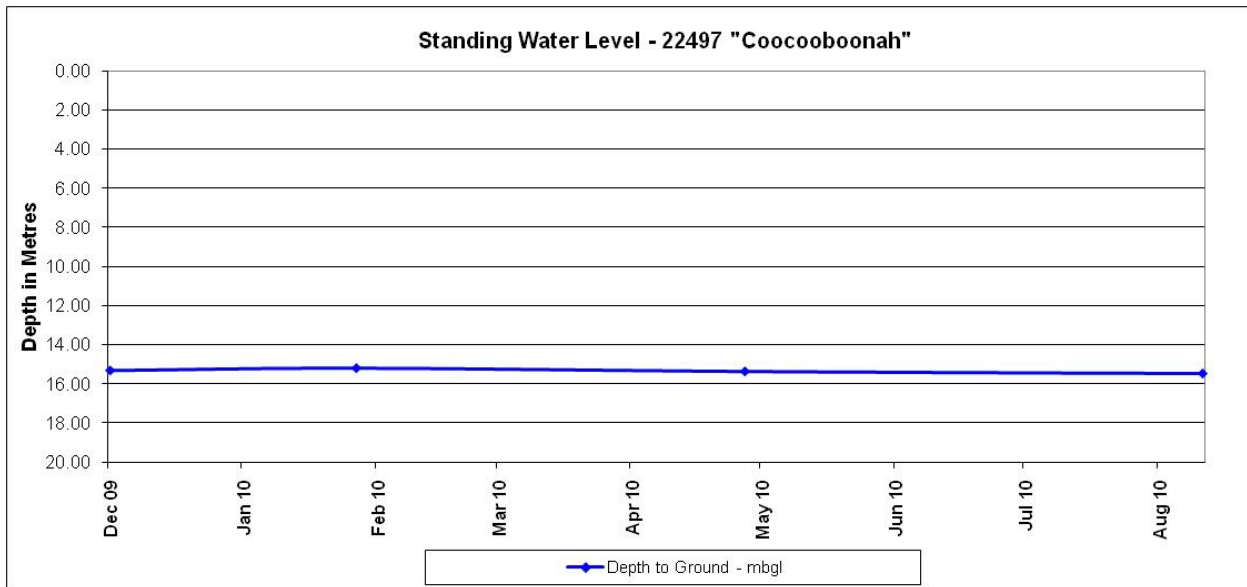
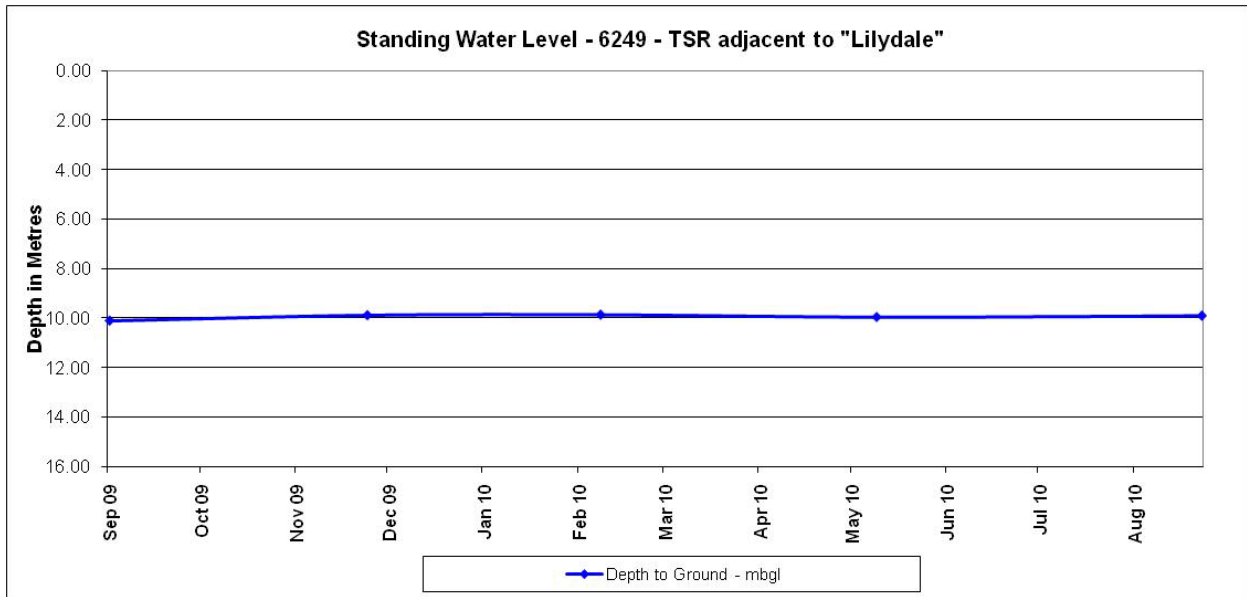
Groundwater monitoring is undertaken from a range of monitoring piezometers and water bores both within and surrounding the mine site. Standing Water Level (SWL) checks are undertaken on a quarterly basis, with full water quality sampling undertaken on a 6 monthly basis. Monitoring results to date for SWLs are shown below with no significant impact/trend indicated from mining operations. The next round of monitoring is expected to be conducted during November 2010. Results from this monitoring will be provided at the next CCC meeting.

At the previous meeting committee members questioned the gap on some of the SWL graphs between June and September 2009. Whitehaven approached our environmental monitoring contractor (ALS) who subsequently provided field sheets for missing SWL data where available. These results have been updated and included in the following graphs. Where SWL measurements were not available, a gap in the graph remains indicating this missing data. Whitehaven will continue to ensure that field sheets are received on time by ALS.









As discussed in the previous CCC report, results to date indicate minor variability in groundwater levels with no significant trend applicable. P5 is now located within the active pit area and monitoring bore 45098 has been covered by the waste dump and therefore both monitoring locations will no longer be sampled. Groundwater seepage into the pit is still minimal. Ongoing data collection will provide for longer term analysis of groundwater impact.

Surface Water

No wet weather discharge events have occurred since the last CCC meeting. Surface water sampling over March and May from storages on site have indicated that water quality parameters would be within concentration criteria if a discharge event was to occur.

Complaints

One complaint was received at the last CCC meeting on the 9th June 2010 in regard to Toll trucks cornering too quickly at the Coochoonah Lane/Oxley Highway intersection. Action has been taken in relation to the complaint with the matter referred to Leigh Lamey (Toll HSE Compliance Officer). Leigh ensured the matter was raised at the latest toolbox talks and advised Whitehaven when the toolbox talks were completed.

Rehabilitation

Minor shaping works of the northern dump occurred during the reporting period. A Rehabilitation and Landscape Management Plan, incorporating a Mine Closure Plan is currently being developed by external consultants as required under the site's development consent. The plan is expected to be finalised over the following months and will guide future rehabilitation actions across the site.