

Minutes of Rocglen Coal Mine Community Consultative Committee – Meeting #18

Meeting Held: Wednesday 13th February 2013

Venue: The meeting was held at the Rocglen Coal Mine Training Room

Commencement Time: 3:00pm

1. Present and Apologies

Present: Mr Jason Conomos (Operations Manager)
Mr Tim Muldoon (Community Liaison Officer – Whitehaven)
Mr John Sturgess (Independent Chairperson)
Mr Hans Allgayer (Gunnedah Shire Council Representative)
Mr Warren Nicholls (Community Representative)
Mrs Jill Johnson (Environmental Officer – Whitehaven)

Apologies: Mrs Pam Burns (Community Representative)
Mr Danny Young (Environmental Manager – Whitehaven)

Absent: Mr Rod Barnes (Community Representative)

Apologies moved by Warren Nicholls and Hans Allgayer.

2. Previous Minutes

Minutes accepted as a true record on the motion of John Sturgess and Tim Muldoon.

3. Business Arising from Previous Minutes

- 3.1. Jill Johnson advised that Whitehaven is awaiting advice from the Department of Planning and Infrastructure that the retirement of offset credits associated with the Biobank area will satisfy the Project Approval requirements. A basic description of the biodiversity offset requirements and rehabilitation security requirements of a mine site, as well as the Biobank concept, were explained by Jill following request from Warren Nicholls. Jill suggested that if Warren required greater detail on the process he should ask Danny Young at the next meeting as he has been directly involved.
- 3.2. Jill Johnson advised that the boundary fencing between privately owned “Roseglass” and Whitehaven land had almost been completed. Work has commenced on removing sections of the boundary fencing between Whitehaven owned land and privately owned “Roseberry” for replacement.
- 3.3. Tim Muldoon confirmed that Clr Hasler had been replaced with Clr Allgayer as the Gunnedah Shire Council delegate for the Rocglen CCC.

- 3.4. Jason Conomos advised that a tender had been awarded for the Wean Road upgrade so assumed Council had endorsed the upgrade plan. Work is expected to commence in 2 weeks and the first job is to relocate the phone line.

4. Mine Progress Report

Jason Conomos advised that over the past 3 months (November to January) approximately 3 million BCM of overburden was moved and 336,000 tonnes of coal was mined.

Rocglen has 43 permanent operators based on site, 15 permanent contract operators, with 8 staff/management.

Highwall stability continues to be an issue.

Dirty water management is occurring following recent rain and progress is being made on rehabilitation in the northern and southern sections of the site.

5. Review of Environmental Performance

Jill Johnson presented the environmental monitoring results which are attached in the environmental monitoring report, and include all complaints lodged over the reporting period.

An error was noted with the date for elevated dust results at Glenroc. The report read January 2012 when it should have been January 2013. The committee agreed that the date could be changed prior to the report been published on the Whitehaven website (moved Tim Muldoon and Warren Nicholls).

Warren Nicholls commented that he had told the ALS monitoring personnel that even though groundwater monitoring bore WB11 had been equipped they could still move the cover sideways slightly to dip it and collect a sample. This appears to not be occurring. Jill Johnson to follow up with ALS.

Warren also asked if the monitoring piezometers (in particular MP3, MP4 and MP5) were dry or near dry as a result of mining related influences. Jill explained that the piezometers had been drilled until they only just intercepted water and have remained dry or near dry ever since. As part of the Rocglen Extension approval Whitehaven is required to deepen these bores to allow for ongoing water monitoring.

6. General Business

Warren Nicholls asked about the hours of work as he was woken up at 3:45am on Tuesday by a truck racing around. Jason Conomos said the mine shift stops at 2:30am so it wouldn't have been associated with mining. Perhaps it was the

maintenance crew transporting the truck to or from the workshop. Jason Conomos to remind maintenance crews to consider neighbours to minimise noise impacts.

Warren Nicholls said as a neighbouring landholder he has a lot of trouble with the whole mining process. He noted that the blast letters thank neighbours for their ongoing cooperation but that they have no choice. He feels like the life has been screwed out of them. On three occasions they have felt blasts from Tarrawonga, which is over 30km away with the Vickery Forest in between so he believes it has something to do with the underground strata. At the time of one of the blasts he made a formal complaint, to which Jill provided a response advising of no exceedance closer to the mine, but he has a lot of trouble with that. He's not sure if it's fantasy or not but he has heard that blasts from Tarrawonga have been felt at the dam wall at Lake Keepit. John Sturgess said blasting issues at Tarrawonga are under the scope of the Tarrawonga CCC not Rocglen.

Warren Nicholls said the proposed Vickery Mine is like a bloody noose around their neck and it hasn't started yet. It will be worse than Rocglen because it will be 24 hours a day. He believes the Vickery Mine and the existence of Rocglen has cost him \$500,000 in direct capital loss (land value). Warren said they are in a dead zone where properties are unsaleable. He said if you get in a dead zone it will kill you and he means that literally not figuratively.

Warren said he has appealed on a number of occasions to the State Government with no response because they don't give a damn about people like him. It puts him in a really difficult position.

Warren raised concern about Shannon Harbour Road and the gate being locked on the western end at the telephone box. He said it demonstrates Whitehaven's willingness to exclude public from the road. He knows it's a condition of the mining lease but it's illegal. You can't put padlocks on public roads. He doesn't care if Whitehaven applies to have it closed but they need to follow procedure. Illegality should not be tolerated. The committee noted that this issue had been discussed previously and that Whitehaven was only following the requirements imposed on them. Whilst the exact details could not be remembered at the meeting, John Sturgess and Jill Johnson said they believed it was a Council requirement. Jill to investigate and provide advice at next meeting.

Warren said he does his best to cooperate at all times but he is finding it more difficult when it is costing him so much. He said he's not the only one and it's not just this mine. It's a difficult situation and he doesn't know what to do about it.

John Sturgess reiterated that Jill Johnson would investigate the situation with Shannon Harbour Road and that any property value issues are not under the brief of this committee. Warren said that is fine but he wanted it stated that that is his belief. He said they are like a corpse swinging in the breeze, to quote Paul Keating. He said people are cautious when it comes to water. Everyone expects mining is going to destroy the water. He has become alarmed by the whole thing.

Warren said he has continuously tried not to complain about the mine. John said Whitehaven has told him on a number of occasions to contact the mine at the time of the issue so it can be resolved, rather than waiting until meetings. Warren said he would never ring someone at 3:45am to complain. Tim Muldoon said Whitehaven appreciates his attitude but we also need to make sure we are addressing people's concerns. Jill Johnson said even if he doesn't want to ring people during the night he can always ring the next morning.

Warren said he is alarmed about land values and the Vickery process. He hopes the message gets through to Whitehaven as a company. He said nobody cares and Whitehaven is a company that is difficult to get information from. Jill Johnson questioned whether he had asked for information and not been provided with it or whether he just assumed we wouldn't tell him. She also explained that Whitehaven can't give out information without some sort of surety which is developed throughout the environmental assessment. Warren said that he doesn't want to be anywhere near mining and it's only going to get worse. He also said that apart from the land value issue he has little concern with Rocglen in relation to dust, noise and lights.

Tim Muldoon said that he and Warren have had discussions on a number of occasions and unfortunately some of it is the luck of the draw in relation to positioning of properties. If the property is outside the modelled levels then it is difficult for the company to acquire the property. He said Whitehaven contests the land value issue and it's not that the company doesn't care it's just not commercially viable to buy every property that falls outside the criteria.

Warren said he was alarmed when consultants for the Vickery project took photos from his garden fence to model visual impacts as this is not the only location where visual impacts will be experienced. John Sturgess reminded Warren that Vickery is outside the brief of the Rocglen CCC.

Warren said he wrote again to the Minister last week and had not yet received a response.

Tim Muldoon advised that conditional approval had been granted for Whitehaven's Maules Creek Project.

7. Next Meeting

The next meeting of the Rocglen CCC is scheduled for Wednesday 8th May 2013 at 3pm and will include a site tour.

Meeting closed 4:00pm



J Sturgess
Chairman

Rocglen Coal Mine Community Consultative Committee Meeting #18

Environmental Monitoring Report November 2012 – January 2013

Noise Monitoring

Attended noise monitoring was undertaken on the 12th, 13th, and 14th December 2012, in accordance with the Rocglen Noise Monitoring Program and Environmental Protection Licence Guidelines (90 minutes during the day, 30 minutes during the evening and 60 minutes during the night and occur for 3 consecutive operating days) with results outlined below:

Table 1: RCM Operational Noise Monitoring Results – 12 December 2012 (day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Surrey	7:30 am	41	3.2 m/s 117°	Birds & insects (41), RCM (25)
Retreat	9:06 am	36	4.4 m/s/110°	Birds & insects (36), RCM inaudible

Table 2: RCM Operational Noise Monitoring Results – 12 December 2012 (evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Surrey	8:48 pm	37	6.8 m/s 103°	Insects (34), wind (33), RCM (<25)
Retreat	9:30 pm	38	8.4 m/s 109°	Wind (35), insects (34), RCM inaudible

Table 3: RCM Operational Noise Monitoring Results – 12 December 2012 (night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Surrey	10:15 pm	42	8.9 m/s 93°	Wind (40), insects (38), RCM inaudible
Retreat	12:00 am	41	6.1 m/s 86°	Wind (40), insects (33), RCM inaudible

Table 4: RCM Operational Noise Monitoring Results – 13 December 2012 (day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Surrey	8:41 am	40	1.7 m/s 102°	Birds & insects (40), RCM (29)
Retreat	7:05 am	38	2.5 m/s 125°	Birds & insects (38), RCM (20)

Table 5: RCM Operational Noise Monitoring Results – 13 December 2012 (evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Surrey	8:50 pm	28	4.2 m/s 141°	RCM (25), insects (24)
Retreat	8:02 pm	33	2.3 m/s 102°	Birds & insects (31), RCM (29)

Table 6: RCM Operational Noise Monitoring Results – 13 December 2012 (night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Surrey	11:11 pm	30	2.6 m/s 81°	Insects (29), dogs (22), RCM (<20)
Retreat	10:01 pm	37	2.6 m/s 76°	Wind (36), insects (25), RCM (25)

Table 7: RCM Operational Noise Monitoring Results – 14 December 2012 (day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Surrey	9:08 am	38	1.5 m/s 219°	Birds & insects (37), RCM (32)
Retreat	8:59 am	34	1.5 m/s 219°	Birds & insects (33), RCM (27)

Table 8: RCM Operational Noise Monitoring Results – 14 December 2012 (evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Surrey	8:34 pm	37	3.0 m/s 43°	Birds & insects (34), cattle (32), RCM (24)
Retreat	9:26 pm	40	1.6 m/s 80°	Insects (40), RCM inaudible

Table 9: RCM Operational Noise Monitoring Results – 14 December 2012 (night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources
Surrey	10:11 pm	38	1.9 m/s 24°	Insects (37), RCM (31)
Retreat	11:26 pm	30	2.7 m/s 68°	Insects (30), RCM inaudible

The results in Tables 1 to 9 show that, under the operating and meteorological conditions at the times, for the 15 minute measurement periods, the mine noise did not exceed the operational noise criterion at any monitoring location or at any time.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) L1 (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 L1 (1 min) noise from the mine did not exceed 45 dB(A) at both monitoring locations, as shown below:

Table 10: RCM Sleep Disturbance Monitoring Results – 12 December 2012 (night)			
Location	Time	dB(A),L1 (1 min)	Wind speed/ direction
Surrey	10:15 pm	n/a	8.9 m/s 93°
Retreat	12:00 am	n/a	6.1 m/s 86°

Table 11: RCM Sleep Disturbance Monitoring Results – 13 December 2012 (night)			
Location	Time	dB(A),L1 (1 min)	Wind speed/ direction
Surrey	11:11 pm	27	2.6 m/s 81°
Retreat	10:01 pm	35	2.6 m/s 76°

Table 12: RCM Sleep Disturbance Monitoring Results – 14 December 2012 (night)			
Location	Time	dB(A),L1 (1 min)	Wind speed/ direction
Surrey	10:11 pm	37	1.9 m/s 24°
Retreat	11:26 pm	n/a	2.7 m/s 68°

Rocglen's real time noise monitor is currently located at the "Penryn" property. The monitor's alarm system is now in place which notifies operations when noise levels approach compliance limits and allows for the opportunity to adjust operations accordingly.

Blast Monitoring

Since the first blast there have been 134 blasts (until the end of January). All blasts during the monitoring period were compliant within the limits of 115dBL and 5mm/s.

Air Quality

Deposited Dust Results

The deposited dust results ($\text{g/m}^2/\text{month}$) obtained for the site over the last 12 months are as follows:

Air Quality (Dust Deposition) Results

Month	BD2 - Glenroc	BD3 -Belah	BD4 - Surrey	BD5 - Stratford	BD6 - Roseberry	BD7 - Roseglass	BD8 - Yarrowonga	BD2-a - Penryn
February 2012	1.1	0.2	0.6	0.4	0.3	1.4	0.6	
March 2012	1.3	1.9	1.6	1.2	1.0	4.9	1.2	
April 2012	24.3	0.6	1.1	0.7	0.5	4.2	1.8	
May 2012	2.0	1.0	1.2	0.6	0.8	0.8	0.9	
June 2012	1.6	0.4	0.5	0.5	0.4	0.5	0.6	
July 2012	1.6	0.2	0.5	0.3	0.4	0.4	0.6	
August 2012	0.7	0.5	1.5	0.8	1.6	0.7	1.3	
September 2012	2.1	1.8	0.7	1.4	2.3	1.7	1.5	
October 2012	2.5	1.1	0.9	0.7	0.9	0.7	1.2	
November 2012	2.6	1.0	1.5	0.8	0.4	0.5	1.5	
December 2012	3.0	1.6	1.3	0.8	2.0	1.8	5.3	1.6
January 2013	7.0	1.4	2.5	1.2	1.1	1.8	2.3	2.4
Annual Average	4.1	0.9	1.1	0.7	0.9	1.5	1.5	1.6

Results confirm low dust levels at all monitoring locations over the last three months, except at the Whitehaven owned "Yarrowonga" in December 2012 and "Glenroc" in January 2013. At the "Yarrowonga" monitor, sample contamination was found to cause the elevated result (lizard). The "Glenroc" monitor was damaged in January which caused the elevated result and has since been repaired.

In December 2012, a deposited dust gauge was installed at the "Penryn" property at the landholder's request. This gauge has shown levels below compliance limits and will continue to be monitored.

The annual average at all sites remains well below the concentration threshold of $4\text{g/m}^2/\text{month}$, except for BD2 at "Glenroc". This monitor is located on the mining lease and has experienced two anomalous results causing the annual average to be slightly above $4\text{g/m}^2/\text{month}$.

A reporting error with the results for April 2012 for all monitoring locations was recently noticed. The results provided in the table have been updated to reflect the correct results supplied from the laboratory. All other results have been checked and were correct.

PM₁₀ Results

The annual averages for PM₁₀ levels up until the end of January 2013 remain below the annual average limit of 30µg/m³, as follows:

Costa Vale: 16.72µg/m³

Roseberry: 10.89µg/m³

The 24hr criterion was not breached during the reporting period at either monitor. The real time PM₁₀ monitor at “Roseberry” is currently operating to send alarms to operations in the event that PM₁₀ levels approach compliance limits.

Water Monitoring

Ground Water

Groundwater monitoring data obtained to date is presented in the following table. Standing Water Level (SWL) graphs are also provided.

Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
MP2	September 08	13.53		
	13 October 08	12.98		
	23 October 08	13.56		
	29 October 08	13.20	7.3	4180
	23 January 09	14.60		
	22 June 09	13.70	7	5210
	15 September 09	13.88		
	30 November 09	13.90	6.99	4560
	25 February 10	14.14		
	3 May 10	14	7.37	4760
	26 August 10	13.48	7.07	5060
	8 November 10	12.04	6.72	3720
	7 March 11	10.49	6.98	4060
	3 May 11	11.1	6.95	4110
	30 August 11	11.54	7.27	5320
	4 November 11	11.78	6.8	3820
	21 March 12	8.17	7.01	4330
	23 May 12	8.43	7.32	4170
	27 August 12	8.71	7.16	4670
	26 November 12	9.33	7.07	4530
MP3	September 08	11.81		
	13 October 08	9.06		
	23 October 08	17.36		
	29 October 08	N/S Bore Dry		
	23 January 09	18.3 (mud)		
	22 June 09	N/S Bore Dry		
	15 September 09	Dry		
	30 November 09	Dry		

	25 February 10	Dry		
	3 May 10	Dry		
	26 August 10	Dry		
	8 November 10	Dry		
	7 March 11	Dry		
	3 May 11	Dry		
	30 August 11	Dry		
	4 November 11	Dry		
	20 March 12	Dry		
	23 May 12	Dry		
	27 August 12	Dry		
	26 November 12	Dry		
MP4	September 08	22.62		
	13 October 08	23.02		
	22 October 08	23.17		
	29 October 08	N/S Bore Dry		
	23 January 09	24.16 (mud)		
	22 June 09	N/S Bore Dry		
	15 September 09	Dry		
	30 November 09	Dry		
	25 February 10	Dry		
	3 May 10	Dry		
	26 August 10	Dry		
	8 November 10	Dry		
	7 March 11	Dry		
	3 May 11	Dry		
	30 August 10	Dry		
	4 November 11	Dry		
	20 March 12	Dry		
	23 May 12	Dry		
	27 August 12	Dry		
	26 November 12	Dry		
MP5	September 08	53.13		
	13 October 08	52.9		
	23 October 08	52.96		
	29 October 08	N/S Bore Dry		
	23 January 09	54.44 (mud)		
	22 June 09	N/S Bore Dry		
	15 September 09	Dry		
	30 November 09	54.4	Insufficient water to sample	
	25 February 10	54.48		
	3 May 10	54.6		
	26 August 10	54.69		
	8 November 10	54.88	Insufficient water to sample	
	2 March 11	54.85	Insufficient water to sample	
	3 May 11	54.8	Insufficient water to sample	
	30 August 11	54.89	Insufficient water to sample	
	4 November 11	54.78	Insufficient water to sample	
	20 March 12	54.85	Insufficient water to sample	
	23 May 12	54.41	Insufficient water to sample	
	28 August 12	55.43	Insufficient water to sample	
	26 November 12	54.95	Insufficient water to sample	
WB1	13 October 08	8.95		
	28 October 08	8.85	7.9	1996
	NO ACCESS			

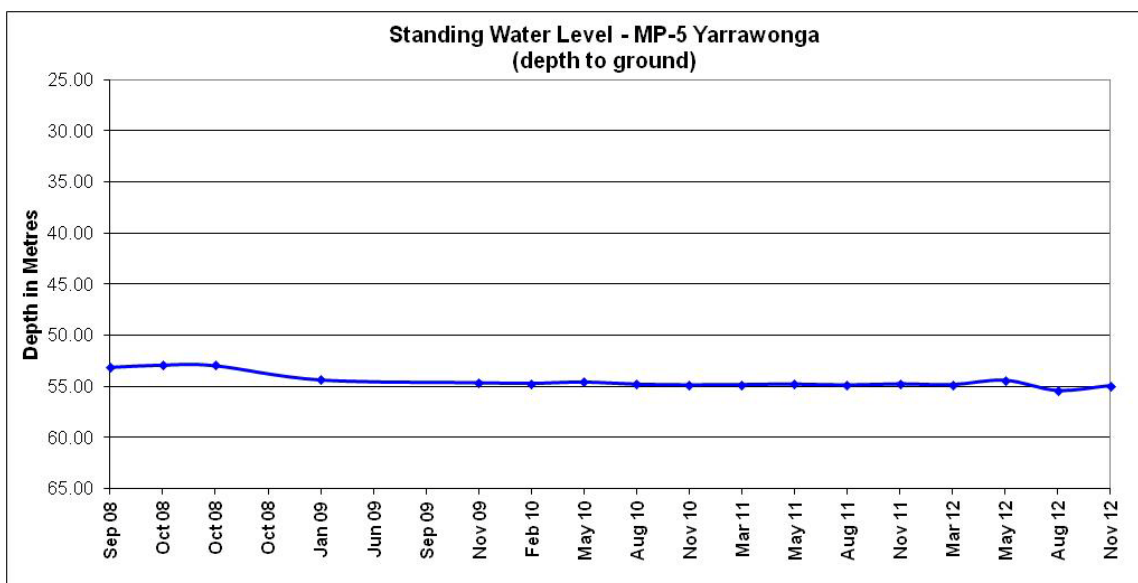
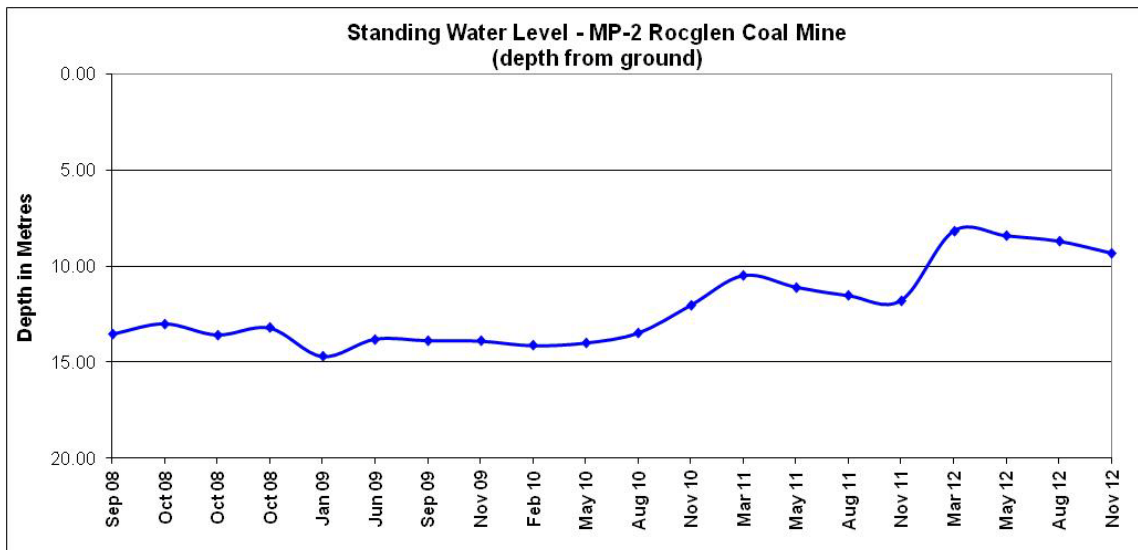
	21 March 12	8.49	7.98	1640
	24 May 12	8.52	8.03	1537
	27 August 12	7.82	No sample available	
	26 November 12	7.78	No sample available	
WB2	September 08	16.87		
	13 October 08	16.49		
	28 October 08	16.60	7.7	3430
	23 January 09	17.00		
	22 June 09	16.65	7.2	3160
	15 September 09	16.45		
	6 January 09	16.45	7.51	2010
	25 February 10	16.48		
	3 May 10	16.56	7.84	2190
	26 August 10	19.54	7.4	3000
	8 November 10	17.00	7.3	2410
	2 March 11	16.96	7.31	2450
	3 May 11	16.53	7.55	2360
	30 August 11	16.36	7.87	2880
	4 November 11	16.44	8.4	2110
	20 March 12	16.42	8.46	2410
	23 May 12	16.14	8.56	2610
	27 August 12	16.32	7.57	2240
	26 November 12	16.6	7.85	2560
WB3	September 08	8.82		
	13 October 08	8.87		
	29 October 08	8.95	7.2	4480
	23 January 09	23.72		
	10 February 09	9.0		
	22 June 09	8.99	7.5	4380
	15 September 09	8.76		
	30 November 09	8.8	7.74	3890
	25 February 10	8.69		
	3 May 10	18.53	7.88	4000
	26 August 10	8.94	8.28	3260
	8 November 10	8.98	8.02	2360
	2 March 11	17.63	7.44	3770
	3 May 11	9.07	7.7	3790
	1 September 11	9.14	8.32	4860
	6 December 11	9.07	7.05	3650
	20 March 12	8.71	6.95	3720
	23 May 12	8.49	No pump	
	27 August 12	8.32	No pump	
	26 November 12	8.2	No pump	
WB4	Casing Sealed	No Access		
	26 August 10	Unable to dip	7.83	3650
	2 March 11	Unable to dip	7.03	3320
	3 May 11	Unable to dip	7.1	3160
	1 September 11	Unable to dip	7.15	3650
	6 December 11	Unable to dip	7.36	3590
	20 March 12	Unable to dip	7.32	3680
	24 May 12	Unable to dip	7.91	3580
	28 August 12	Unable to dip	No sample	
	26 November 12	Unable to dip		
WB5	September 08	4.23		

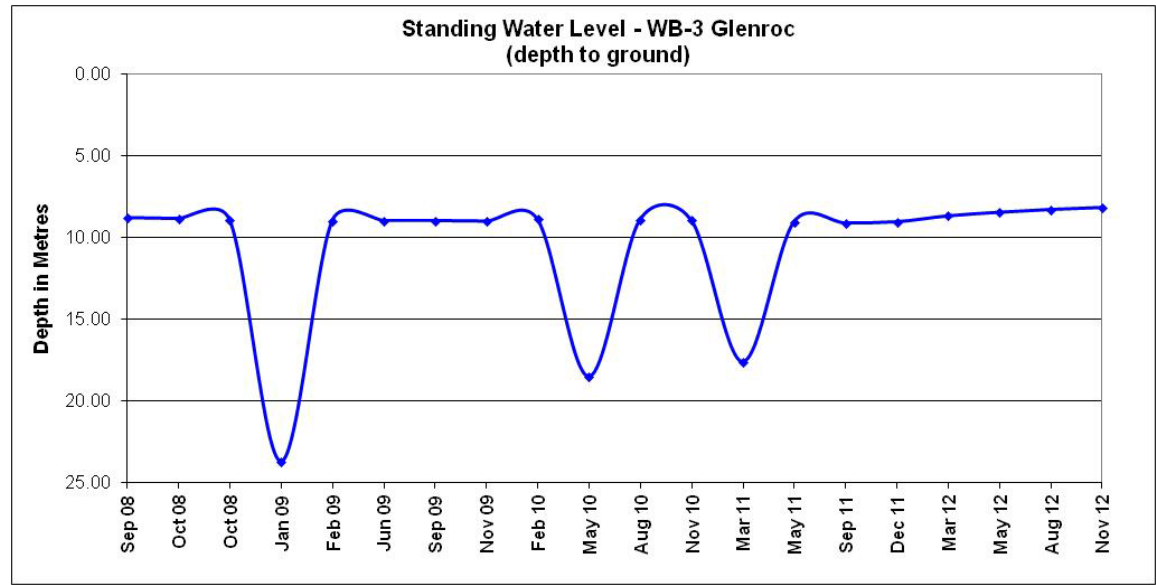
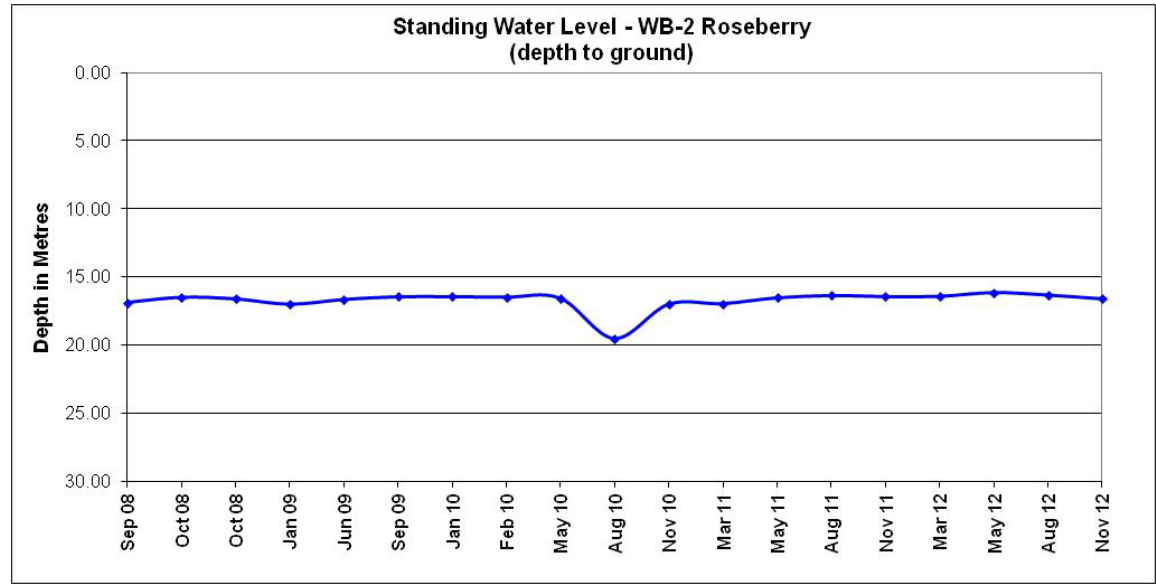
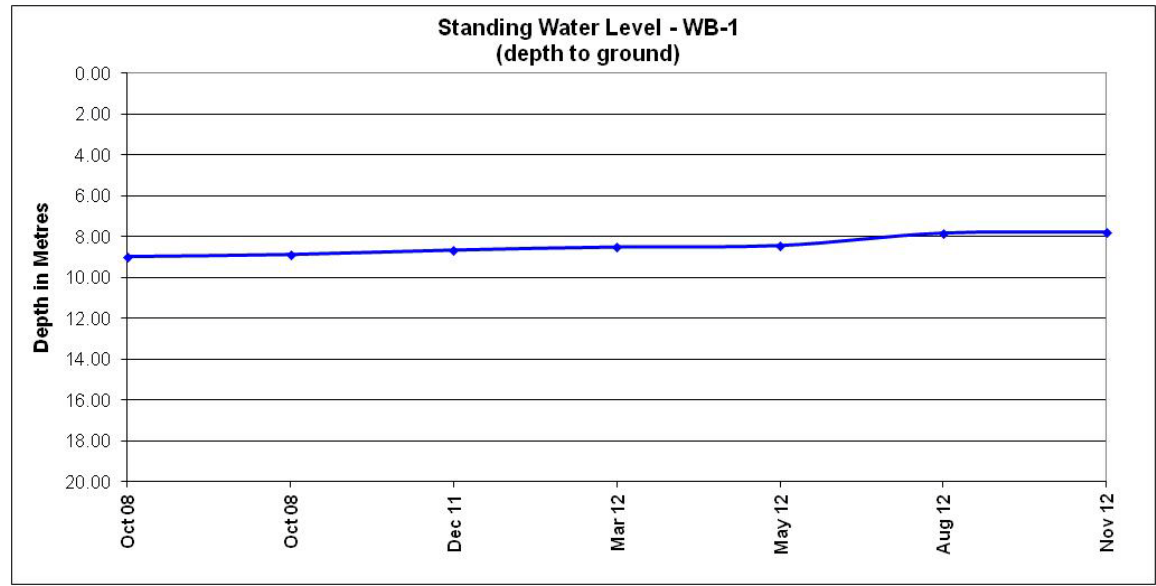
	13 October 08	12.92		
	28 October 08	12.85	7.2	8400
	23 January 09	13.1		
	22 June 09	No Access	6.6	7930
	15 September 09	No Access		
	30 November 09	22.93	7.06	4880
	25 February 10	13.14		
	3 May 10	12.97	7.43	6720
	26 August 10	13.01	7.47	7480
	8 November 10	14.06	7.86	5810
	2 March 11	20.99	6.45	5590
	3 May 11	12.7	6.8	5760
	30 August 11	12.7	7.85	7780
	4 November 11	12.79	7.9	5550
	20 March 12	10.26	7.82	6670
	23 May 12	9.06	8.17	6360
	27 August 12	12.5	8.19	6930
	26 November 12	11.42	7.68	6740
WB6	September 08	23.18		
	13 October 08	23.05		
	29 October 08	No Access		
	23 January 09	23.81		
	22 June 09	23.74	Unable to sample	
	15 September 09	23.83		
	30 November 09	24.02	No sample – bore equipped	
	25 February 10	25.05		
	3 May 10	23.71		
	26 August 10	23.47	Bore equipped	
	8 November 10	23.31	Bore equipped	
	7 March 11	22.74	Bore equipped	
	3 May 11	22.02	Bore equipped	
	30 August 11	22.55	Bore equipped	
	4 November 11	22.67	Bore equipped	
	20 March 12	21.72	Bore equipped	
	23 May 12	21.06	Bore equipped	
	27 August 12	20.62	Bore equipped	
	26 November 12	20.42	Bore equipped	
WB7	September 08	41.75		
	13 October 08	19.11		
	28 October 08	18.90	7.2	2730
	23 January 09	21.35		
	22 June 09		7.4	2690
	15 September 09	Bore equipped		
	30 November 09	Unable to dip	7.3	2260
	25 February 10	Unable to dip		
	3 May 10	15	7.45	2470
	26 August 10	25.91	Unable to sample – bore equipped	
	8 November 10	31.53	7.24	2240
	7 March 11	25.13	7.24	2230
	3 May 11	14.78	7.45	2130
	30 August 11	17.66	7.91	2750
	4 November 11	29.41	7.7	2080
	20 March 12	2.96*	7.41	3120
		*considered to be an incorrect reading		
	23 May 12	4.60	8.11	3070
	27 August 12	27.43	7.4	2840

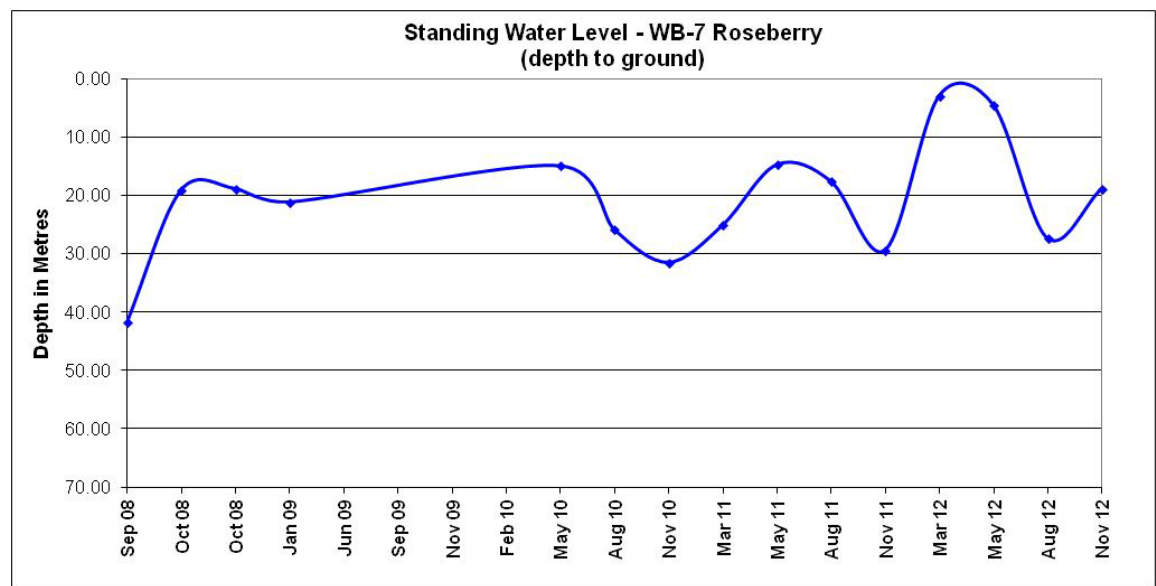
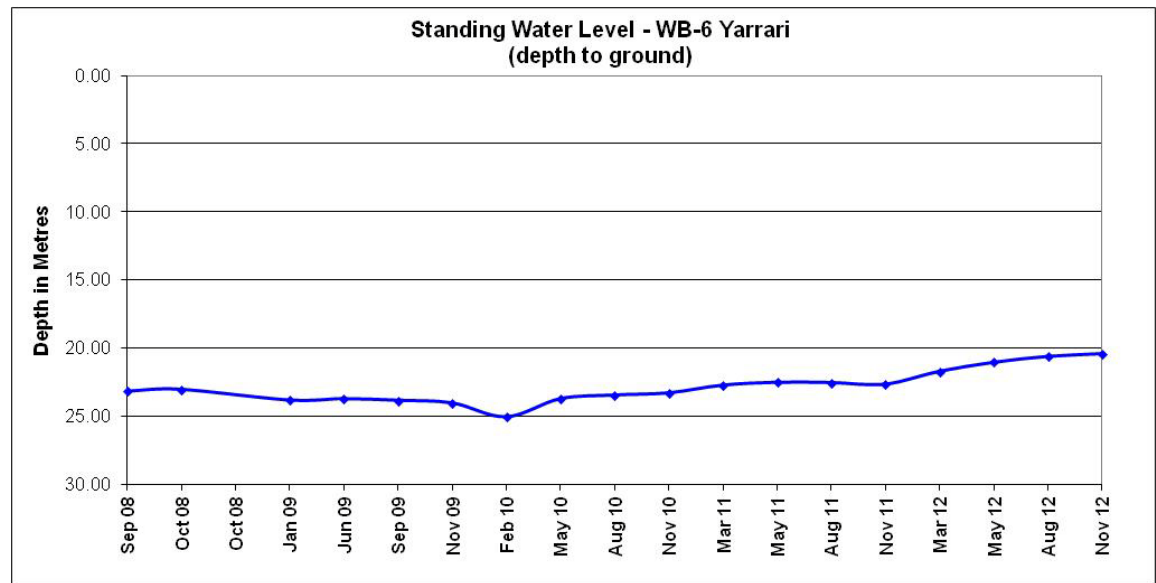
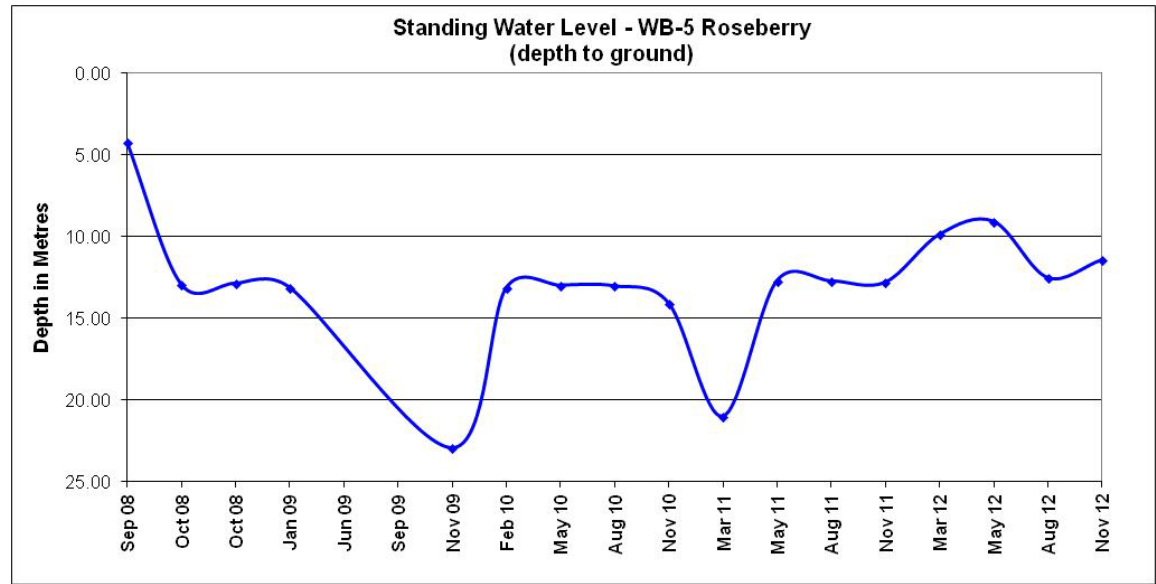
	26 November 12	18.87	7.18	2620
WB8	September 08	No Access		
	13 October 08	No Access		
	29 October 08	No Access		
	23 January 09	46.4		
	22 June 09	32.75	8.2	2240
	15 September 09	43.38		
	30 November 09	Dry		
	25 February 10	49.32		
	3 May 10	32.59	Unable to Sample – pump over bore	
	26 August 10	32.23	Unable to Sample – pump over bore	
	9 November 10	32.14	Unable to Sample – pump over bore	
	7 March 11		Unable to Sample – gate locked	
	3 May 11		Unable to Sample – gate locked	
	1 September 11	31.77	Unable to Sample – pump over bore	
	6 December 11	31.58	Unable to Sample – pump over bore	
	21 March 12	31.43	Unable to Sample – pump over bore	
	24 May 12	31.03	Unable to Sample – pump over bore	
	28 August 12	31.43	Unable to Sample – pump over bore	
	27 November 12	31.31	Unable to Sample – pump over bore	
WB9	September 08	23.88		
	13 October 08	24.09		
	28 October 08	24.50	7.5	931
	23 January 09	24.27		
	22 June 09	23.99	7.9	1080
	15 September 09	23.94		
	30 November 09	24.05	7.14	1020
	25 February 10	25.58		
	3 May 10	24.26	Unable to Sample	
	26 August 10	24.59	7.72	1057
	9 November 10	24.34	Windmill over bore	
	7 March 11	26.7	7.44	1143
	3 May 11	25.26	7.6	1014
	30 August 11	24.36	7.92	1260
	4 November 11	24.58	7.7	937
	20 March 12	24.59	7.58	1126
	23 May 12	24.21	8.15	902
	27 August 12	23.99	8.27	1010
	26 November 12	23.86	8.14	995
WB10	July 08	13.75		
	September 08	13.80		
	13 October 08	13.77		
	28 October 08	13.9	7.4	2235
	27 January 09	14.23		
	22 June 09	14.01	7	2220
	11 September 09	14.65		
	30 November 09	14.62	6.89	1690
	25 February 10	14.23		
	3 May 10	14.47	7.93	2010
	24 September 10	14.05	6.7	1833
	10 November 10	14.1	6.72	1905
	7 March 11	14.34	6.75	1910
	3 May 11	14.07	6.8	1685
	1 September 11	16.47	6.95	1745
	6 December 11	14.12	6.92	1780

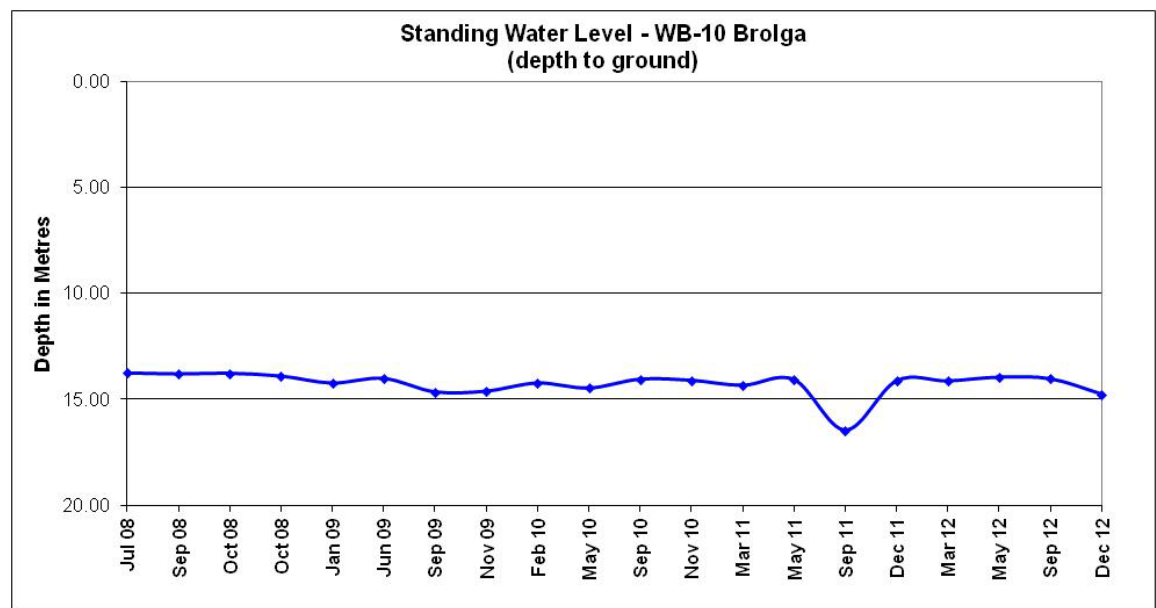
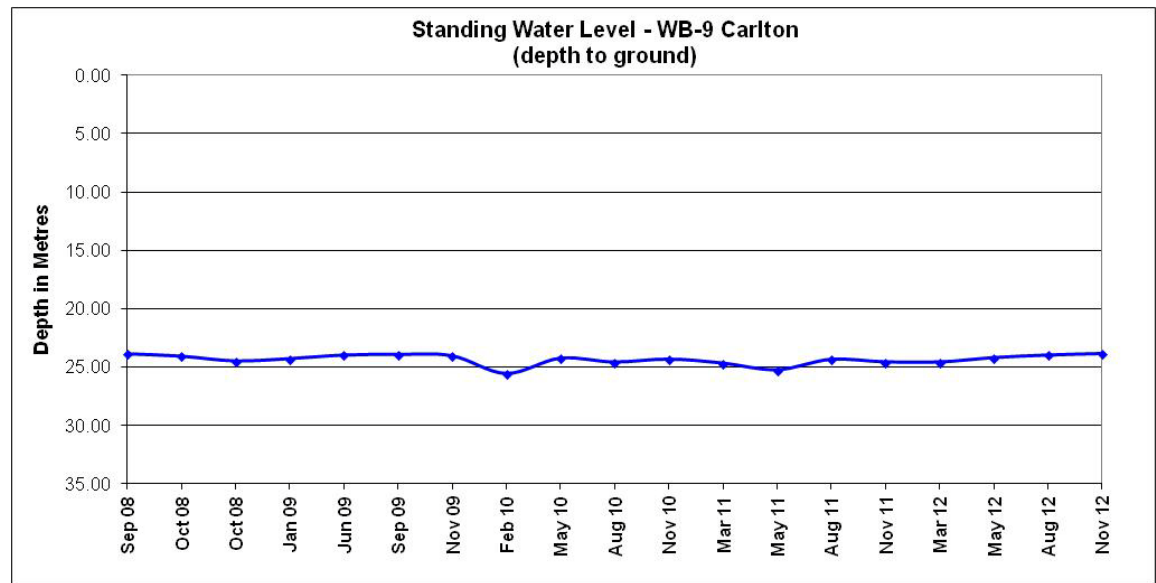
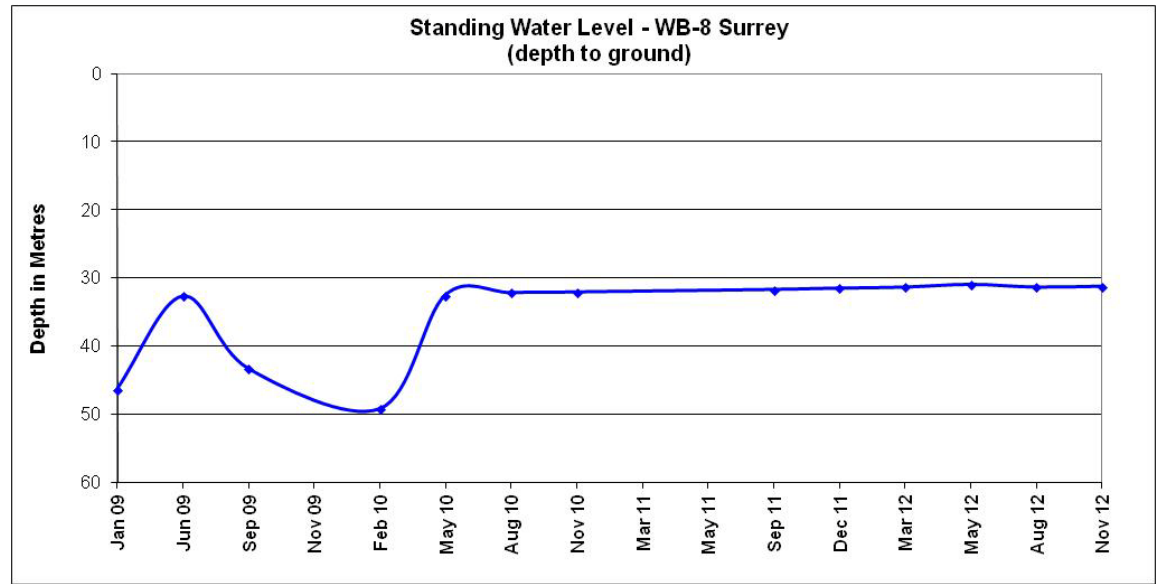
	21 March 12	14.13	6.94	1880
	24 May 12	13.95	6.68	1902
	4 September 12	14.03	6.92	1870
	13 December 12	14.76	6.94	1696
WB11	July 08	18.11		
	September 08	18.61		
	13 October 08	18.13		
	28 October 08	18.4	7.5	1086
	27 January 09	18.73		
	22 June 09	18.1	8	880
	11 September 09	18.63		
	30 November 09	18.6	6.65	929
	25 February 10	18.47		
	3 May 10	18.24	8.37	921
	24 September 10	17.65	7.59	865
	10 November 10	17.49	7.49	867
	7 March 11	18.57	7.05	944
	3 May 11	17.34	7.25	867
	1 September 11	17.57	8.13	1200
	6 December 11	16.93	7.50	905
	21 March 12	16.15	7.93	910
	24 May 12	16.5	Pump over bore	
	4 September 12	16.17	Pump over bore	
	13 December 12	Pump over bore		
WB12	July 08	12.73		
	September 08	12.80		
	13 October 08	12.83		
	28 October 08	12.95	8.1	2152
	27 January 09	13.16		
	22 June 09	12.99	8	2070
	11 September 09	13.05		
	30 November 09	12.99	8.34	1640
	25 February 10	13.19		
	3 May 10	13.15	8.27	1390
	24 September 10	13.22	8.71	873
	10 November 10	13.13	7.07	891
	7 March 11	13.18	7.37	1867
	3 May 11	13.15	7.45	1657
	1 September 11	13.23	8.57	2130
	6 December 11	13.13	7.66	1390
	21 March 12	13.08	7.92	885
	24 May 12	13.14	7.19	2150
	4 September 12	13.08	7.3	2150
	13 December 12	13.13	7.61	1907
Production Bore	September 08	55.24		
	13 October 08	50.18		
	28 October 08	49.90	7.3	4030
	27 January 09	49.90		
	22 June 09	>50	7.1	3580
	27 August 09		7.3	3330
	30 November 09		7.2	3160
	25 February 10		Bore equipped	
	3 May 10		7.52	3310
	26 August 10	Bore Equipped	7.42	3340
	8 November 10	Bore Equipped	Pump not working	

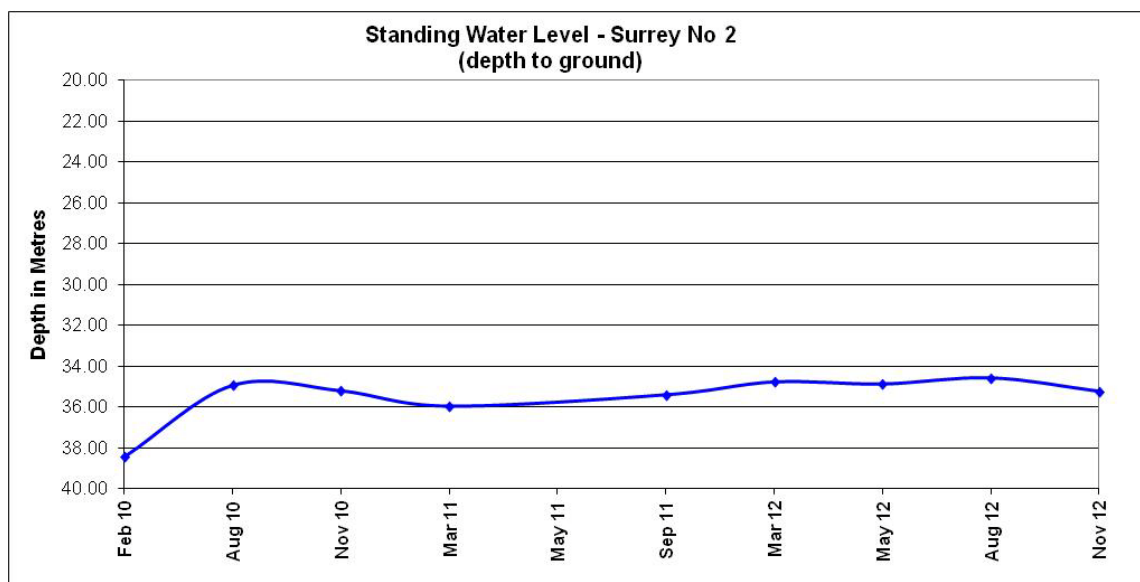
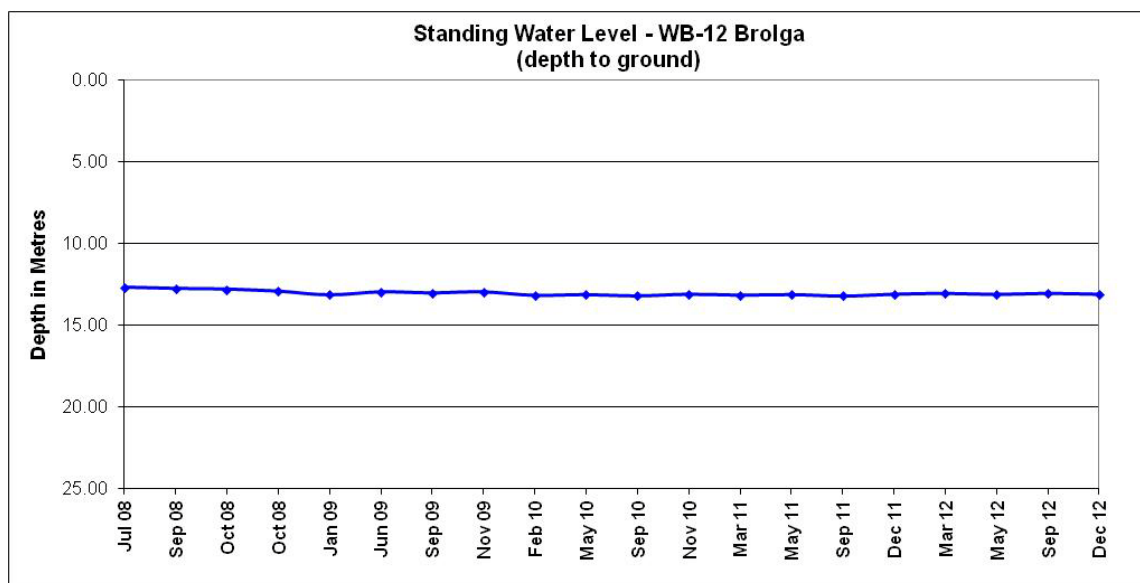
	7 March 11	Bore Equipped	6.97	2880
	3 May 11	Bore Equipped	7	2930
	30 August 11	Bore Equipped	7.25	3800
	4 November 11	Bore Equipped	7.1	2790
	20 March 12	Bore Equipped	6.92	3380
	23 May 12	Bore Equipped	7.51	3330
	27 August 2012	Bore Equipped	7.11	3390
	26 November 12	Bore Equipped	7.05	3360
Surrey No.2	25 February 2010	38.13		
	26 August 2010	34.66	7.25	3140
	9 November 2010	34.92	6.92	2380
	7 March 2011	35.66	7.15	3180
	1 September 2011	35.11	7.97	3320
	21 March 2012	34.49	7.88	1630
	24 May 2012	34.59	7.2	2790
	28 August 2012	34.29	7.15	3090
	27 November 2012	34.94	7.34	3100











Standing water levels have remained relatively consistent since the last CCC meeting, with only a slight drop showing in some monitoring bores. This is believed to be due to lower than average rainfall experienced during late 2012. WB5 and WB7 continue to show a fluctuating trend due to the use of the bores for stock watering purposes.

Surface Water

One discharge occurred via Licenced Discharge Point 11 at the south of the mine on the 31st January 2013, following 114.8mm of rainfall in the preceding 5 days. All water quality parameters were met other than Total Suspended Solids (TSS) where 404 mg/L was recorded. Due to the rainfall exceeding the 90thile storm event criteria as stated in the site's Environmental Protection Licence, the TSS limit of 50 mg/L is not applicable.

This rainfall at the end of January has triggered various water management practices on site, including targeting discharge dams as water cart fill points and sediment basin flocculation/pumping campaigns. These practices are in place to reduce the likelihood of a non-compliant discharge from site.

Complaints

Six complaints have been received over the reporting period as reported below:

26th November 2012

Complaint received in relation to noise and lights from Rocglen. Operations personnel were advised by the Environmental Officer to review lighting and direction, with one light identified to be facing south and subsequently adjusted. The matter of noise was discussed and the option of establishing a real time monitor at the property for a period to understand the measured noise levels.

3rd December 2012

The complaint was in relation to sheep from a nearby property getting into the complainant's property via mine owned land. The sheep are known for getting out of the neighbouring property in all locations. The complainant indicated he would be taking action to have the sheep impoundment and then Whitehaven could sort it out with the Livestock Health and Pest Authority. It was explained to the complainant that the sheep are the owner's responsibility, with the Environmental Field Officer checking boundary fencing between Whitehaven owned land and property to identify any potential points of access.

10th December 2012

Complaint in relation to the impact of dust produced from a wind storm on the previous day and expressed concern that the dust was possibly produced from the Rocglen Mine. Complainant advised that she had not seen this type of dust before, describing it as a brown/orange colour and that it was deposited throughout the complainant's residence. Complainant also expressed concern that the real time noise unit which is currently at the complainant's residence is not monitoring 25% of their property and is more likely to be representing 75% of the property.

Environmental Officer explained that he would investigate the wind direction during the wind storm via the sites weather station, to determine a possible source of the dust during the storm. It was also proposed to the complainant that the portable noise unit will be re-located in consultation with the complainant, to a location that represents 25% of the property. Upon investigation into wind speed and direction, it was found that during the wind storm, wind was from an easterly direction at speeds up to 23.8m/s. This concludes that Rocglen was not the source of dust as it is located directly south of the complainant's property. Written response provided to the complainant including investigation of wind direction during the storm. Agreement was made that attended monitoring is to take place next quarterly round, and not to move the real time monitor.

20th December 2012

Complaint in relation to the impact of blast dust at the complainant's property from a blast initiated at Rocglen at 12:00pm on the day.

Environmental Officer contacted the complainant and explained the wind conditions at the time of the blast, which were 2.9m/s from a north-north west direction. It was explained that the blast was not predicted to produce such dust, as it was low within the pit and wind speeds in the hour leading up to the blast were acceptable at 3.4m/s. Upon review, the blast produced a significant dust cloud due to extremely dry material that was blasted and the dust did not disperse as quickly as expected, moving in a south easterly direction.

A written response has been provided to the complainant including measures to be taken in future to minimise the impact of dust at the complainant's property during blasting (pre-blast inspections of wind direction and speed).

3rd January 2013

Complaint in relation to the impact of today's blast which shook the house and rattled windows. The complainants believe the mine is causing movement in their house.

The EO discussed the complaint with Rocglen's Operations Manager and Orica who indicated that the blast was quite small, was low in the pit, was in the north-eastern corner of the pit and the blast faced towards the west. The complainant's property is south-east of the mine. Blast monitoring at a property between the mine and the complainant's property indicated compliance.

An offer of blast monitoring at the complainant's property and a follow up inspection by a structural engineer was accepted by the complainant. Monitoring of blasts at the property is now being undertaken for all blasts, and a structural engineer's inspection of the property has taken place to assess whether any blast related damage has occurred.

3rd January 2013

Complaint in relation to lower than normal bore yields at a neighbouring property. An investigation commenced including the measurement of the bore's water level, which indicated negligible drop in water level. Agreement was reached with the complainant that the recent dry weather has reduced the yield of the bore and that quarterly monitoring of the bore will commence.

Rehabilitation

8 hectares of seeded rehabilitation on the western emplacement has shown good germination of grasses due to the recent rainfall (see Plate 1 and 2). Shaping of the northern emplacement has commenced, with topsoil spreading and the installation of drainage structures to commence in the coming weeks.



Plate 1 – Germination of grasses on southern side of the western emplacement



Plate 2 – Rehabilitation on southern side of western emplacement looking up-slope

Minutes of Rocglen Coal Mine Community Consultative Committee – Meeting #19

Meeting Held: Wednesday 8th May 2013

Venue: The meeting was held at the Rocglen Coal Mine Training Room

Commencement Time: 3:00pm

1. Present and Apologies

Present: Mr Rod Barnes (RB) (Community Representative)
Mr Tim Muldoon (TM) (Community Liaison Officer – Whitehaven)
Mr John Sturgess (JS) (Independent Chairperson)
Mr Warren Nicholls (WN) (Community Representative)
Mrs Jill Johnson (JJ) (Environmental Officer – Whitehaven)

Apologies: Mrs Pam Burns (PB) (Community Representative)
Mr Danny Young (DY) (Environmental Manager – Whitehaven)
Mr Jason Conomos (JC) (Operations Manager)
Mr Hans Allgayer (HA) (Gunnedah Shire Council Representative)

Apologies moved by WN and RB.

2. Declaration of Pecuniary Interests

Nil.

3. Previous Minutes

Minutes accepted as a true record on the motion of WN and RB.

4. Business Arising from Previous Minutes

- 4.1. JJ advised that the in perpetuity management funds had been submitted for retirement of credits. Formal advice from the Department hasn't been received however active management is expected to commence in the near future.
- 4.2. JJ advised that the boundary fencing between privately owned "Roseglass" and Whitehaven land had been completed. The "Roseberry"/Whitehaven owned land boundary fence will be the first work commenced when the annual funds for the Biodiversity Offset area are received.
- 4.3. JJ noted that works on the extension of the Wean Road upgrade are expected to commence next week. An advertisement had been published in the Namoi Valley Independent advising of the upcoming roadworks.

- 4.4. JJ said that she had contacted ALS to ensure they dip WB-11 (which is now equipped) however it was noted that it had again not been dipped in March. JJ to follow up again with ALS.
- 4.5. JJ advised that JC had spoken with the maintenance crews after the last meeting in relation to being considerate to neighbours whilst undertaking potentially noisy maintenance activities but there had since been a turn-over of some employees so he would note the issue again in toolbox talks.
- 4.6. JJ provided previous CCC minutes (from 2009) as well as the relevant Statement of Commitment from the original EA in relation to locking the gate on the Wean Road end of Shannon Harbour Road and again suggested that WN contact Council directly as she believed it was their initiative. RB and TM discussed the various processes of formally closing a road. WN said he has no objection to the road being closed so long as it's done properly. He assumed that the company did want it closed as the Vickery Project EIS doesn't even show the road. JJ said locking the gate a few years ago for Rocglen was a separate issue to Vickery and if Whitehaven requires the road to be formally closed for the Vickery Project they will go through the appropriate channels to do so. WN said he did go onto Shannon Harbour Road on occasions, not for business, just because it's a public road and he has a right to access it. JS suggested that if it's not an issue at this time we should just let it lie. WN said it's not an issue.

5. Mine Progress Report

JJ advised that in the 3 months until the end of April 1,680,339 million BCM of overburden was moved and 254,118 tonnes of coal was mined.

6. Review of Environmental Performance

JJ presented the environmental monitoring results which are attached in the environmental monitoring report, and include any complaints lodged over the reporting period.

RB said that Tony Heinrich (previous Rocglen Project Manager) had told the CCC at the beginning of operations at Rocglen that 1m of soil would be replaced on rehabilitation areas. JJ said she wasn't present at the time that Tony may have said that but she believed it would be unlikely that he did. There might be areas of the mine site where up to 1m of soil could be stripped but on average it would be less than that so you can't replace more soil than what is there in the first place. The standard soil replacement, which is subject to change due to site conditions, is 150mm of topsoil and 300mm of subsoil. Confirmed at the end of the meeting (from the Extension EA) that topsoil and subsoil are to be replaced at a depth of 100-150mm, giving a combined total of 200-300mm.

7. General Business

RB referred to the complaint discussed in the Environment Monitoring Report as being from him. He noted that all monitoring, except for one time, was PM rather than AM when he believes early morning is when the issue is worse. JJ said she would raise this with the noise monitoring consultants. RB commented about the unacceptable level of noise and dust at the time of this complaint and that even though he complained about the lighting plant, nothing was done to relocate it. JJ to confirm with operations if lighting plant positioning was assessed and modified if possible. RB also noted concern from Andrew Thibault about lights shining into lounge room (property >10km from the mine). RB said he thought lighting plants were always supposed to face the hill. JJ said operations aim to direct the lighting plant away from closest neighbours but there are sometimes difficulties with the location of dumping and safety considerations.

RB said that Tony Heinrich had told the Committee that operations would not occur on the weekend after midday on Saturday. JJ advised that since operations commenced at Rocglen they have been permitted to work 24 hours a day Monday to Saturday (with the exception of public holidays) but have not yet exercised that allowance. There have been shift changes recently as a result of the redundancies.

JJ informed the Committee that an Independent Environmental Audit had been undertaken prior to Easter, as required by the Project Approval. The site inspection and review of documentation identified that the site was operating generally in accordance with approval documents. A draft of the report was currently being reviewed by Whitehaven and when finalised by the consultants, and approved by the Department, a copy would be provided to the Committee and uploaded onto the Whitehaven website.

JJ referred to the letter issued to all CCC members in March in relation to redundancies at Rocglen and Tarrawonga and proposed re-utilisation of the gravel pit on the Whitehaven owned "Wean" property by Narrabri Shire Council for repair of flood damaged roads. RB asked why these documents had been sent to the CCC members and JJ and TM said to keep the local community informed first hand.

8. Next Meeting

The next meeting of the Rocglen CCC is scheduled for Wednesday 14th August 2013 at 3:00pm.

Meeting closed 3:55pm



J Sturgess
Chairman

Rocglen Coal Mine Community Consultative Committee Meeting #19

Environmental Monitoring Report February 2013 – April 2013

Noise Monitoring

Attended noise monitoring was undertaken on the 18th, 19th, and 20th March 2013, in accordance with the Rocglen Noise Monitoring Program and Environmental Protection Licence Guidelines (90 minutes during the day, 30 minutes during the evening and 60 minutes during the night and occur for 3 consecutive operating days) with results outlined below:

Surrey

RCM Operational Noise Monitoring Results – 18 th , 19 th and 20 th March 2013				
Date	Time	dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources as dB(A) Leq (15 min)
18 March 2013 (day)	1:05 pm	36	1.3 m/s SE	Birds & insects (34), RCM (30) , cattle (28)
18 March 2013 (evening)	8:10 pm	31	3.8 m/s SSW	Insects (31), RCM barely audible
18 March 2013 (night)	10:24 pm	30	3.1 m/s E	Wind (30), insects (20), RCM (20)
19 March 2013 (day)	7:45 am	41	3.3 m/s ESE	Birds & insects (41), RCM (33)
19 March 2013 (evening)	7:56 pm	30	1.3 m/s S	Insects (30), RCM inaudible
19 March 2013 (night)	10:01 pm	43	4.9 m/s E	Wind (40), insects (40), RCM inaudible
20 March 2013 (day)	1:12 pm	37	1.5 m/s E	Birds & insects (37), RCM (25)
20 March 2013 (evening)	9:05 pm	35	3.6 m/s E	Insects (35), RCM (20)
20 March 2013 (night)	11:05 pm	45	2.2 m/s ENE	Wind (45), RCM inaudible

Retreat

RCM Operational Noise Monitoring Results – 18 th , 19 th and 20 th March 2013				
Date	Time	dB(A), Leq (15 min)	Wind speed/ direction	Identified Noise Sources as dB(A) Leq (15 min)
18 March 2013 (day)	4:20 pm	34	1.7 m/s S	Birds & insects (34), RCM (<20)
18 March 2013 (evening)	9:12 pm	39	3.3 m/s S	Insects (35), wind (35), RCM inaudible
18 March 2013 (night)	11:40 am	27	4.2 m/s E	Insects (25), RCM (23)
19 March 2013 (day)	9:20 am	45	3.9 m/s ESE	Birds & insects (45), RCM inaudible
19 March 2013 (evening)	9:09 pm	29	4.6 m/s ESE	Insects (29), RCM (18)
19 March 2013 (night)	1:10 am	34	4.7 m/s E	Wind (32), insects (30), RCM inaudible
20 March 2013 (day)	10:00 am	35	2.5 m/s E	Birds & insects (35), RCM inaudible
20 March 2013 (evening)	8:15 pm	36	1.6 m/s E	Insects (36), RCM inaudible
20 March 2013 (night)	10:01 pm	40	3.7 m/s ENE	Wind (38), insects (35), RCM inaudible

The results show that, under the operating and meteorological conditions at the time of monitoring, the mine noise did not exceed the operational noise criterion at any monitoring location or at any time.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) L1 (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 L1 (1 min) noise from the mine did not exceed 45 dB(A) at both monitoring locations, as shown overleaf:

RCM Sleep Disturbance Monitoring Results				
Date	Location	Time	dB(A),L1 (1 min)	Wind speed/ direction
18 March 2013	Surrey	10:24 pm	25	3.1 m/s E
19 March 2013	Surrey	10:01 pm	n/a	4.9 m/s E
20 March 2013	Surrey	11:05 pm	n/a	2.2 m/s ENE
18 March 2013	Retreat	11:40 am	31	4.2 m/s E
19 March 2013	Retreat	1:10 am	n/a	4.7 m/s E
20 March 2013	Retreat	10:01 pm	n/a	3.7 m/s ENE

Rocglen's real time noise monitor is currently located at the "Penryn" property. The monitor's alarm system is now in place which notifies operations when noise levels approach compliance limits and allows for the opportunity to adjust operations accordingly. Currently, in-pit dumping is prioritised during night operations to reduce the likelihood of operational noise impacts.

Blast Monitoring

Since the first blast there have been 148 blasts (until the end of April). All blasts during the monitoring period were compliant within the limits of 120dB and 10mm/s. One blast on the 23rd March 2013 recorded overpressure results over 115dB at two monitoring locations (118.9dB at "Roseberry" and 117.1dB at "Surrey"). This is within the allowable 5% of blasts in a 12 month period over 115dB, but below 120dB, and is therefore not considered a non-compliance. Vibration during this blast was well below the 5mm/s criteria.

Air Quality

Deposited Dust Results

The deposited dust results (g/m²/month) obtained for the site over the last 12 months are as follows:

Air Quality (Dust Deposition) Results								
Month	BD2 - Glenroc	BD3 - Belah	BD4 - Surrey	BD5 - Stratford	BD6 - Roseberry	BD7 - Roseglass	BD8 - Yarrowonga	BD2-a - Penryn
May 2012	2.0	1.0	1.2	0.6	0.8	0.8	0.9	-
June 2012	1.6	0.4	0.5	0.5	0.4	0.5	0.6	-
July 2012	1.6	0.2	0.5	0.3	0.4	0.4	0.6	-
August 2012	0.7	0.5	1.5	0.8	1.6	0.7	1.3	-
September 2012	2.1	1.8	0.7	1.4	2.3	1.7	1.5	-
October 2012	2.5	1.1	0.9	0.7	0.9	0.7	1.2	-
November 2012	2.6	1.0	1.5	0.8	0.4	0.5	1.5	-
December 2012	3.0	1.6	1.3	0.8	2.0	1.8	5.3	1.6
January 2013	7.0	1.4	2.5	1.2	1.1	1.8	2.3	2.4
February 2013	1.9	0.7	0.7	1.1	0.5	0.7	1.7	0.7
March 2013	2.6	0.7	1.6	1.6	0.3	0.2	1.1	0.4
April 2013	0.7	0.3	0.5	3.6	0.8	0.7	1.3	-
Annual Average	2.3	0.9	1.1	1.1	1.0	0.9	1.6	1.2

Results confirm compliance at all monitors throughout the reporting period. The annual average at all sites remains well below the concentration threshold of $4\text{g/m}^2/\text{month}$.

During the April monitoring dust gauge BD2-a “Penryn” was damaged, hence not recording a result. The gauge has been repaired for subsequent monitoring.

PM₁₀ Results

The annual averages for PM₁₀ levels up until the end of March 2013 (April results not yet available) remain below the annual average limit of $30\mu\text{g/m}^3$, as follows:

Costa Vale: $17.59\mu\text{g/m}^3$

Roseberry: $11.98\mu\text{g/m}^3$

The 24hr criterion was not breached during the reporting period at either monitor. The real time PM₁₀ monitor at “Roseberry” is currently operating to send alarms to operations in the event that PM₁₀ levels approach compliance limits.

Water Monitoring

Ground Water

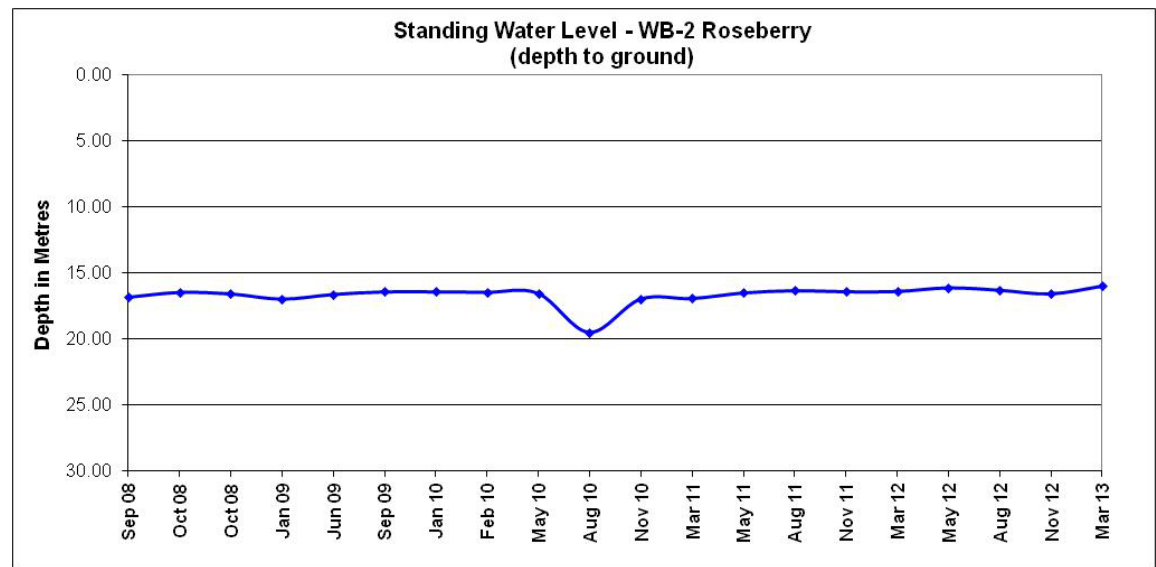
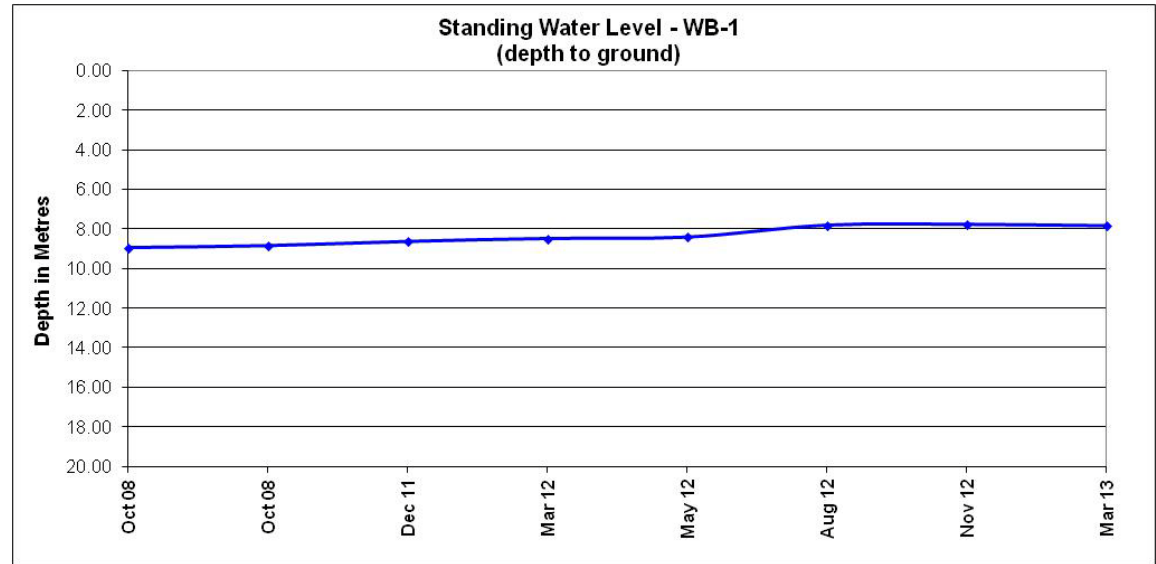
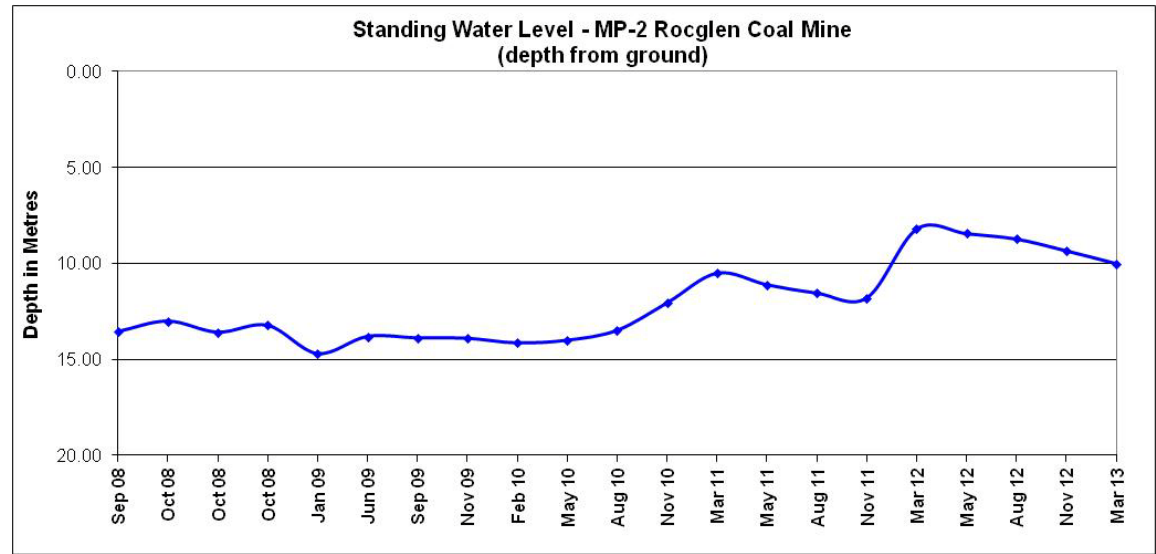
Groundwater monitoring data obtained to date is presented in the following table. Standing Water Level (SWL) graphs of bores with sufficient data sets are also provided.

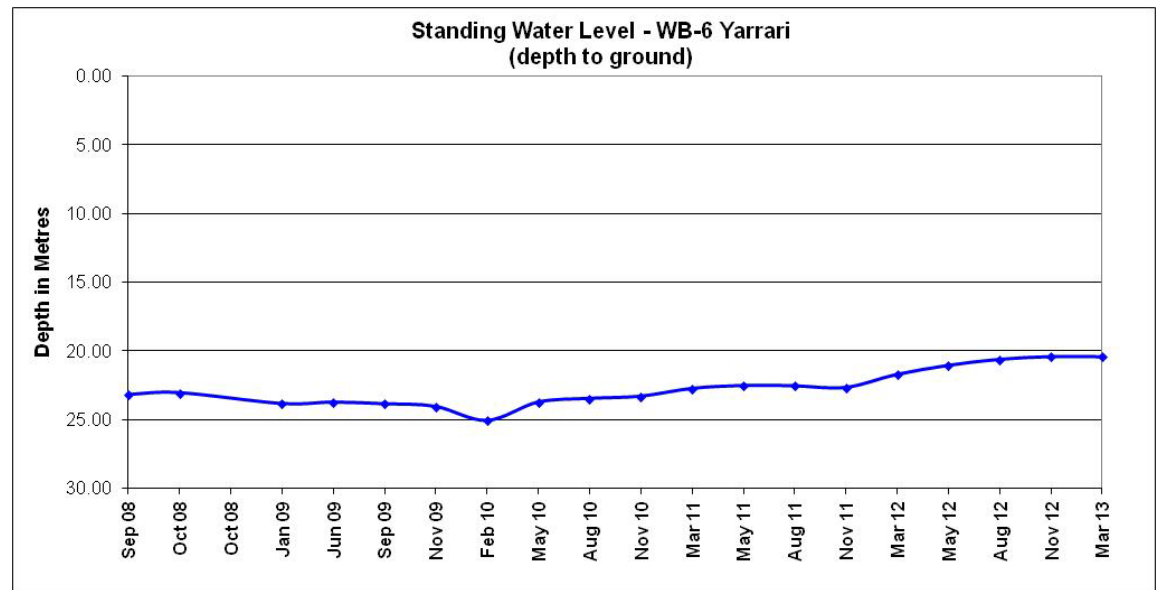
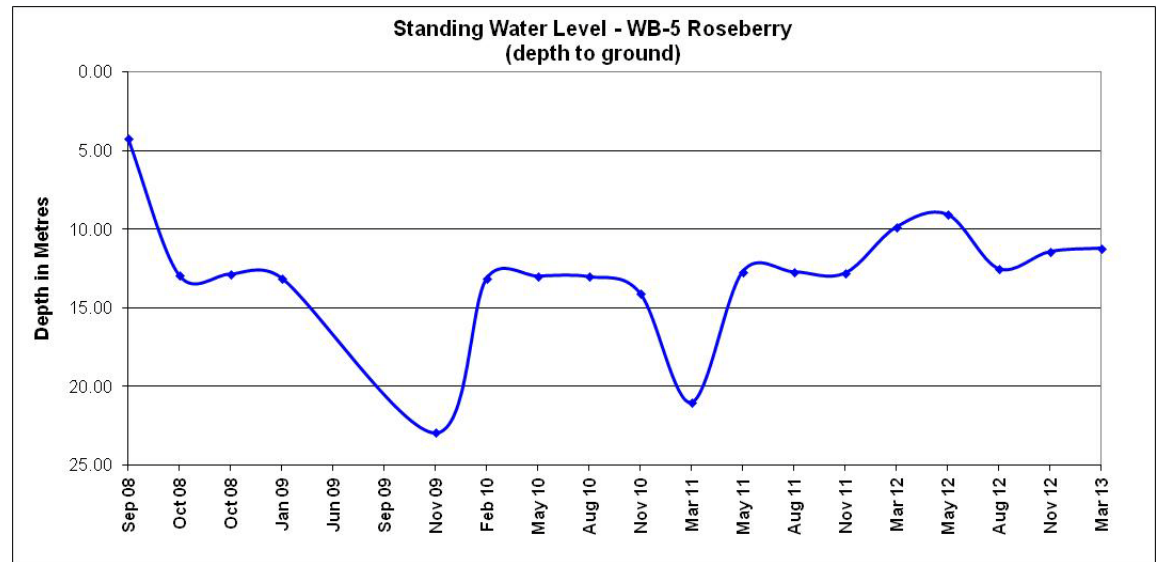
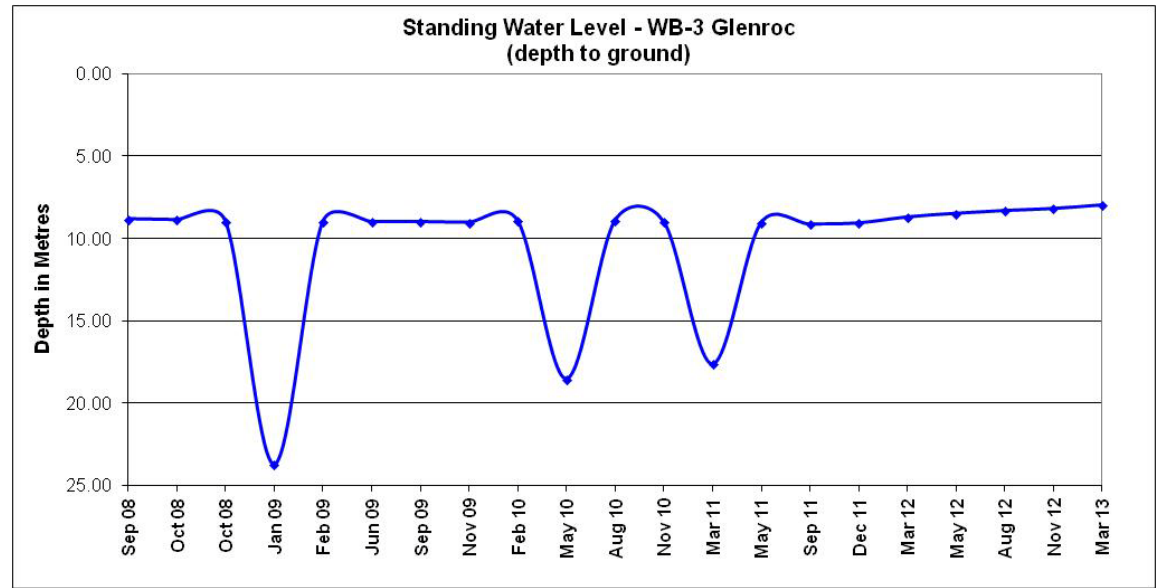
Site	Date	SWL (m)	pH	Elect. Conduct $\mu\text{s/cm}$
MP2	7 March 11	10.49	6.98	4060
	3 May 11	11.1	6.95	4110
	30 August 11	11.54	7.27	5320
	4 November 11	11.78	6.8	3820
	21 March 12	8.17	7.01	4330
	23 May 12	8.43	7.32	4170
	27 August 12	8.71	7.16	4670
	26 November 12	9.33	7.07	4530
	12 March 13	10.0	7.29	4620
MP2a	12 March 13	11.30	5.32	1340
	15 April 13	11.40		
MP3	7 March 11	Dry		
	3 May 11	Dry		
	30 August 11	Dry		
	4 November 11	Dry		
	20 March 12	Dry		
	23 May 12	Dry		
	27 August 12	Dry		
	26 November 12	Dry		
	12 March 13	18.6	Insufficient water to sample	
MP3a	12 March 13	22.30	7.48	1280
	15 April 13	22.38		
MP4	7 March 11	Dry		
	3 May 11	Dry		

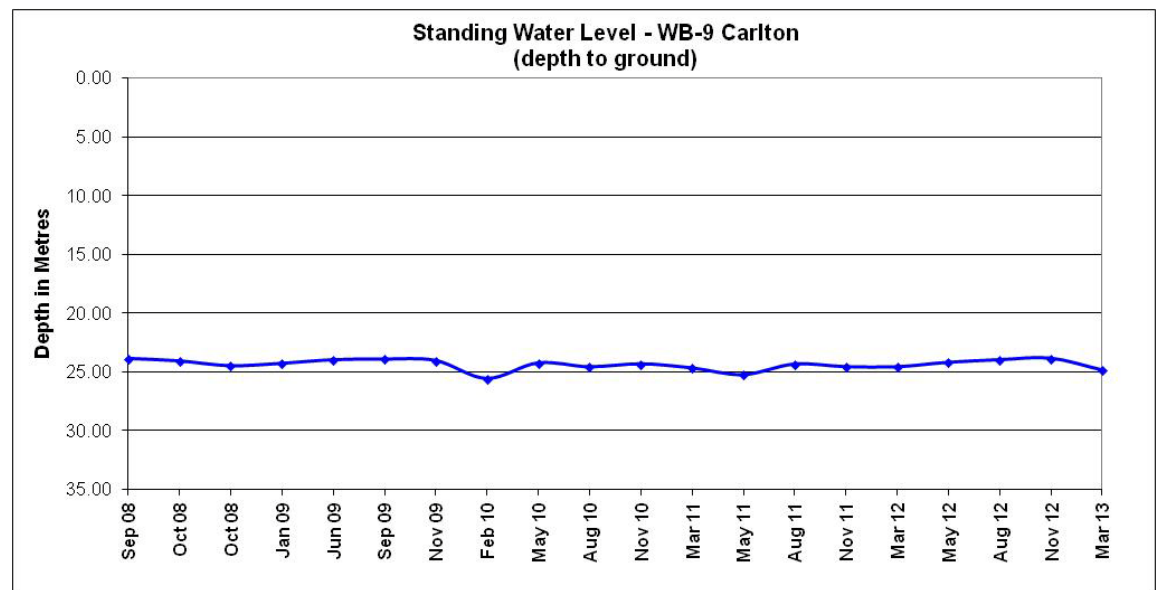
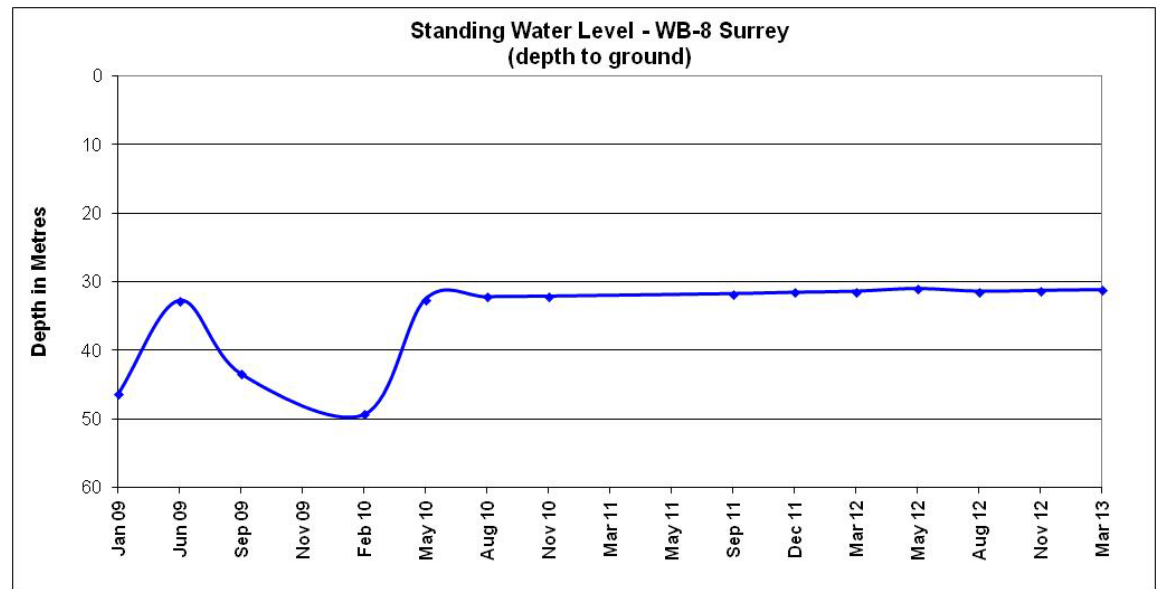
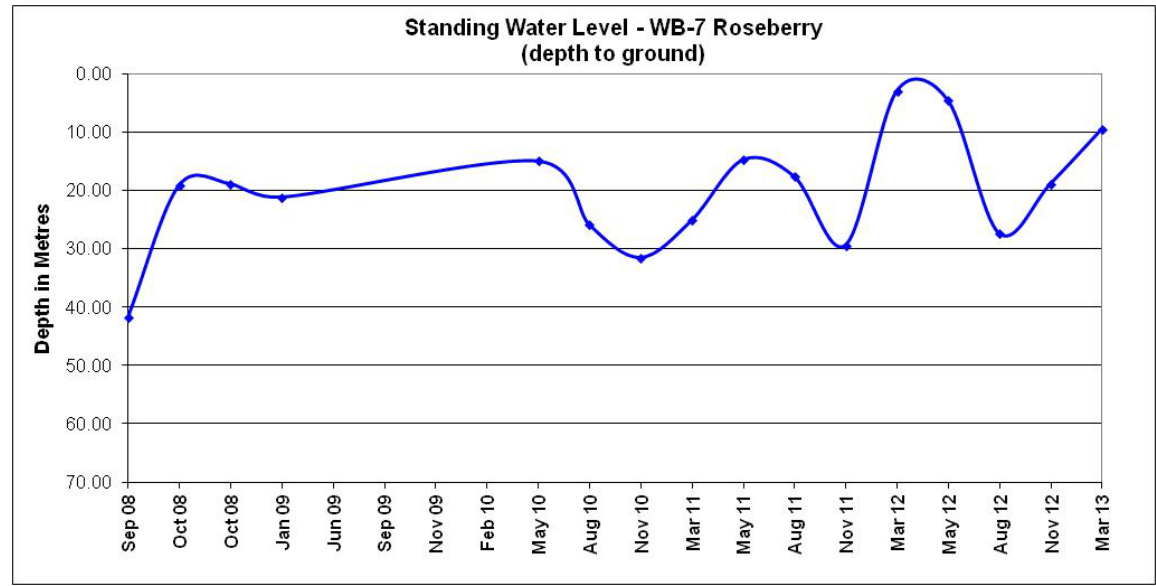
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
	30 August 10	Dry		
	4 November 11	Dry		
	20 March 12	Dry		
	23 May 12	Dry		
	27 August 12	Dry		
	26 November 12	Dry		
	12 March 13	Dry		
MP5	2 March 11	54.85	Insufficient water to sample	
	3 May 11	54.8	Insufficient water to sample	
	30 August 11	54.89	Insufficient water to sample	
	4 November 11	54.78	Insufficient water to sample	
	20 March 12	54.85	Insufficient water to sample	
	23 May 12	54.41	Insufficient water to sample	
	28 August 12	55.43	Insufficient water to sample	
	26 November 12	54.95	Insufficient water to sample	
	12 March 13	Dry	Insufficient water to sample	
MP5a	12 March 13	63.80	7.33	2790
	15 April 13	65.78		
MP6	12 March 13	7.91	5.47	4120
	15 April 13	7.99		
MP7	13 March 13	15.50	6.8	3230
	15 April 13	15.64		
MP8	13 March 13	15.80	4.73	1430
	15 April 13	15.79		
WB1	21 March 12	8.49	7.98	1640
	24 May 12	8.52	8.03	1537
	27 August 12	7.82	No sample available	
	26 November 12	7.78	No sample available	
	12 March 13	7.85	No sample available	
WB2	2 March 11	16.96	7.31	2450
	3 May 11	16.53	7.55	2360
	30 August 11	16.36	7.87	2880
	4 November 11	16.44	8.4	2110
	20 March 12	16.42	8.46	2410
	23 May 12	16.14	8.56	2610
	27 August 12	16.32	7.57	2240
	26 November 12	16.6	7.85	2560
	12 March 13	16.02	7.89	2570
WB3	2 March 11	17.63	7.44	3770
	3 May 11	9.07	7.7	3790
	1 September 11	9.14	8.32	4860
	6 December 11	9.07	7.05	3650
	20 March 12	8.71	6.95	3720
	23 May 12	8.49	No pump	
	27 August 12	8.32	No pump	
	26 November 12	8.2	No pump	
	13 March 13	7.98	No pump	

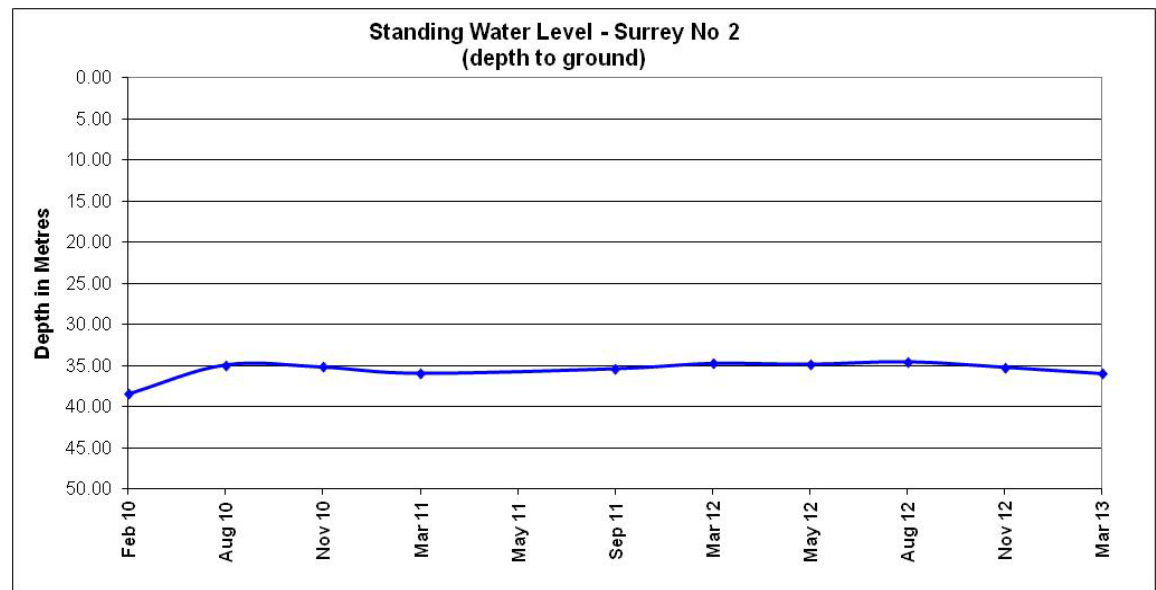
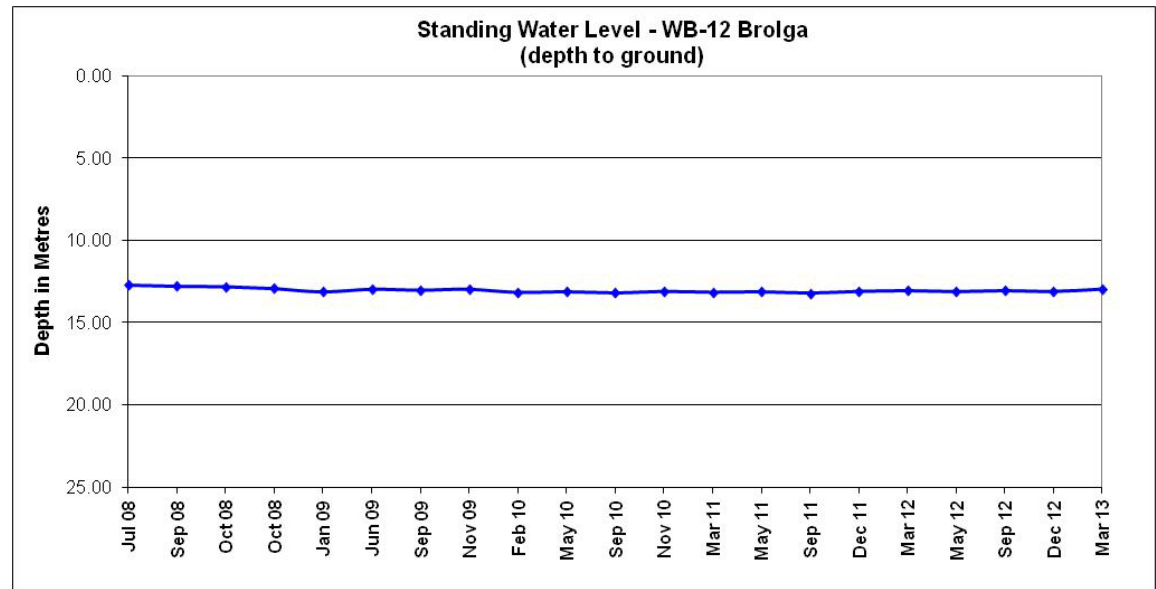
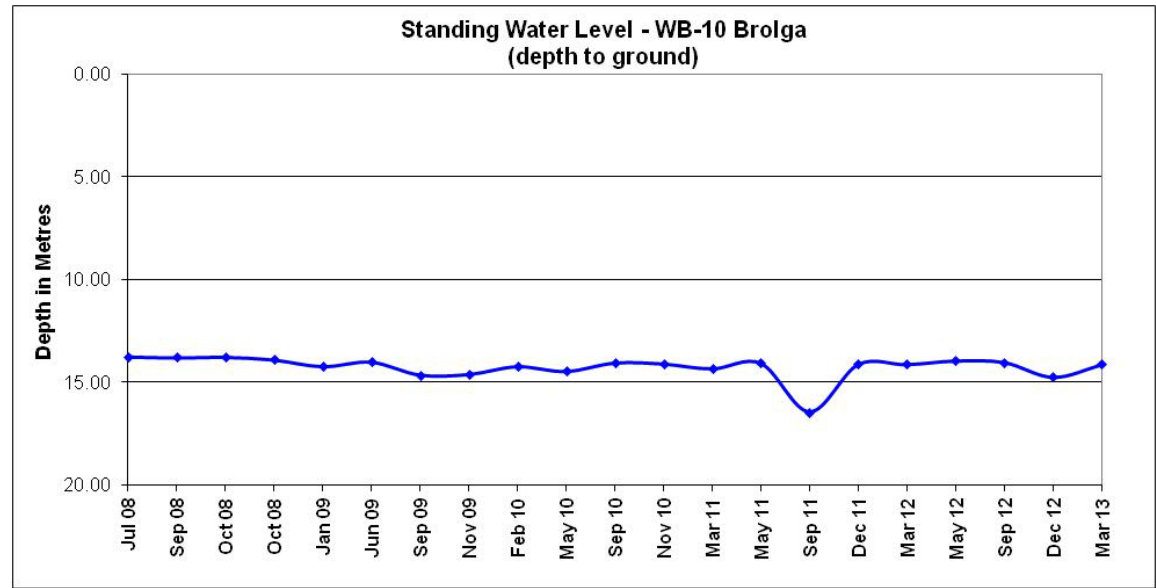
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
WB4	2 March 11	Unable to dip	7.03	3320
	3 May 11	Unable to dip	7.1	3160
	1 September 11	Unable to dip	7.15	3650
	6 December 11	Unable to dip	7.36	3590
	20 March 12	Unable to dip	7.32	3680
	24 May 12	Unable to dip	7.91	3580
	28 August 12	Unable to dip	No sample	
	26 November 12	Unable to dip	No sample	
	13 March 13	Unable to dip	No sample	
WB5	2 March 11	20.99	6.45	5590
	3 May 11	12.7	6.8	5760
	30 August 11	12.7	7.85	7780
	4 November 11	12.79	7.9	5550
	20 March 12	10.26	7.82	6670
	23 May 12	9.06	8.17	6360
	27 August 12	12.5	8.19	6930
	26 November 12	11.42	7.68	6740
	12 March 13	11.2	7.7	6890
WB6	7 March 11	22.74	Bore equipped	
	3 May 11	22.02	Bore equipped	
	30 August 11	22.55	Bore equipped	
	4 November 11	22.67	Bore equipped	
	20 March 12	21.72	Bore equipped	
	23 May 12	21.06	Bore equipped	
	27 August 12	20.62	Bore equipped	
	26 November 12	20.42	Bore equipped	
	12 March 13	20.43	Bore equipped	
WB7	7 March 11	25.13	7.24	2230
	3 May 11	14.78	7.45	2130
	30 August 11	17.66	7.91	2750
	4 November 11	29.41	7.7	2080
	20 March 12	2.96*	7.41	3120
		*considered to be an incorrect reading		
	23 May 12	4.60	8.11	3070
	27 August 12	27.43	7.4	2840
	26 November 12	18.87	7.18	2620
WB8	12 March 13	9.77	No access	
	7 March 11		Unable to Sample – gate locked	
	3 May 11		Unable to Sample – gate locked	
	1 September 11	31.77	Unable to Sample – pump over bore	
	6 December 11	31.58	Unable to Sample – pump over bore	
	21 March 12	31.43	Unable to Sample – pump over bore	
	24 May 12	31.03	Unable to Sample – pump over bore	
	28 August 12	31.43	Unable to Sample – pump over bore	
WB9	27 November 12	31.31	Unable to Sample – pump over bore	
	13 March 13	31.19	Unable to Sample – pump over bore	
	7 March 11	26.7	7.44	1143
	3 May 11	25.26	7.6	1014
	30 August 11	24.36	7.92	1260
	4 November 11	24.58	7.7	937
	20 March 12	24.59	7.58	1126

Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
	23 May 12	24.21	8.15	902
	27 August 12	23.99	8.27	1010
	26 November 12	23.86	8.14	995
	12 March 13	24.85	No access	
WB10	7 March 11	14.34	6.75	1910
	3 May 11	14.07	6.8	1685
	1 September 11	16.47	6.95	1745
	6 December 11	14.12	6.92	1780
	21 March 12	14.13	6.94	1880
	24 May 12	13.95	6.68	1902
	4 September 12	14.03	6.92	1870
	13 December 12	14.76	6.94	1696
	13 March 13	14.13	6.97	2020
WB11	7 March 11	18.57	7.05	944
	3 May 11	17.34	7.25	867
	1 September 11	17.57	8.13	1200
	6 December 11	16.93	7.50	905
	21 March 12	16.15	7.93	910
	24 May 12	16.5	Pump over bore	
	4 September 12	16.17	Pump over bore	
	13 December 12	Pump over bore		
	13 March 13	Pump over bore		
WB12	7 March 11	13.18	7.37	1867
	3 May 11	13.15	7.45	1657
	1 September 11	13.23	8.57	2130
	6 December 11	13.13	7.66	1390
	21 March 12	13.08	7.92	885
	24 May 12	13.14	7.19	2150
	4 September 12	13.08	7.3	2150
	13 December 12	13.13	7.61	1907
	13 March 13	12.98	7.73	1800
WB13	13 March 13	36.40	6.91	3410
Production Bore	7 March 11	Bore Equipped	6.97	2880
	3 May 11	Bore Equipped	7	2930
	30 August 11	Bore Equipped	7.25	3800
	4 November 11	Bore Equipped	7.1	2790
	20 March 12	Bore Equipped	6.92	3380
	23 May 12	Bore Equipped	7.51	3330
	27 August 2012	Bore Equipped	7.11	3390
	26 November 12	Bore Equipped	7.05	3360
	12 March 13	Bore Equipped	7.04	3420
Surrey No.2	7 March 2011	35.66	7.15	3180
	1 September 2011	35.11	7.97	3320
	21 March 2012	34.49	7.88	1630
	24 May 2012	34.59	7.2	2790
	28 August 2012	34.29	7.15	3090
	27 November 2012	34.94	7.34	3100
	13 March 13	35.69	7.44	3250









Standing water levels have remained relatively consistent since the last CCC meeting. WB7 continues to show a fluctuating trend due to the use of the bore for stock watering purposes.

Six new monitoring bores to the north and south of the mine have been drilled in accordance with the extension approval. Quarterly monitoring of these bores commenced in March 2013, with monthly water level monitoring occurring for the first 12 months. Two more monitoring bores are required by the approval and are to be drilled adjacent to MP4 on Surrey lane in the coming months, with council recently approving the drilling. Additionally, quarterly monitoring has commenced at WB13 "Carlton".

Surface Water

One wet weather discharge occurred on 2nd March 2013 from licensed discharge point 11, following 75.4mm of rainfall in the preceding 5 days. All water quality parameters were met other than Total Suspended Solids (TSS) where 374 mg/L was recorded. Due to the rainfall exceeding the 90thile storm event criteria as stated in the site's Environmental Protection Licence, the TSS limit of 50 mg/L is not applicable.

During the period, approximately 17.35 ML of water was used on site for dust suppression purposes.

Complaints

One complaint was received on the 1st May 2013 relating to noise, dust and light impacts at the "Surrey" property. The complaint was referred direct to the site Environmental Officer who was working night shift at the time for review, including check of lighting plant positions to minimise impacts at the complainant's property. It was noted at the time of the complaint that dumping operations were occurring as low as possible in pit. Coaling had only just recommenced following a period of no coal extraction, so trucks travelling back to the ROM may have influenced perceived noise levels, particularly with temperature inversions becoming more prevalent. Temperature inversions have also impacted on dust levels in recent times with dust held in an inversion layer. All efforts continue to be made to reduce dust generation on site.

Rehabilitation

During the period 6 hectares of the southern area of the western emplacement has been topsoiled with contour banks constructed. The area was seeded with a grass mix at the end of March, as shown in Plate 1. Additionally, 2 hectares on the western emplacement's plateau was topsoiled and seeded.

Extensive rehabilitation work has also taken place on the northern emplacement's lower tier, as shown in Plate 2. At the end of the period 11 hectares of the northern emplacement had been topsoiled, with contours constructed. Seeding took place incorporating a mix of grasses and understory shrubs with the intention of establishing bushland on designated areas of this emplacement. Continued shaping of the northern emplacement will allow progressive rehabilitation of the emplacement during the coming months.

Dry conditions over the past months have inhibited any germination of seed spread on these recently topsoiled areas.



Plate 1 – Progressive rehabilitation on the southern area of the western emplacement



Plate 2 – Northern emplacement rehabilitation and continued shaping in background

Minutes of Rocglen Coal Mine Community Consultative Committee – Meeting #20

Meeting Held: Wednesday 14th August 2013

Venue: The meeting was held at the Rocglen Coal Mine Training Room

Commencement Time: 3:00pm

1. Present and Apologies

Present: Mr Rod Barnes (RB) (Community Representative)
Mr Tim Muldoon (TM) (Community Liaison Officer – Whitehaven)
Mr John Sturgess (JS) (Independent Chairperson)
Mr Danny Young (DY) (Environmental Manager – Whitehaven)
Mr Jason Conomos (JC) (Operations Manager)
Mr Hans Allgayer (HA) (Gunnedah Shire Council Representative)
Mrs Jill Johnson (JJ) (Environmental Officer – Whitehaven)

Apologies: Mrs Pam Burns (PB) (Community Representative)
Mr Warren Nicholls (WN) (Community Representative)

Apologies moved by RB and HA.

2. Previous Minutes

Minutes accepted as a true record on the motion of HA and RB.

3. Business Arising from Previous Minutes

- 3.1. DY advised that the first year's funds for the Biobank area have been released so the area is now subject to active management. One of the first actions will be approximately 2km of fencing between "Yarrari/Belah" and "Roseberry". Whitehaven is currently seeking costings and work is expected to commence in the coming months. Other activities include feral animal and weed control.
- 3.2. DY advised that the form work has been completed for the Wean Road upgrade and tar sealing will occur in consultation with Gunnedah Shire Council. Council has advised not to seal it at this time of year and discussions are occurring around undertaking a preliminary seal now and final seal later in the year or whether to seal it all in one go when the weather warms up.
- 3.3. JJ noted that standing water level monitoring of WB-11 on "Brolga" has recommenced. Warren Nicholls was able to show the monitoring contractor how to move the pump to the side for access.
- 3.4. JC advised that maintenance crews had been reminded to be considerate of neighbours to minimise noise impacts. JC advised RB that if it occurs again to

let him know at the time or the next morning so it can be dealt with straight away.

- 3.5. JJ said she had spoken to the noise consultants about prioritising early morning noise monitoring at “Surrey” (when weather and other factors allow) as RB believes this is the noisiest time. The consultants advised JJ that they had spoke to RB whilst at his property and were therefore aware of the issue and would address it where possible.

4. Mine Progress Report

JC advised in the 3 months until the end of July that 1.25 million BCM of overburden was moved and 388,000 tonnes of coal was mined. Rehabilitation works are progressing well with the focus being mainly on the northern emplacement.

5. Review of Environmental Performance

DY presented the environmental monitoring results which are attached in the environmental monitoring report, and include any complaints lodged over the reporting period.

6. General Business

DY advised that WN had resigned from the Committee earlier in the day. A written resignation will be sought for provision to the Department of Planning and Infrastructure (DoPI). Given the limited number of Committee members it is likely an ad will be placed in the local paper seeking expressions of interest. DoPI will then appoint members based on their application. RB asked if he can suggest someone. DY said he could but they would have to apply through the appropriate channels and be appointed by DoPI as Whitehaven isn't able to choose members. DY said we will aim to have someone appointed by the next meeting. RB asked whether we should look at getting someone to replace PB as she has missed a lot of meetings.

JC noted Rocglen had experienced some theft lately and suggested that members keep an eye out.

RB said he is still coping plenty of noise and asked what can be done about black dust settling on the roof. JJ asked if RB had a first flush diverter on his house and he said he does but it's manual so he has to be there when it rains for it to work. DY said he will look into an automatic diverter as well as water samples from the tank and swab samples from the roof. DY to ask ALS to call RB to organise a time for sampling.

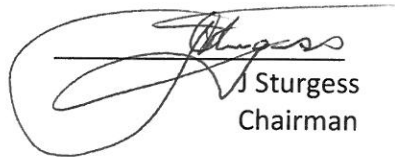
RB questioned repair of the fence between “Roseberry” and Whitehaven owned “Yarrari/Belah” because he is getting flooded with sheep from “Roseberry”. DY said there have been patch jobs but the full fence replacement (as discussed earlier in

the meeting) will commence in the next 6-8 weeks. RB said he heard there wasn't supposed to be any stock in the Biobank area. DY said that is the case and the fence will help with exclusion of stock.

7. Next Meeting

The next meeting of the Rocglen CCC is scheduled for Wednesday 13th November 2013 at 2:30pm and will include a site tour.

Meeting closed 3:25pm



J Sturgess
Chairman

Rocglen Coal Mine Community Consultative Committee Meeting #20

Environmental Monitoring Report May 2013 – July 2013

Noise Monitoring

Attended noise monitoring was undertaken on the 24th, 25th, 26th of June and the 1st and 2nd of July 2013, in accordance with the Rocglen Noise Monitoring Program and Environmental Protection Licence Guidelines (90 minutes during the day, 30 minutes during the evening and 60 minutes during the night and occur for 3 consecutive operating days) with results outlined below:

Surrey

RCM Operational Noise Monitoring Results – 24 th , 25 th , 26 th of June and 1 st and 2 nd of July 2013				
Date	Time	dB(A),Leq (15 min)	Wind speed/direction	Identified Noise Sources as dB(A) Leq (15 min)
24 th June	1:40 pm	31	2.3 / 292	Wind (28), Birds (27), RCM (<20)
24 th June	8:40 pm	31	1.3 / 42	RCM (31)
24 th June	10:10 pm	30	2.2 / 27	RCM (28) , wind (24)
25 th June	12:20 pm	25	2.1 / 271	Birds (25), RCM (<20)
25 th June	8:35 pm	42	Calm	Dog (41), RCM (32)
25 th June	10:10 pm	37	1.1 / 78	Sheep (34), RCM (33)
26 th June	1:22 pm	34	2.1 / 195	Birds & insects (34), RCM inaudible
1 st July	7:06 pm	35	6.4 / 184	Insects (35), RCM inaudible
2 nd July	12:05 am	35	1.6 / 143	Frogs (32), RCM (31)

Retreat

RCM Operational Noise Monitoring Results – 24 th , 25 th , 26 th of June and 1 st and 2 nd of July 2013				
Date	Time	dB(A),Leq (15 min)	Wind speed/direction	Identified Noise Sources as dB(A) Leq (15 min)
24 th June	3:20 pm	30	3.4 / 280	Birds (27), wind (26), RCM (<20)
24 th June	9:20 pm	34	1.9 / 53	RCM (34)
24 th June	11:20 pm	25	1.5 / 0	Winds (24), RCM (<20)
25 th June	2:05 pm	30	Calm	Birds (29), RCM (22)
25 th June	9:27 pm	25	0.7 / 88	Car (22), RCM (22)
25 th June	11:25 pm	25	Calm	Environment (25), RCM (<15)
26 th June	3:17 pm	32	3.3 / 176	Road works (32), RCM inaudible
1 st July	7:45 pm	41	5.9 / 188	Wind (39), plane (33), RCM (<25)
2 nd July	1:40 am	32	1.3 / 128	Frogs (31), RCM (25)

The results show that, under the operating and meteorological conditions at the time of monitoring, the mine noise did not exceed the operational noise criterion at any monitoring location or at any time.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) L1 (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 L1 (1 min) noise from the mine did not exceed 45 dB(A) at both monitoring locations, as shown below:

RCM Sleep Disturbance Monitoring Results				
Date	Location	Time	dB(A),L1 (1 min)	Wind speed/ direction
24 th June	Surrey	10:10 pm	33	2.2 / 27
25 th June	Surrey	10:10 pm	37	1.1 / 78
2 nd July	Surrey	12:05 am	35	1.6 / 143
24 th June	Retreat	11:20 am	<35	1.5 / 0
25 th June	Retreat	11:25 pm	<20	Calm
2 nd July	Retreat	1:40 am	30	1.3 / 128

Rocglen's real time noise monitor is currently located at the "Penryn" property. The monitor's alarm system notifies operations when noise levels approach compliance limits and allows for the opportunity to adjust operations accordingly. Currently, in-pit dumping is prioritised during night operations to reduce the likelihood of operational noise impacts.

Blast Monitoring

Since the first blast there have been 156 blasts (until the end of July). All blasts during the monitoring period were compliant within the limits of 120dB and 10mm/s.

Air Quality

Deposited Dust Results

The deposited dust results (g/m²/month) obtained for the site over the last 12 months are as follows:

Air Quality (Dust Deposition) Results								
Month	BD2 - Glenroc	BD3 - Belah	BD4 - Surrey	BD5 - Stratford	BD6 - Roseberry	BD7 - Roseglass	BD8 - Yarrawonga	BD2-a - Penryn
August 2012	0.7	0.5	1.5	0.8	1.6	0.7	1.3	-
September 2012	2.1	1.8	0.7	1.4	2.3	1.7	1.5	-
October 2012	2.5	1.1	0.9	0.7	0.9	0.7	1.2	-
November 2012	2.6	1.0	1.5	0.8	0.4	0.5	1.5	-
December 2012	3.0	1.6	1.3	0.8	2.0	1.8	5.3	1.6
January 2013	7.0	1.4	2.5	1.2	1.1	1.8	2.3	2.4
February 2013	1.9	0.7	0.7	1.1	0.5	0.7	1.7	0.7
March 2013	2.6	0.7	1.6	1.6	0.3	0.2	1.1	0.4
April 2013	0.7	0.3	0.5	3.6	0.8	0.7	1.3	-
May 2013	2.4	0.4	1.3	0.9	0.8	0.6	1.3	0.9
June 2013	1.8	0.4	0.4	0.4	0.4	0.5	0.7	0.3
July 2013	5.6	0.5	0.3	0.3	0.2	0.2	0.5	0.3
Annual Average	2.7	0.9	1.1	1.1	0.9	0.8	1.6	0.9

Results confirm compliance at all monitors throughout the reporting period, with the exception of BD2 at “Glenroc” where an anomalous result of 5.6 g/m²/month was recorded in July. As BD2 was located on mine owned land, in direct proximity to the northern overburden emplacement, this monitor has been removed and replaced with a new gauge (BD2a) at the “Penryn” property in accordance with the approved Air Quality and Greenhouse Gas Management Plan. The annual average at all sites remains well below the concentration threshold of 4g/m²/month.

PM₁₀ Results

The annual averages for PM₁₀ levels up until the end of July 2013 remain below the annual average limit of 30µg/m³, as follows:

Costa Vale: 15.25µg/m³

Roseberry: 12.00µg/m³

The 24hr criterion was not breached during the reporting period at either monitor. The real time PM₁₀ monitor at “Roseberry” is currently operating to send alarms to operations in the event that PM₁₀ levels approach compliance limits.

Water Monitoring

Ground Water

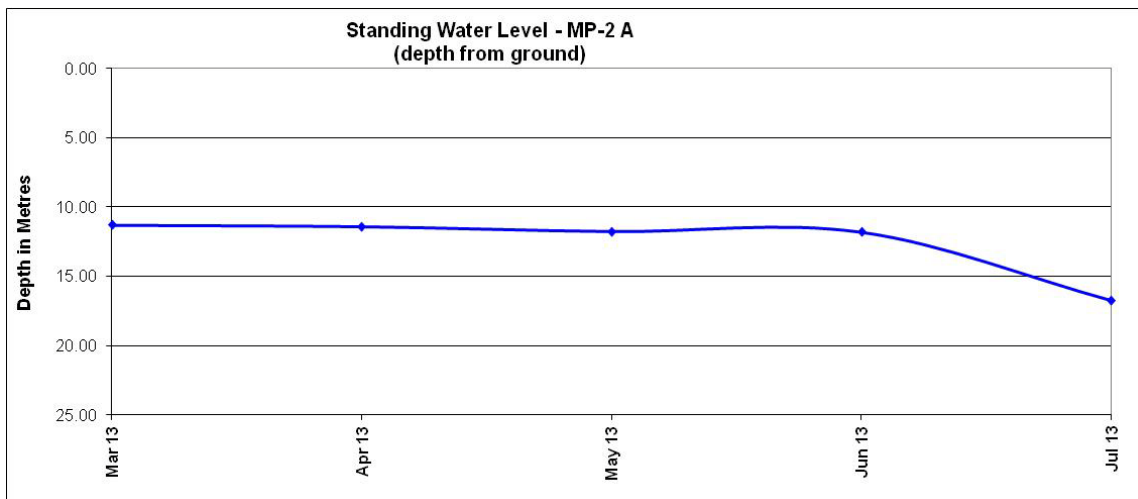
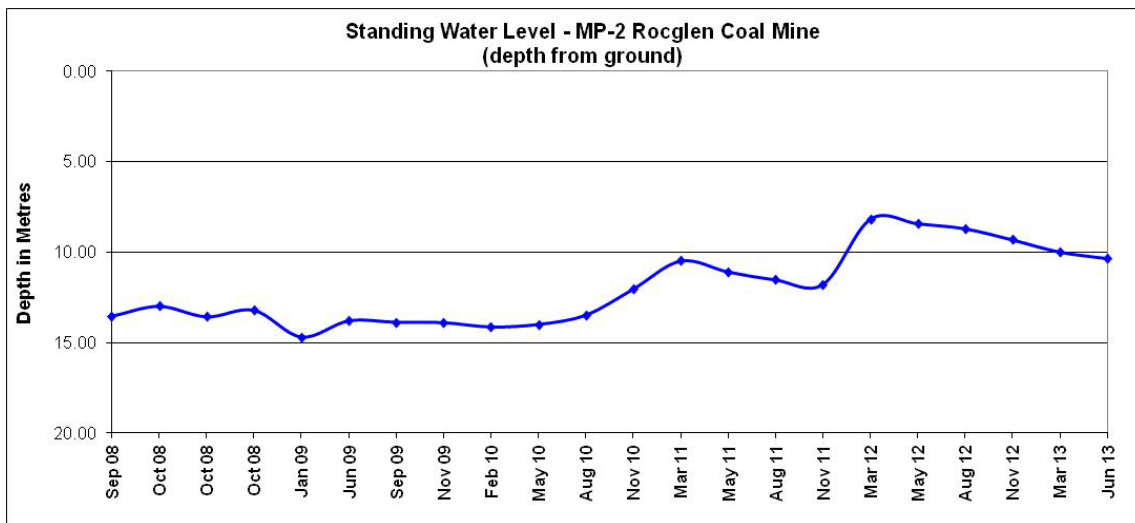
Groundwater monitoring data obtained to date is presented in the following table. Standing Water Level (SWL) graphs of bores with sufficient data sets are also provided.

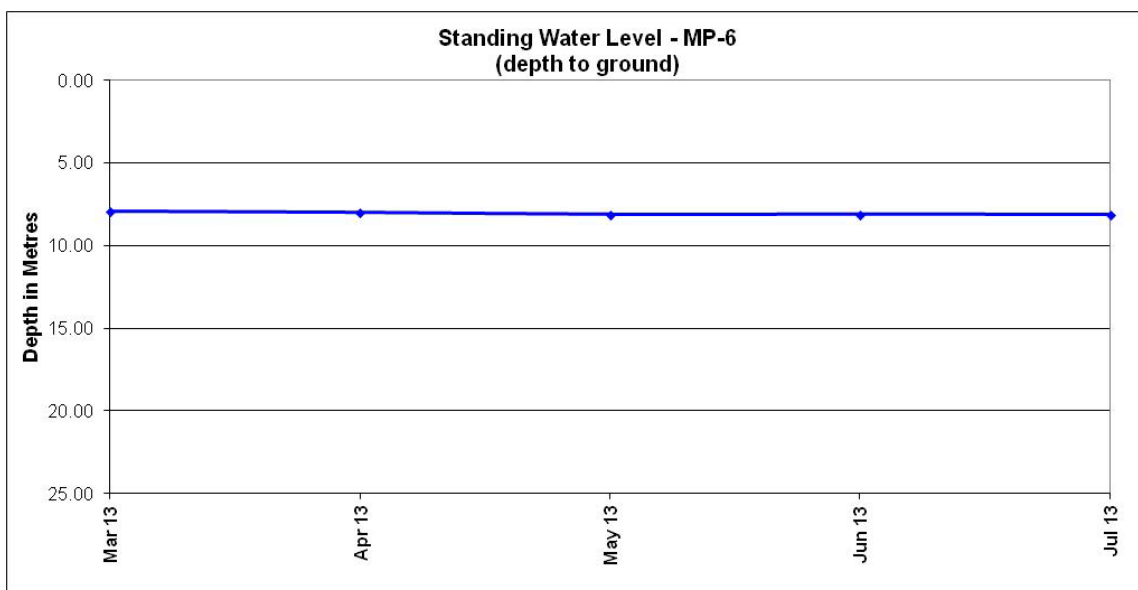
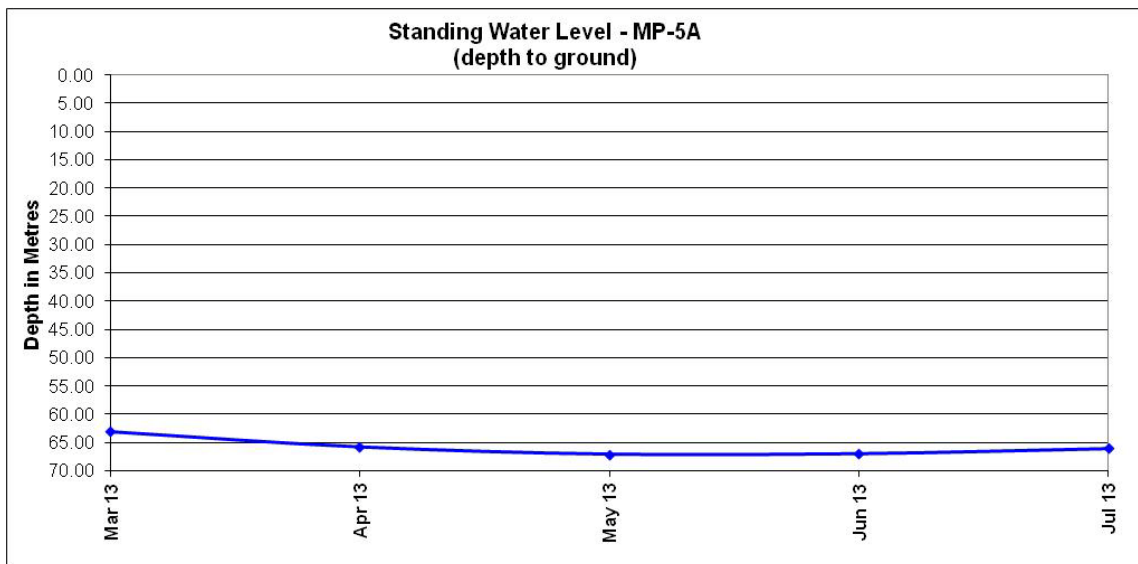
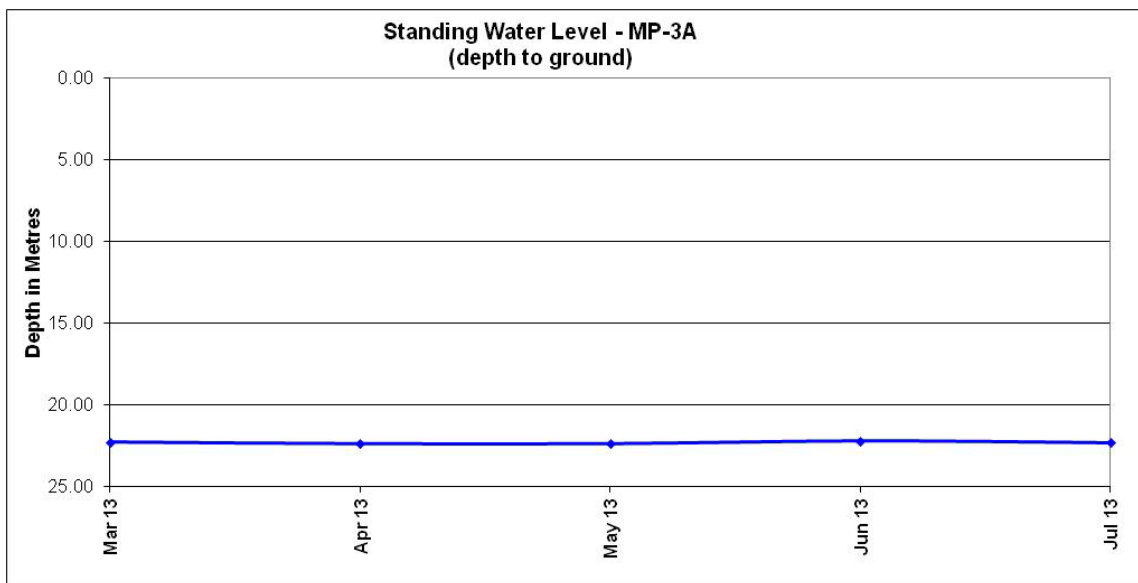
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
MP2	23 May 12	8.43	7.32	4170
	27 August 12	8.71	7.16	4670
	26 November 12	9.33	7.07	4530
	12 March 13	10.0	7.29	4620
	20 June 13	10.36	7.12	4710
MP2a	12 March 13	11.30	5.32	1340
	15 April 13	11.40		
	27 May 13	11.75		
	20 June 13	11.80	6.53	4490
	29 July 13	16.74		
MP3	23 May 12	Dry		
	27 August 12	Dry		
	26 November 12	Dry		
	12 March 13	18.6	Insufficient water to sample	
	12 June 13	18.25	Insufficient water to sample	
MP3a	12 March 13	22.30	7.48	1280
	15 April 13	22.38		
	27 May 13	22.38		
	12 June 13	22.25	7.79	1225
	29 July 13	22.34		
MP4	23 May 12	Dry		
	27 August 12	Dry		

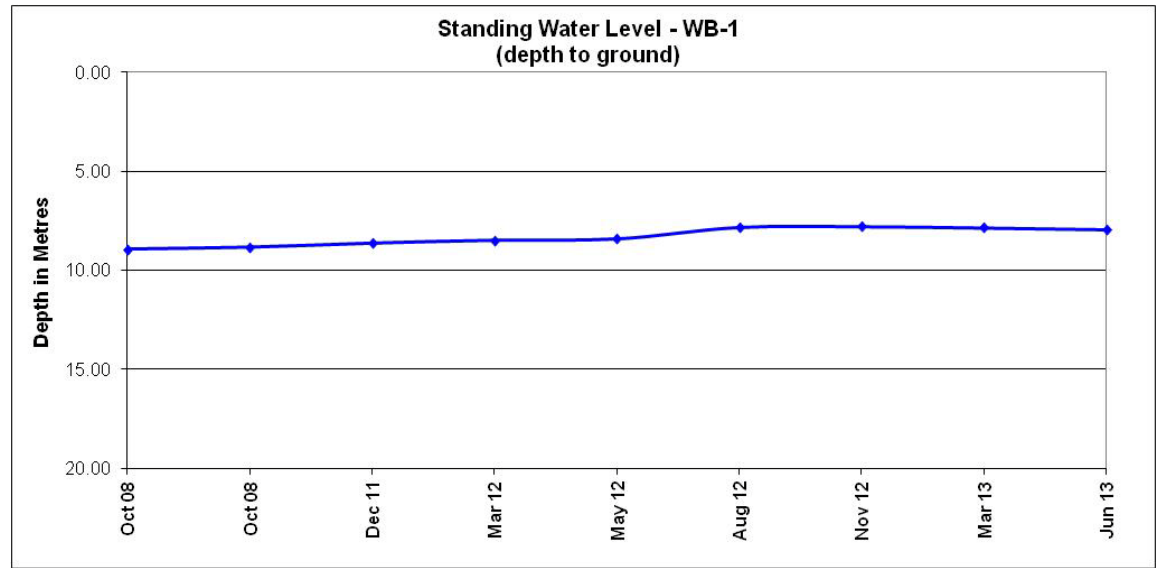
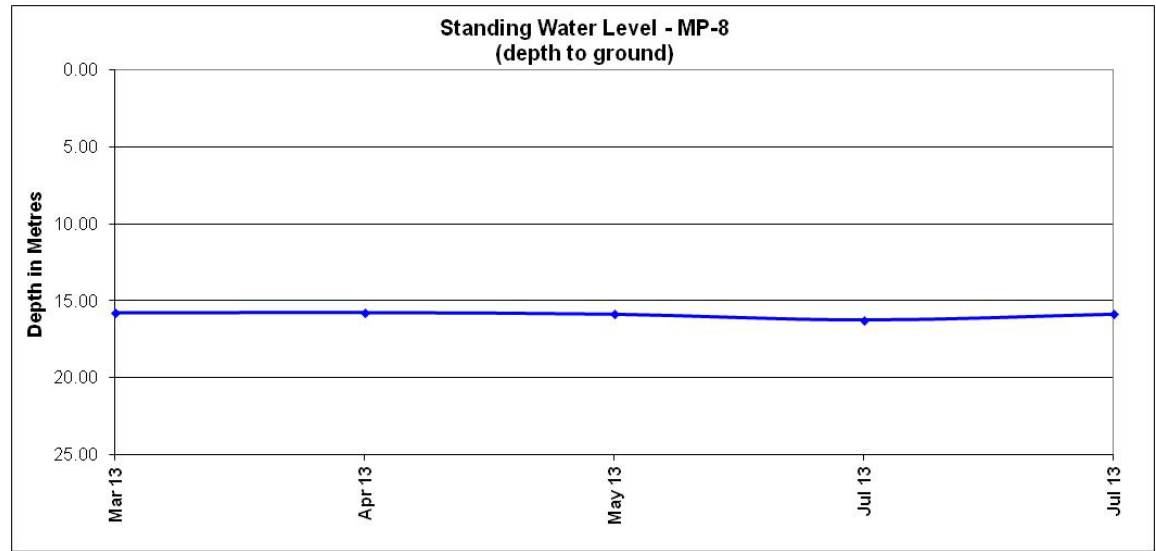
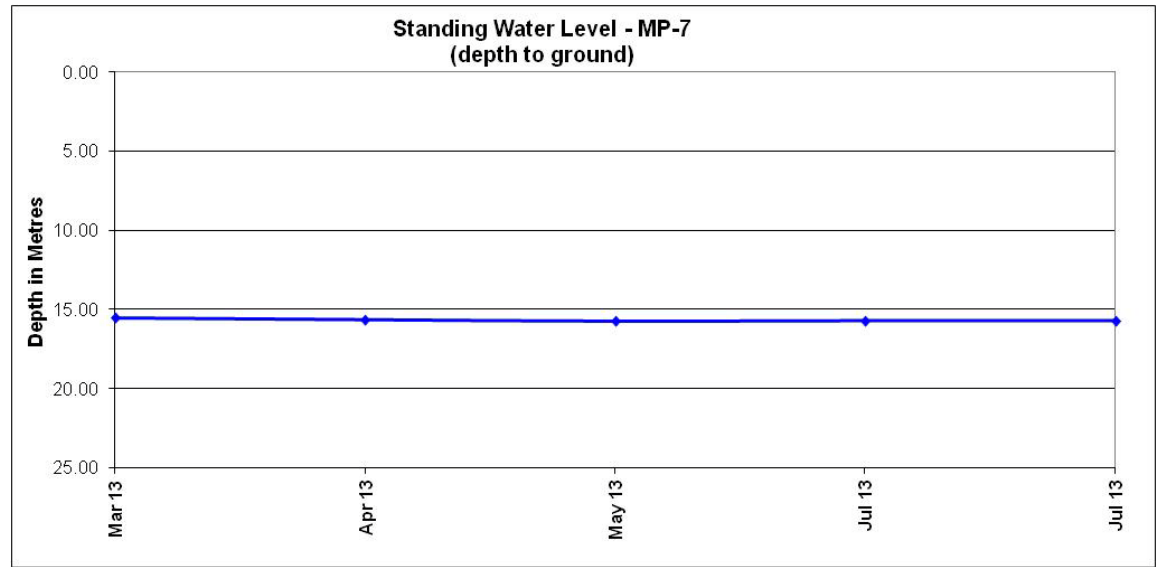
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
	26 November 12	Dry		
	12 March 13	Dry		
	12 June 13	Dry		
MP5	23 May 12	54.41	Insufficient water to sample	
	28 August 12	55.43	Insufficient water to sample	
	26 November 12	54.95	Insufficient water to sample	
	12 March 13	Dry	Insufficient water to sample	
	12 June 13	Dry	Insufficient water to sample	
MP5a	12 March 13	63.80	7.33	2790
	15 April 13	65.78		
	27 May 13	67.11		
	12 June 13	67.03	7.12	2800
	29 July 13	66.10		
MP6	12 March 13	7.91	5.47	4120
	15 April 13	7.99		
	27 May 13	8.12		
	20 June 13	8.11	6.91	3170
	29 July 13	8.13		
MP7	13 March 13	15.50	6.8	3230
	15 April 13	15.64		
	27 May 13	15.76		
	2 July 13	15.72	6.81	3830
	29 July 13	15.72		
MP8	13 March 13	15.80	4.73	1430
	15 April 13	15.79		
	27 May 13	15.90		
	2 July 13	16.28	6.7	4200
	29 July 13	15.90		
WB1	24 May 12	8.52	8.03	1537
	27 August 12	7.82	No sample available	
	26 November 12	7.78	No sample available	
	12 March 13	7.85	No sample available	
	10 June 13	7.94		
WB2	23 May 12	16.14	8.56	2610
	27 August 12	16.32	7.57	2240
	26 November 12	16.6	7.85	2560
	12 March 13	16.02	7.89	2570
	12 June 13	17.88	7.28	2620
WB3	23 May 12	8.49	No pump	
	27 August 12	8.32	No pump	
	26 November 12	8.2	No pump	
	13 March 13	7.98	No pump	
	20 June 13	7.95	Pump over bore	
WB4	24 May 12	Unable to dip	7.91	3580
	28 August 12	Unable to dip	No sample	
	26 November 12	Unable to dip	No sample	

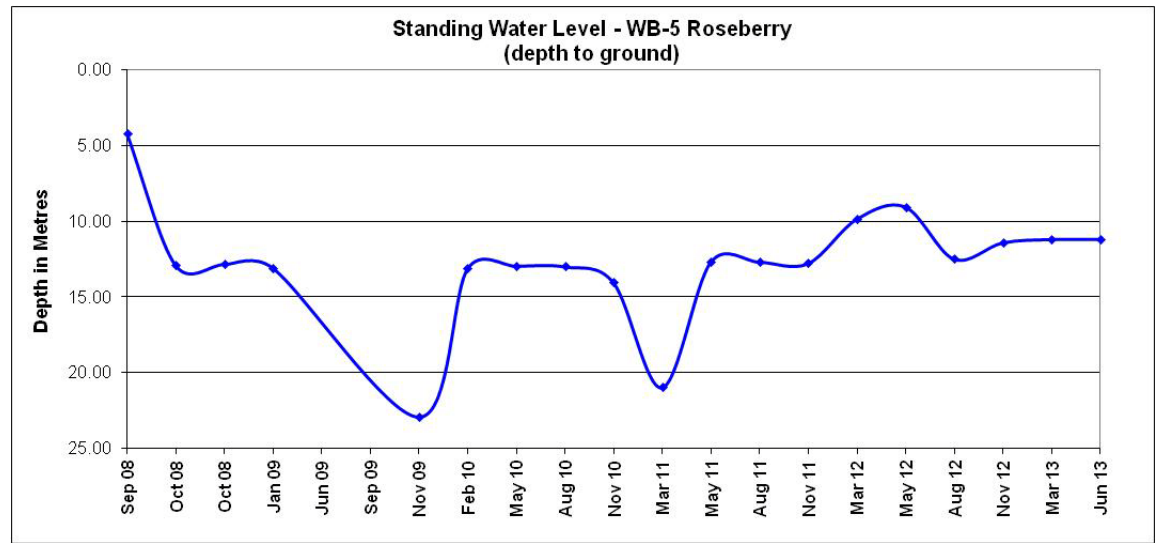
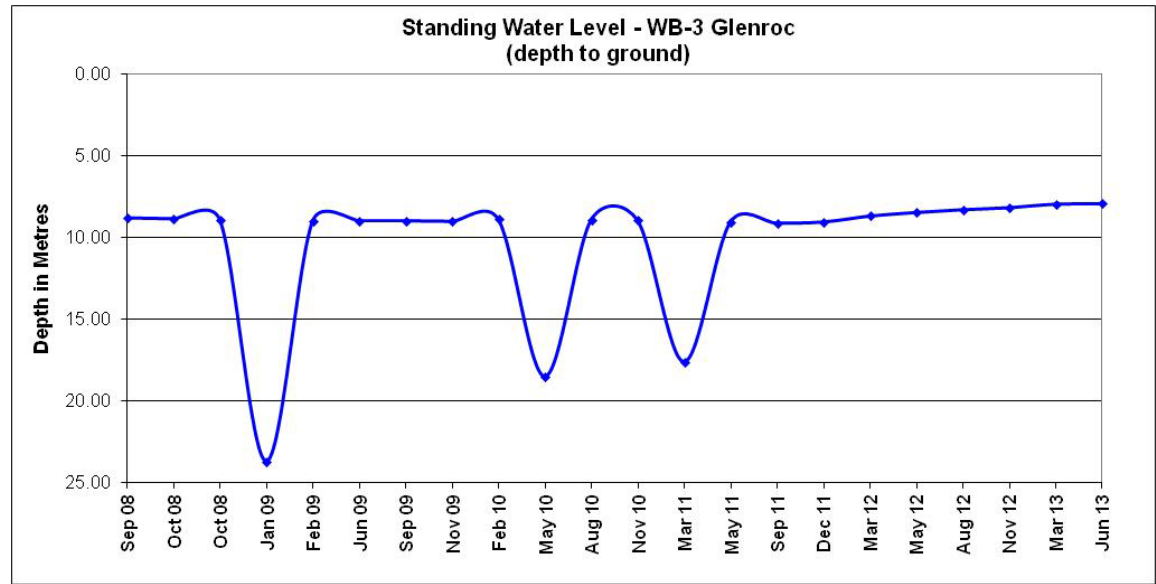
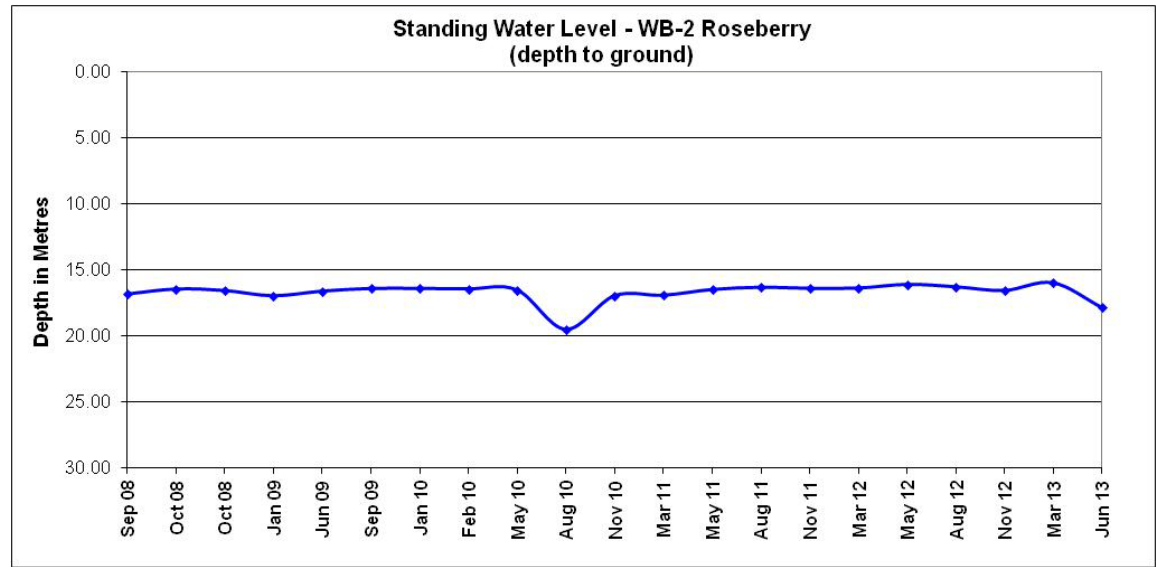
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
	13 March 13	Unable to dip	No sample	
	12 June 13	Unable to dip	No sample	
WB5	23 May 12	9.06	8.17	6360
	27 August 12	12.5	8.19	6930
	26 November 12	11.42	7.68	6740
	12 March 13	11.2	7.7	6890
	12 June 13	11.2	7.86	6930
WB6	23 May 12	21.06	Bore equipped	
	27 August 12	20.62	Bore equipped	
	26 November 12	20.42	Bore equipped	
	12 March 13	20.43	Bore equipped	
	12 June 13	20.43	Bore equipped	
WB7	23 May 12	4.60	8.11	3070
	27 August 12	27.43	7.4	2840
	26 November 12	18.87	7.18	2620
	12 March 13	9.77	No access	
	12 June 13	9.83	No access	
WB8	24 May 12	31.03	Unable to Sample – pump over bore	
	28 August 12	31.43	Unable to Sample – pump over bore	
	27 November 12	31.31	Unable to Sample – pump over bore	
	13 March 13	31.19	Unable to Sample – pump over bore	
	20 June 13	30.97	Unable to Sample – pump over bore	
WB9	23 May 12	24.21	8.15	902
	27 August 12	23.99	8.27	1010
	26 November 12	23.86	8.14	995
	12 March 13	24.85	No access	
	10 June 13	24.06	No access	
WB10	24 May 12	13.95	6.68	1902
	4 September 12	14.03	6.92	1870
	13 December 12	14.76	6.94	1696
	13 March 13	14.13	6.97	2020
	10 July 13	14.08	6.95	1883
WB11	24 May 12	16.5	Pump over bore	
	4 September 12	16.17	Pump over bore	
	13 December 12	Pump over bore		
	13 March 13	Pump over bore		
	10 July 13	15.32	7.75	1241
WB12	24 May 12	13.14	7.19	2150
	4 September 12	13.08	7.3	2150
	13 December 12	13.13	7.61	1907
	13 March 13	12.98	7.73	1800
	10 July 13	13.16	7.95	16.92
WB13	13 March 13	36.40	6.91	3410
	10 July 13	33.42	6.77	3550
Production	23 May 12	Bore Equipped	7.51	3330

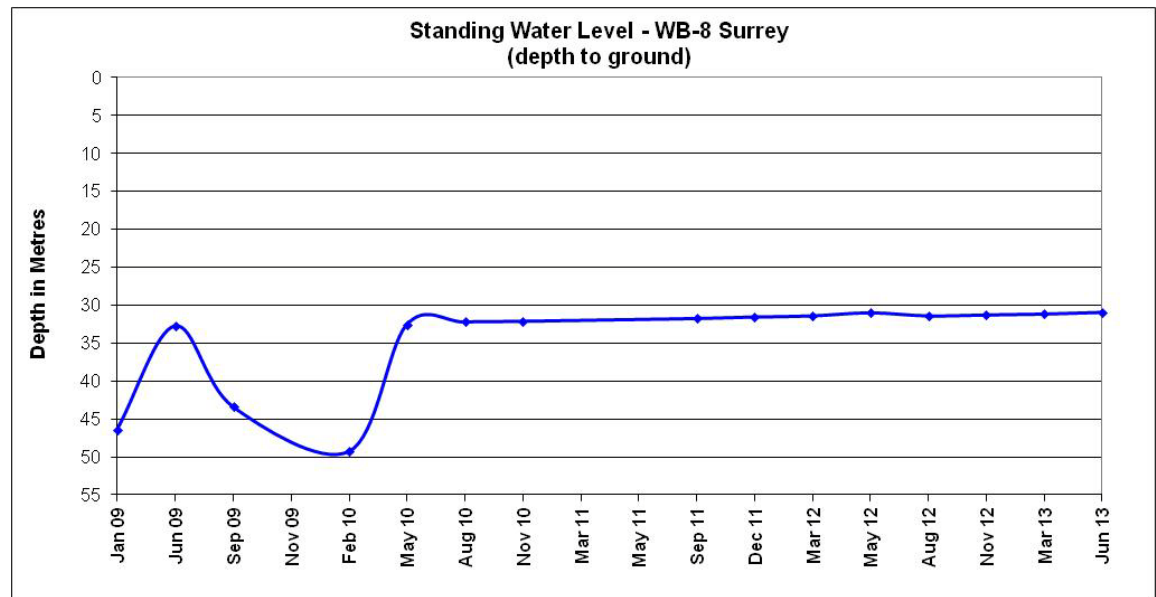
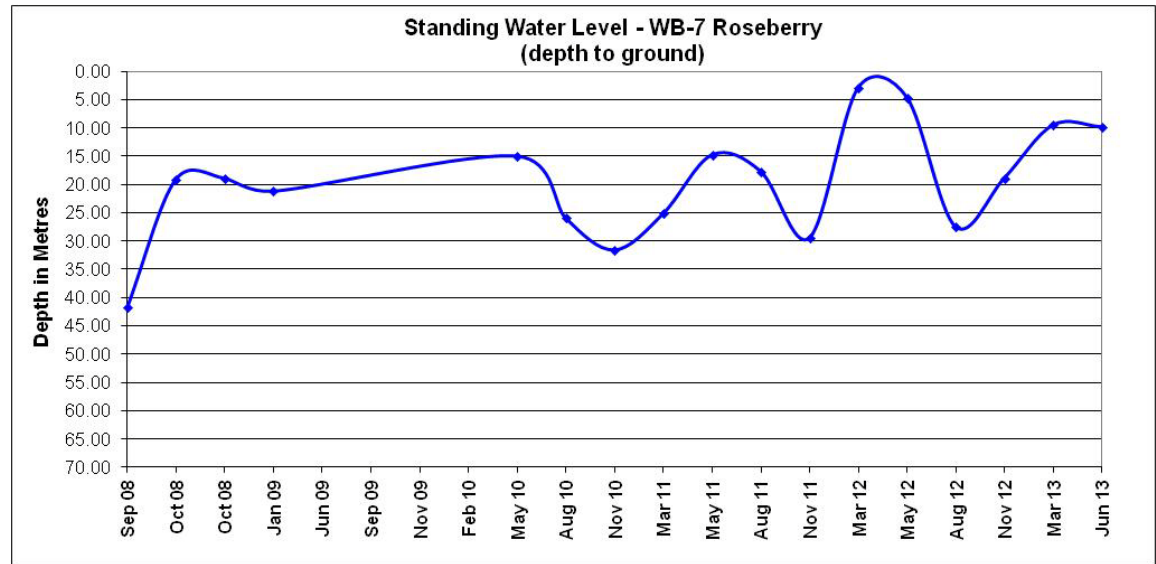
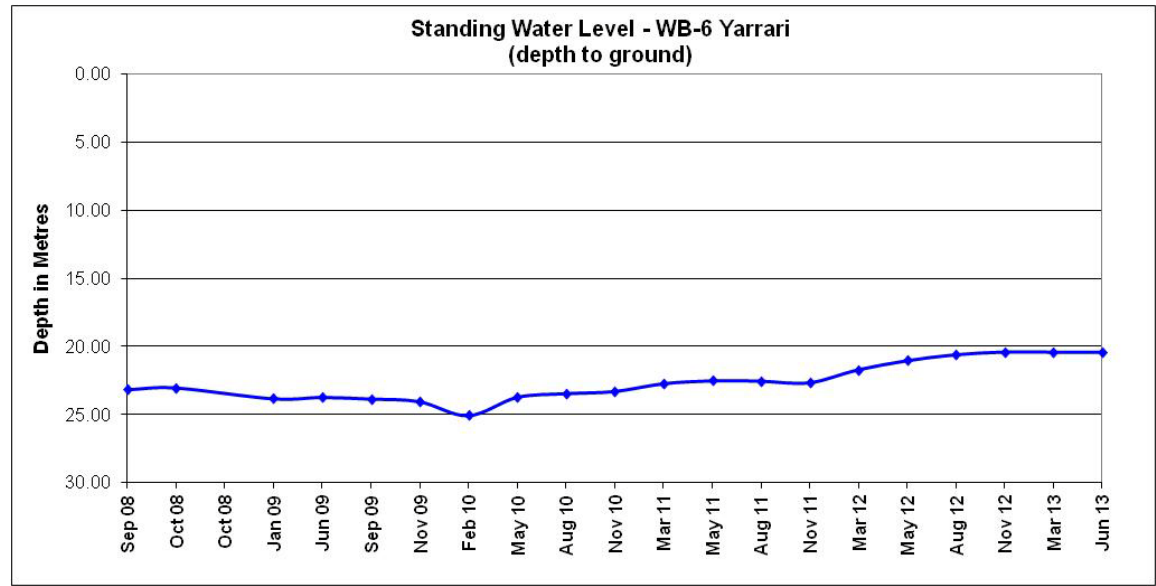
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
Bore	27 August 2012	Bore Equipped	7.11	3390
	26 November 12	Bore Equipped	7.05	3360
	12 March 13	Bore Equipped	7.04	3420
	12 June 13	Bore Equipped	7.23	3510
Surrey No.2	24 May 2012	34.59	7.2	2790
	28 August 2012	34.29	7.15	3090
	27 November 2012	34.94	7.34	3100
	13 March 13	35.69	7.44	3250
	20 June 13	34.07	7.35	3310

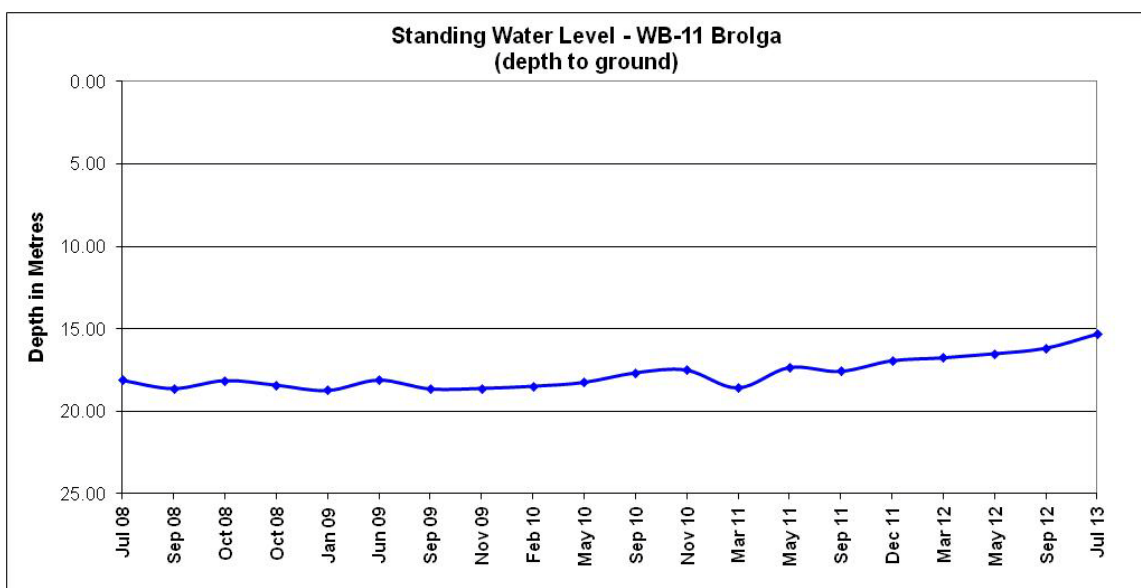
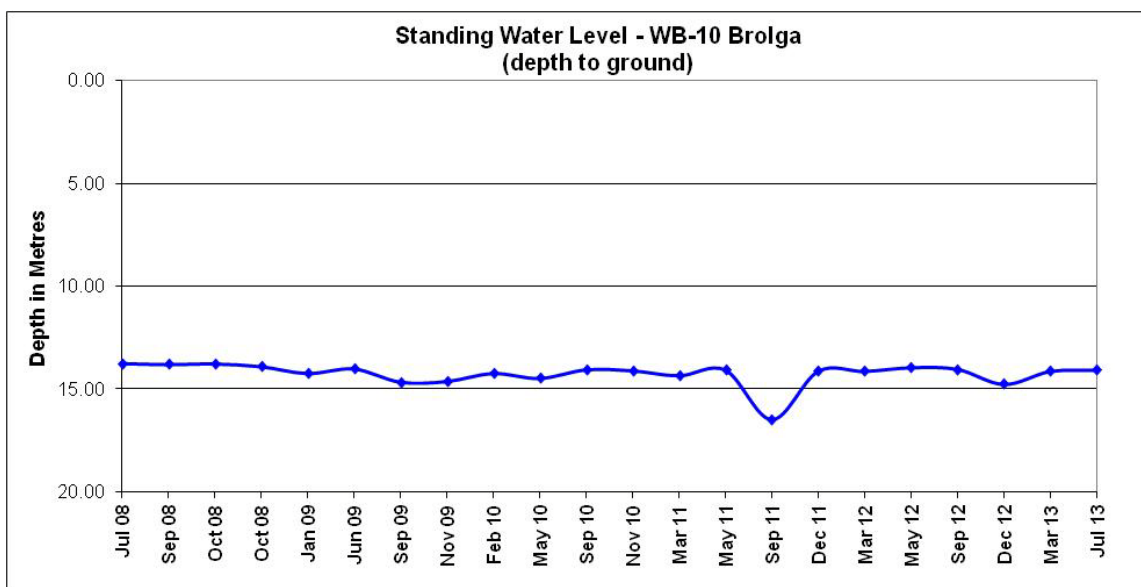
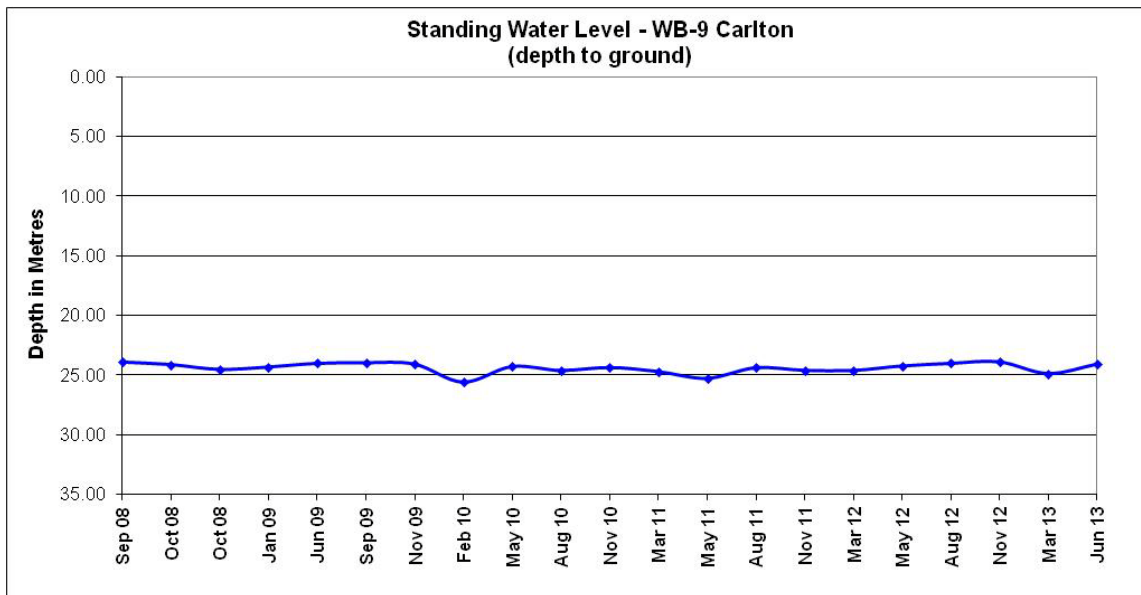


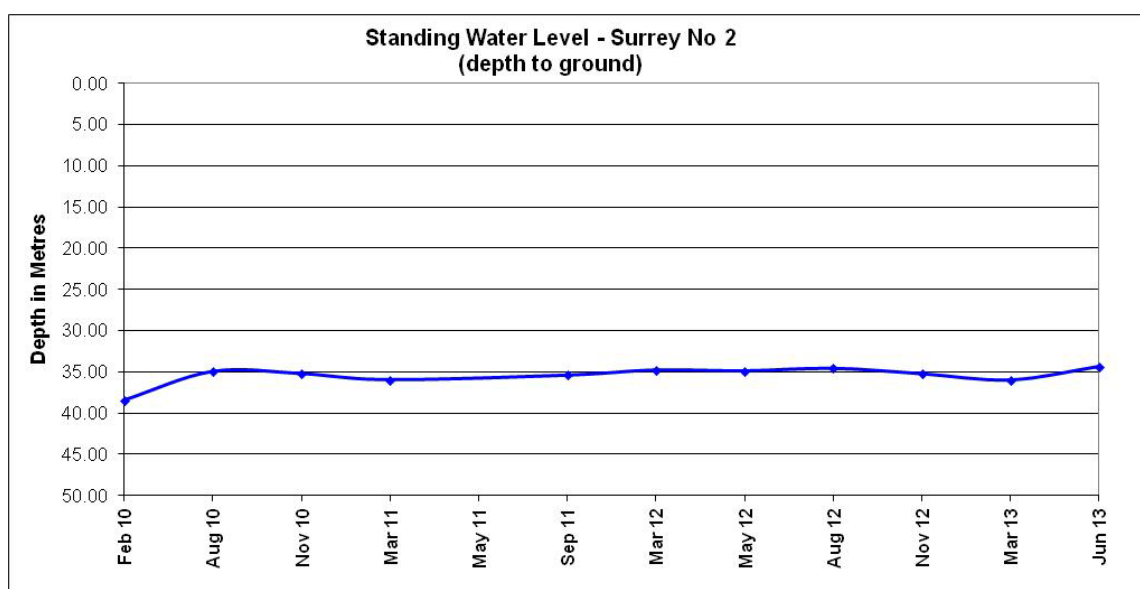
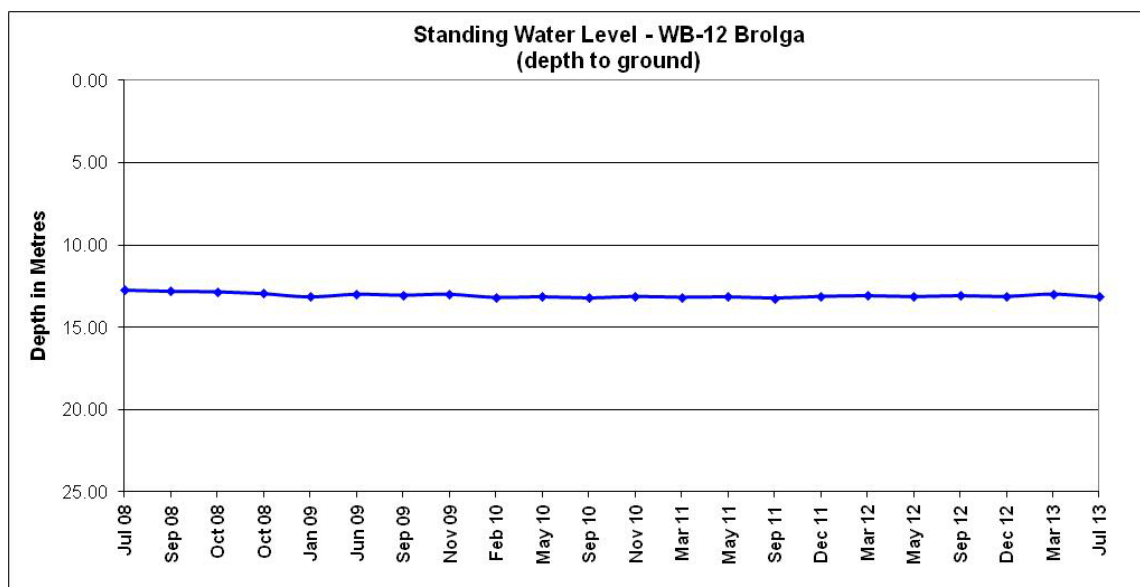












Standing water levels have remained relatively consistent since the last CCC meeting. MP2a which is located to the east of the active pit has shown a drop in standing water level during July monitoring. This monitoring bore is in close proximity to WB7, which also has a fluctuating trend. As it is a relatively new monitoring bore, its standing water level will be monitored over time to determine any longer term trends. WB2 has also shown a minor drop in standing water level during June, due to the bore being equipped with an operating windmill.

Surface Water

Two wet weather discharges occurred during the period, from licensed discharge points 11 and 12 on the 28th June following 47.4mm of rain in the five days leading up to the discharge. All water quality parameters were met other than Total Suspended Solids (TSS) where 164 mg/L and 751 mg/L were recorded at licensed discharge points 11 and 12, respectively. Due to the rainfall exceeding the 90thile storm event criteria as stated in the site's Environmental Protection Licence, the TSS limit of 50 mg/L is not applicable.

During the period, approximately 24.1 ML of water was used on site for dust suppression purposes.

Complaints

No complaints were received during the reporting period.

Rehabilitation

The recently seeded 11 hectares of the northern emplacement has shown excellent germination and growth, as shown in Plate 1. Extensive topsoil spreading over an area of 7.7 hectares was also carried out on this emplacement during the period. Drainage structures and mounds are to be constructed and seeding is to take place on this topsoiled area during August. Approximately 8,000 trees are scheduled to be planted on designated areas of both the northern and western emplacements during the next three months.



Plate 1 – Progress of seeded area on northern emplacement

Minutes of Rocglen Coal Mine Community Consultative Committee – Meeting #21

Meeting Held: Wednesday 13th November 2013

Venue: The meeting was held at the Rocglen Coal Mine Training Room

Commencement Time: 2:30pm

1. Present and Apologies

Present: Mr Tim Muldoon (TM) (Manager Community Relations – Whitehaven)
Mr John Sturgess (JS) (Independent Chairperson)
Mr Danny Young (DY) (Environmental Manager – Whitehaven)
Mr Jason Conomos (JC) (Operations Manager)
Mr Hans Allgayer (HA) (Gunnedah Shire Council Representative)
Mrs Jill Johnson (JJ) (Environmental Officer – Whitehaven)

Apologies: Mrs Pam Burns (PB) (Community Representative)

No advice: Mr Rod Barnes (RB) (Community Representative)

Apologies moved by TM and HA

2. Previous Minutes

Minutes accepted as a true record on the motion of JC and HA.

3. Business Arising from Previous Minutes

3.1. DY advised that fencing for stock exclusion from the biobank area has commenced along the Yarrari/Belah and Roseberry boundary. 2.3km has already been replaced with the final 400m to be completed in the next couple of weeks.

3.2. JJ said the Wean Road upgrade was due to be completed the week of the CCC meeting. TM said the upgrade will then require sign off from Gunnedah Shire Council.

3.3. JJ said that the ads for new CCC representatives were in the Namoi Valley Independent on Thursday 7th and Tuesday 12th November 2013. Applications close at the end of November. The issue will be whether or not we get any applications.

TM suggested we recommend to the Department that multiple new members be appointed on the basis of issues with attendance of some existing members.

3.4. DY said a grab sample had been collected by ALS of RB's water tank. DY has sent a letter to RB advising of the water quality compared to the Australian

Drinking Water Quality Guidelines. The only issues noted were pH and E. Coli which have nothing to do with operations. DY said the letter suggested the RB could seek independent advice on the results provided. DY said the automatic first flush diverter is still to be organised.

4. Mine Progress Report

JC advised in the 3 months until the end of October that just over 2 million BCM of overburden was moved and 326,341 tonnes of coal was mined. This is an increase in overburden and a decrease in coal as a result of eastern highwall issues.

5. Review of Environmental Performance

DY presented the environmental monitoring results which are attached in the environmental monitoring report, and include any complaints lodged over the reporting period.

DY advised that the out of pit emplacement is to its furthest extent.

TM asked about onsite water storage. JC said there is still approximately 100ML in the pit and approximately 1ML is used each day for dust suppression.

6. General Business

DY advised that a newsletter had recently been issued to all members of the CCC, surrounding landholders, Gunnedah Shire Council and Gunnedah Chamber of Commerce.

TM advised that the Toll coal haulage contract expires at the end of January 2013 and Bis has been awarded the new contract. He also advised that the Orica blasting contract expires at the end of the year and Whitehaven will take on blasting responsibilities in house.

7. Next Meeting

The next meeting of the Rocglen CCC is scheduled for Wednesday 12th February 2014 at 3:00pm.

Meeting closed 3:05pm with site tour following meeting.

J Sturgess
Chairman

Rocglen Coal Mine Community Consultative Committee Meeting #21

Environmental Monitoring Report August 2013 – October 2013

Noise Monitoring

Attended noise monitoring was undertaken on the 24th, 25th, 26th and 27th of September 2013, in accordance with the Rocglen Noise Monitoring Program and Environmental Protection Licence Guidelines (90 minutes during the day, 30 minutes during the evening and 60 minutes during the night and occur for 3 consecutive operating days) with results outlined below:

Surrey

RCM Operational Noise Monitoring Results – 24 th , 25 th , 26 th and 27 th of September 2013				
Date	Time	dB(A), Leq (15 min)	Wind speed/direction	Identified Noise Sources as dB(A) Leq (15 min)
24 th September	10:05 pm	26	1.5 / 91	Insects (26), RCM inaudible
25 th September	7:14 am	44	1.0 / 164	Birds & insects (44), RCM (34)
25 th September	9:29 pm	30	2.4 / 32	RCM (28) , wind (24)
25 th September	11:25 pm	32	1.5 / 37	RCM (31) , insects (24)
26 th September	7:10 am	44	1.0 / 255	Birds & insects (44), RCM (33)
26 th September	8:48 pm	30	3.3 / 174	Wind (29), insects (20), RCM inaudible
26 th September	10:06 pm	31	0.2 / 231	Wind (31), RCM inaudible
27 th September	7:07 am	41	0.8 / 280	Birds (41), cattle (30), RCM inaudible
27 th September	6:03 pm	44	0.7 / 161	Cattle (42), insects (40), RCM inaudible

Retreat

RCM Operational Noise Monitoring Results – 24 th , 25 th , 26 th and 27 th of September 2013				
Date	Time	dB(A), Leq (15 min)	Wind speed/direction	Identified Noise Sources as dB(A) Leq (15 min)
24 th September	11:16 pm	29	1.6 / 65	RCM (29) , insects (18)
25 th September	8:48 am	41	3.1 / 69	Birds & insects (41), RCM inaudible
25 th September	8:44 pm	27	1.8 / 15	Insects (27), RCM inaudible
25 th September	10:14 pm	30	2.1 / 21	Birds (29), RCM (22)
26 th September	8:50 am	35	2.5 / 305	Birds & insects (35), roadwork (21), RCM inaudible
26 th September	9:20 pm	28	2.6 / 174	Wind (25), insects (23), RCM (22)
26 th September	10:14 pm	31	1.9 / 43	Wind (31), RCM inaudible
27 th September	8:49 am	31	2.3 / 183	Birds & insects (31), RCM inaudible
27 th September	6:43 pm	29	0.9 / 23	Birds & insects (29), RCM inaudible

The results show that, under the operating and meteorological conditions at the time of monitoring, the mine noise did not exceed the operational noise criterion at any monitoring location or at any time.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) L1 (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 L1 (1 min) noise from the mine did not exceed 45 dB(A) at both monitoring locations, as shown below:

RCM Sleep Disturbance Monitoring Results				
Date	Location	Time	dB(A),L1 (1 min)	Wind speed/ direction
24 th September	Surrey	10:05 pm	Inaudible	1.5/ 91
25 th September	Surrey	11:25 pm	36	1.5 / 37
26 th September	Surrey	10:06 am	Inaudible	0.2 / 231
24 th September	Retreat	11:16 am	37	1.6 / 65
25 th September	Retreat	10:14 pm	25	2.1 / 21
26 th September	Retreat	10:14 pm	Inaudible	1.9 / 43

Rocglen's real time noise monitor is currently located at the "Penryn" property. The monitor's alarm system notifies operations when noise levels approach compliance limits and allows for the opportunity to adjust operations accordingly. Currently, in-pit dumping is prioritised during night operations to reduce the likelihood of operational noise impacts.

Blast Monitoring

Since the first blast there have been 171 blasts (until the end of October). All blasts during the monitoring period were compliant within the limits of 120dB and 10mm/s.

Air Quality

Deposited Dust Results

The deposited dust results (g/m²/month) obtained for the site over the last 12 months are as follows:

Air Quality (Dust Deposition) Results							
Month	BD3 - Belah	BD4 - Surrey	BD5 - Stratford	BD6 - Roseberry	BD7 - Roseglass	BD8 - Yarrowonga	BD2-a - Penryn
November 2012	1.0	1.5	0.8	0.4	0.5	1.5	-
December 2012	1.6	1.3	0.8	2.0	1.8	5.3	1.6
January 2013	1.4	2.5	1.2	1.1	1.8	2.3	2.4
February 2013	0.7	0.7	1.1	0.5	0.7	1.7	0.7
March 2013	0.7	1.6	1.6	0.3	0.2	1.1	0.4
April 2013	0.3	0.5	3.6	0.8	0.7	1.3	-
May 2013	0.4	1.3	0.9	0.8	0.6	1.3	0.9
June 2013	0.4	0.4	0.4	0.4	0.5	0.7	0.3
July 2013	0.5	0.3	0.3	0.2	0.2	0.5	0.3
August 2013	0.1	0.4	0.2	0.1	0.2	0.3	0.2
September 2013	0.5	0.7	0.6	0.8	0.4	0.9	0.7
October 2013	1.1	0.2	1.3	1.1	2.4	1.7	0.8
Annual Average	0.7	1.0	1.1	0.7	0.8	1.6	0.8

Results confirm compliance at all monitors throughout the reporting period. The annual average at all sites remains well below the concentration threshold of $4\text{g/m}^2/\text{month}$.

PM₁₀ Results

The annual averages for PM₁₀ levels up until the end of September 2013 remain below the annual average limit of $30\mu\text{g/m}^3$, as follows:

Costa Vale: $15.27\mu\text{g/m}^3$

Roseberry: $11.64\mu\text{g/m}^3$

The 24hr criterion was not breached during the reporting period at either monitor. The real time PM₁₀ monitor at “Roseberry” is currently operating to send alarms to operations in the event that PM₁₀ levels approach compliance limits.

Water Monitoring

Ground Water

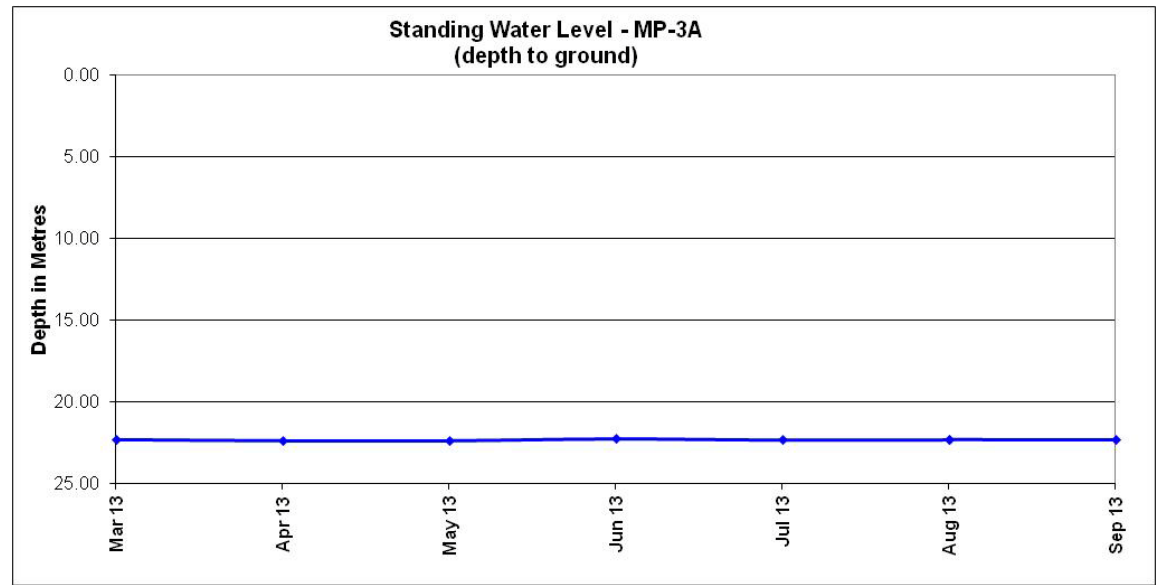
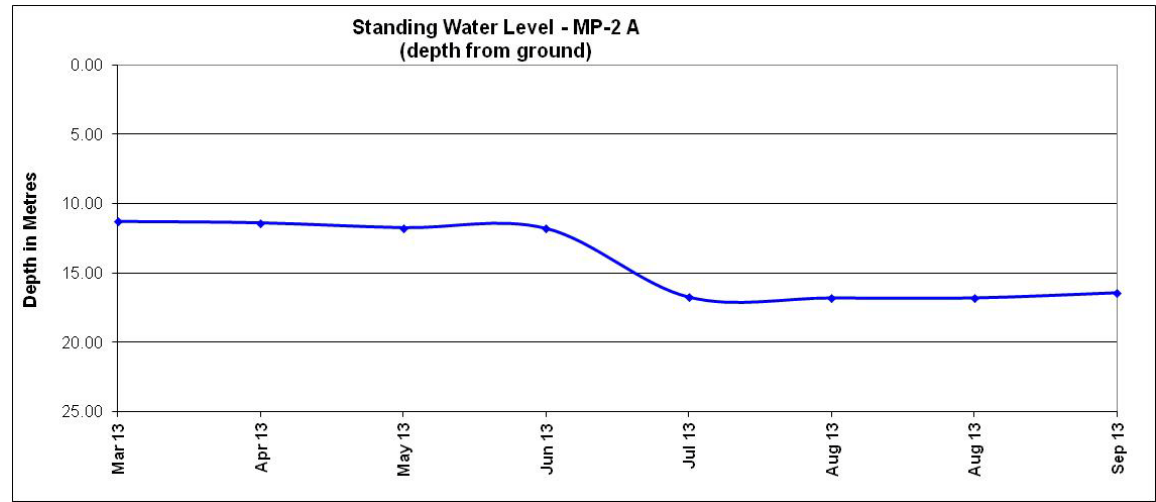
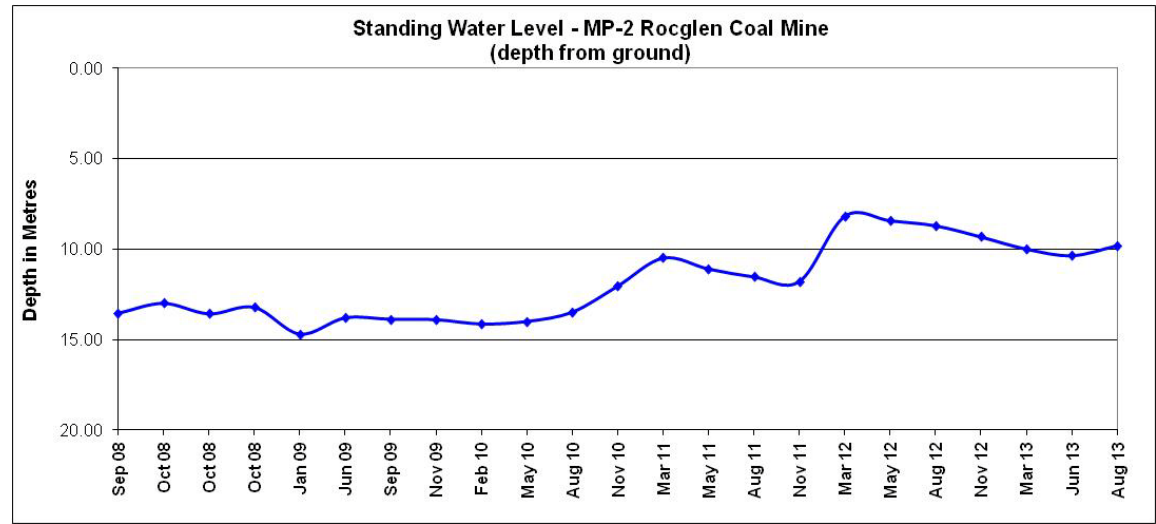
Groundwater monitoring data for the last 12 months is presented in the following table. Standing Water Level (SWL) graphs of bores with sufficient data sets are also provided.

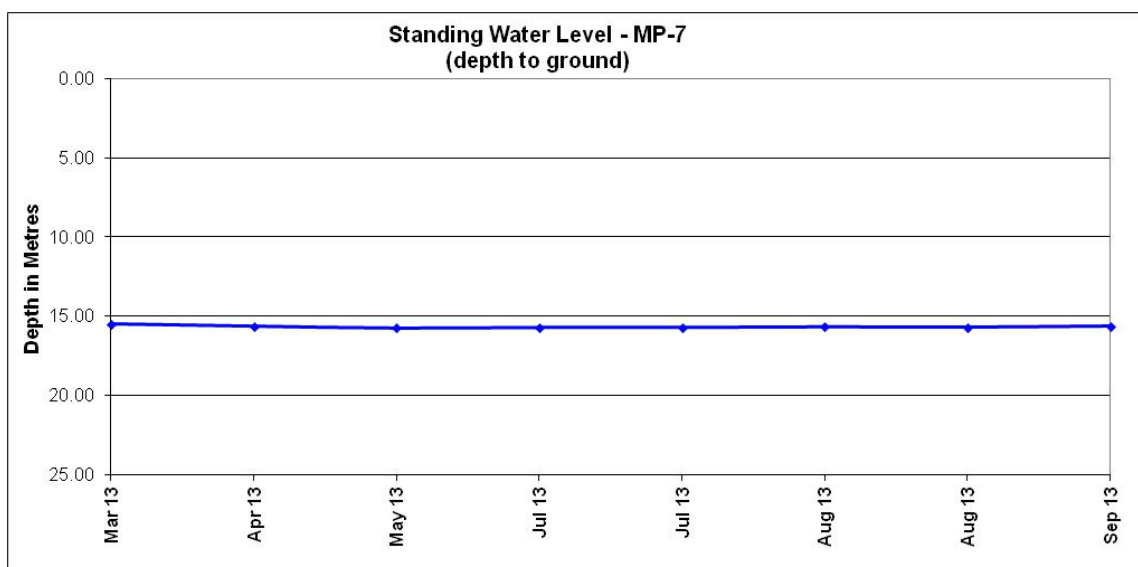
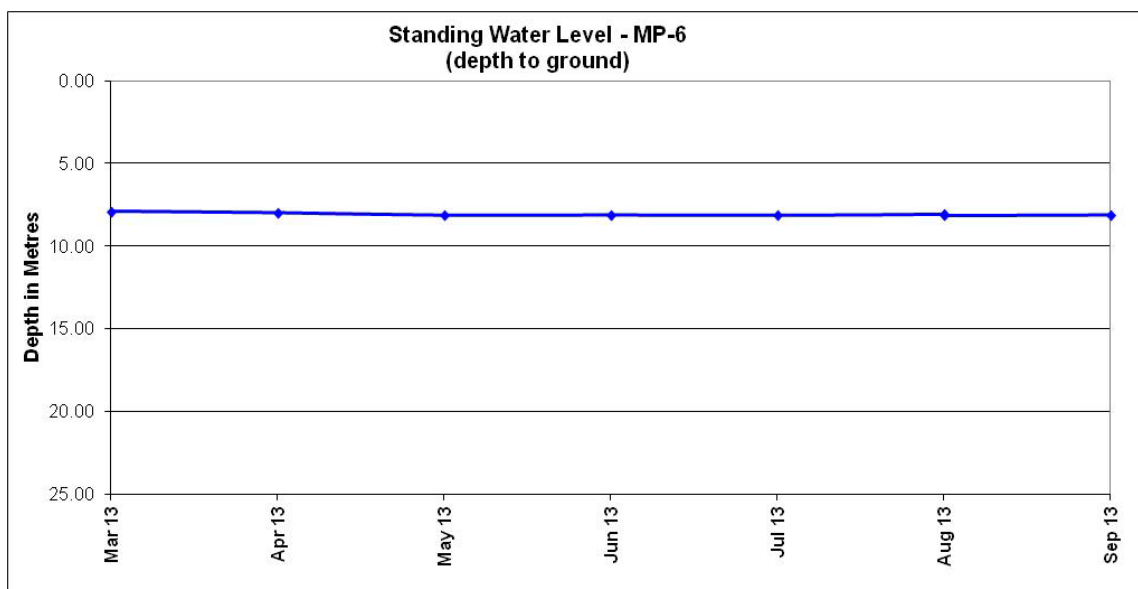
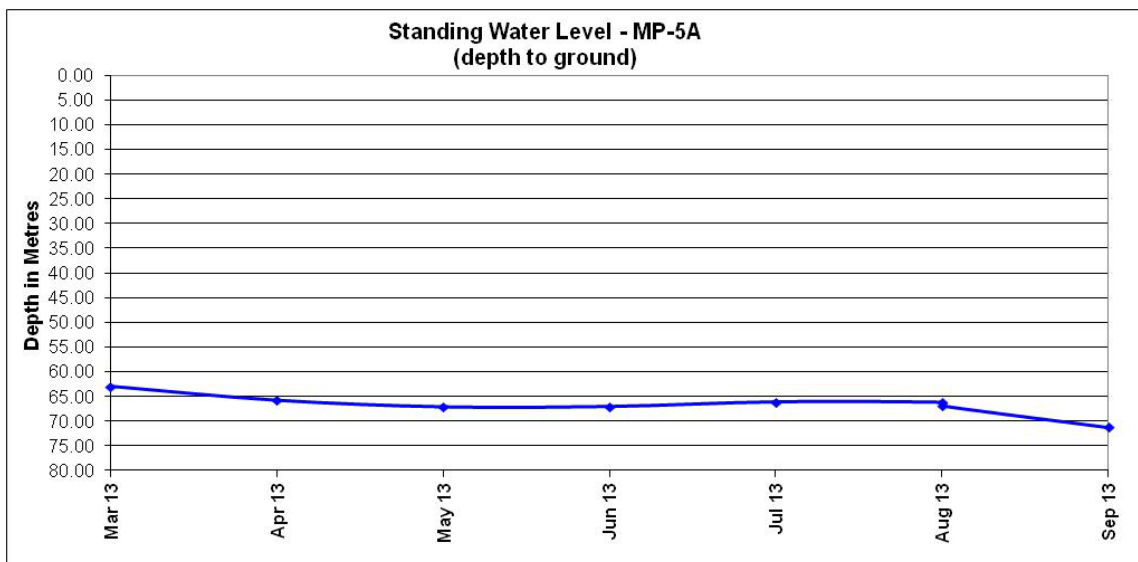
Site	Date	SWL (m)	pH	Elect. Conduct $\mu\text{s/cm}$
MP2	23 May 12	8.43	7.32	4170
	27 August 12	8.71	7.16	4670
	26 November 12	9.33	7.07	4530
	12 March 13	10.0	7.29	4620
	20 June 13	10.36	7.12	4710
	28 Aug 13	9.80	7.2	4740
MP2a	12 March 13	11.30	5.32	1340
	15 April 13	11.40		
	27 May 13	11.75		
	20 June 13	11.80	6.53	4490
	29 July 13	16.74		
	23 Aug 13	16.80	5.3	2360
	28 Aug 13	16.80		
	30 Sept 13	16.43		
MP3	23 May 12	Dry		
	27 August 12	Dry		
	26 November 12	Dry		
	12 March 13	18.6	Insufficient water to sample	
	12 June 13	18.25	Insufficient water to sample	
	28 Aug 13	19.07	Insufficient water to sample	
MP3a	12 March 13	22.30	7.48	1280
	15 April 13	22.38		
	27 May 13	22.38		
	12 June 13	22.25	7.79	1225
	29 July 13	22.34		
	23 Aug 13	22.32		
	28 Aug 13	22.9	7.8	1250
	30 Sept 13	22.32		

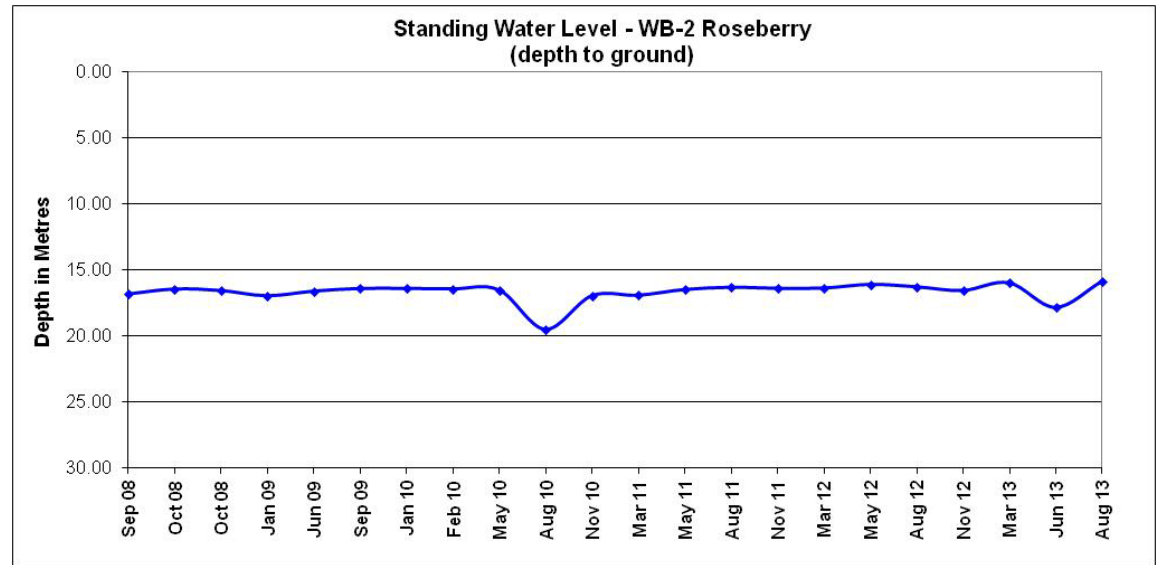
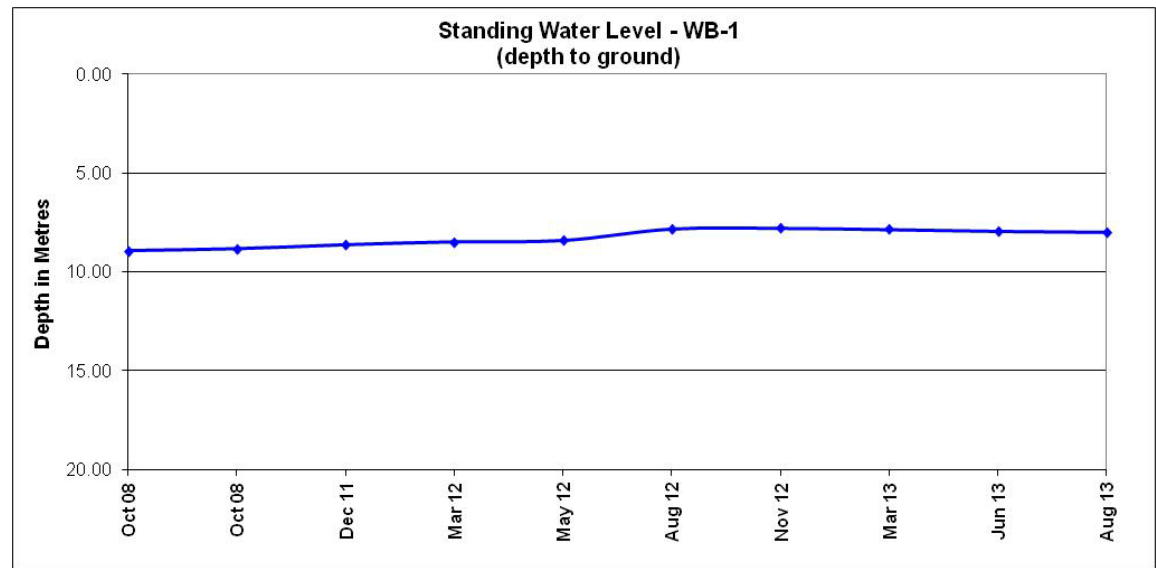
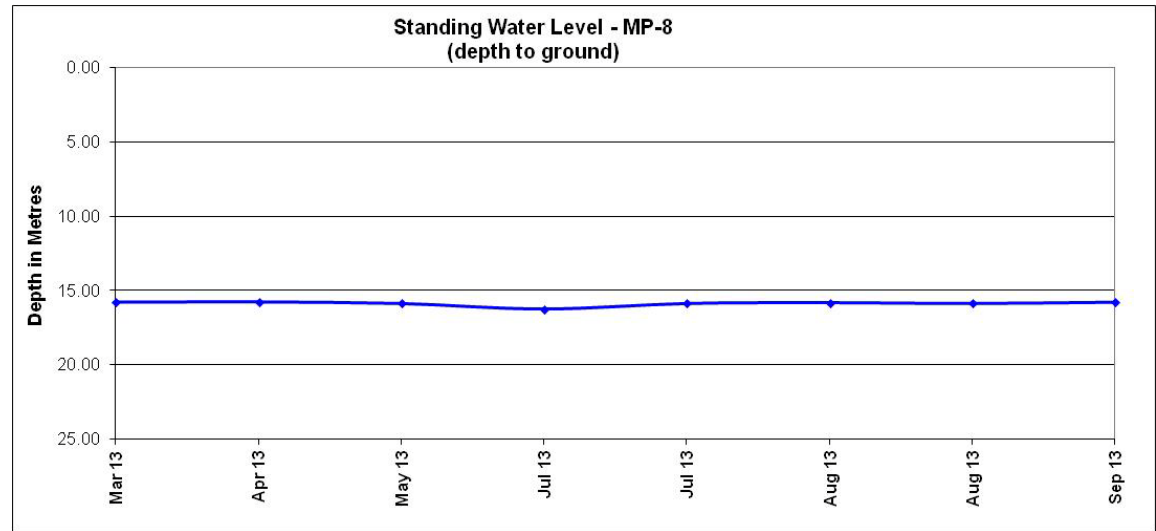
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
MP4	23 May 12	Dry		
	27 August 12	Dry		
	26 November 12	Dry		
	12 March 13	Dry		
	12 June 13	Dry		
	28 Aug 13	Dry		
MP5	23 May 12	54.41	Insufficient water to sample	
	28 August 12	55.43	Insufficient water to sample	
	26 November 12	54.95	Insufficient water to sample	
	12 March 13	Dry	Insufficient water to sample	
	12 June 13	Dry	Insufficient water to sample	
	28 Aug 13	Dry	Insufficient water to sample	
MP5a	12 March 13	63.80	7.33	2790
	15 April 13	65.78		
	27 May 13	67.11		
	12 June 13	67.03	7.12	2800
	29 July 13	66.10		
	23 Aug 13	66.20		
	29 Aug 13	66.90	7	2710
	30 Sept 13	71.25		
MP6	12 March 13	7.91	5.47	4120
	15 April 13	7.99		
	27 May 13	8.12		
	20 June 13	8.11	6.91	3170
	29 July 13	8.13		
	22 Aug 13	8.08		
	29 Aug 13	8.14	7.1	2890
	30 Sept 13	8.11		
MP7	13 March 13	15.50	6.8	3230
	15 April 13	15.64		
	27 May 13	15.76		
	2 July 13	15.72	6.81	3830
	29 July 13	15.72		
	23 Aug 13	15.68		
	28 Aug 13	15.70		
	30 Sept 13	15.63		
MP8	13 March 13	15.80	4.73	1430
	15 April 13	15.79		
	27 May 13	15.90		
	2 July 13	16.28	6.7	4200
	29 July 13	15.90		
	23 Aug 13	15.84		
	29 Aug 13	15.90	5.44	3180
	30 Sept 13	15.81		
WB1	24 May 12	8.52	8.03	1537
	27 August 12	7.82	No sample available	
	26 November 12	7.78	No sample available	
	12 March 13	7.85	No sample available	
	10 June 13	7.94		

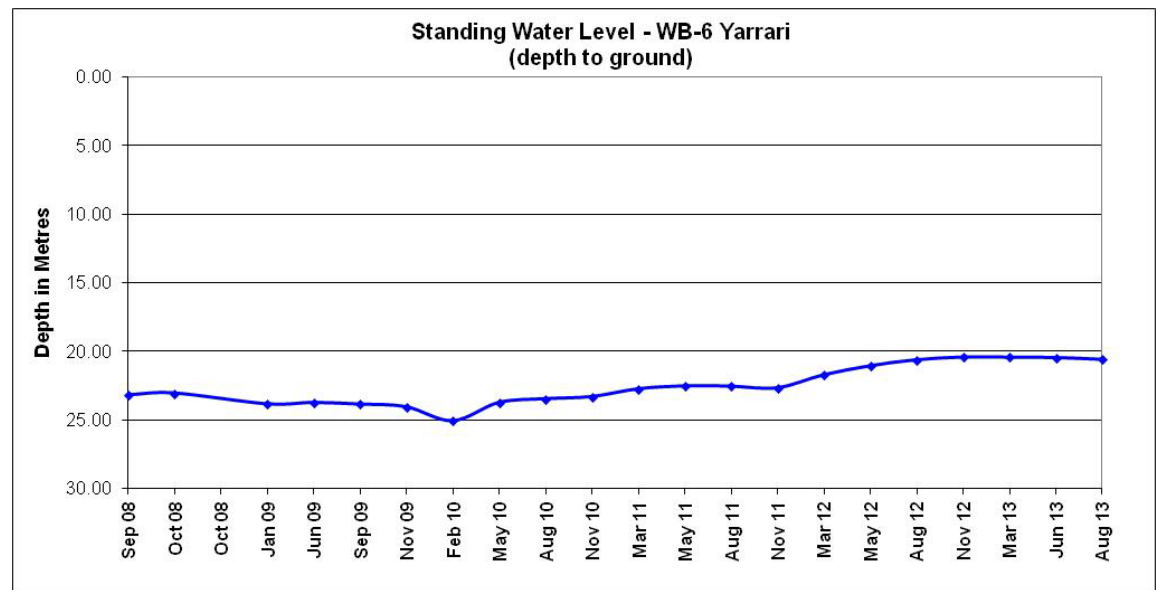
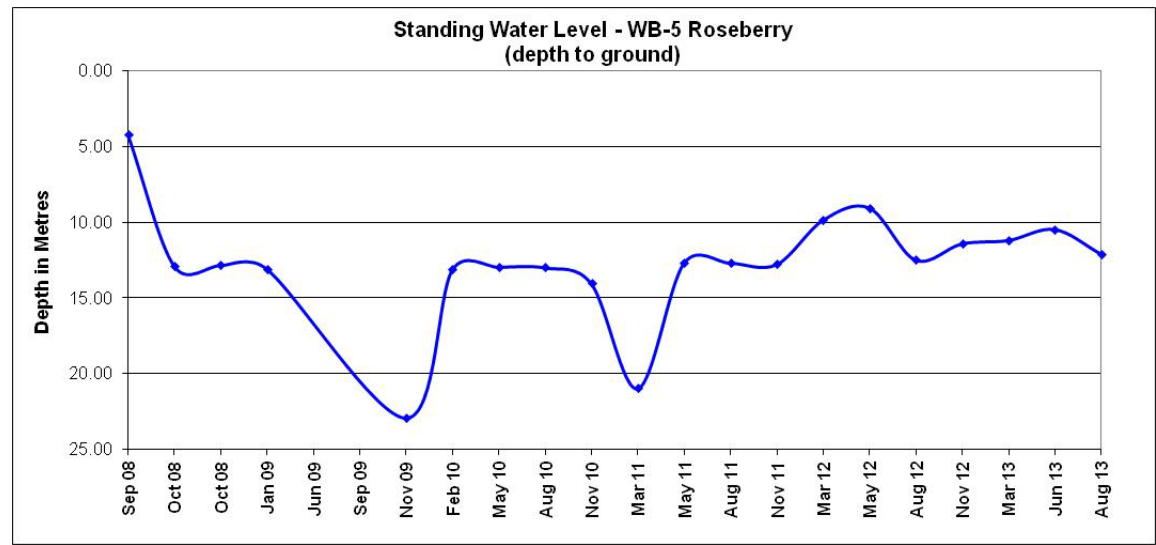
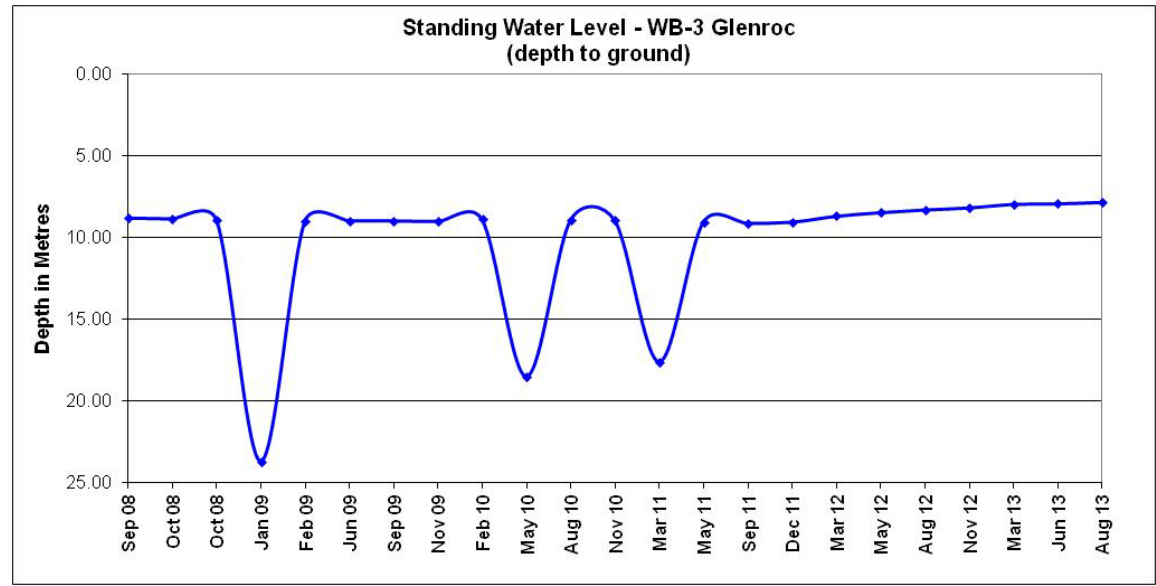
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
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WB2	23 May 12	16.14	8.56	2610
	27 August 12	16.32	7.57	2240
	26 November 12	16.6	7.85	2560
	12 March 13	16.02	7.89	2570
	12 June 13	17.88	7.28	2620
	28 Aug 13	15.92	7.1	2840
WB3	23 May 12	8.49	No pump	
	27 August 12	8.32	No pump	
	26 November 12	8.2	No pump	
	13 March 13	7.98	No pump	
	20 June 13	7.95	Pump over bore	
	30 Aug 13	7.86	Pump over bore	
WB4	24 May 12	Unable to dip	7.91	3580
	28 August 12	Unable to dip	No sample	
	26 November 12	Unable to dip	No sample	
	13 March 13	Unable to dip	No sample	
	12 June 13	Unable to dip	No sample	
	29 Aug 13	Unable to dip	No sample	
WB5	23 May 12	9.06	8.17	6360
	27 August 12	12.5	8.19	6930
	26 November 12	11.42	7.68	6740
	12 March 13	11.2	7.7	6890
	12 June 13	10.47	7.86	6930
	28 Aug 13	12.1	8.2	6910
WB6	23 May 12	21.06	Bore equipped	
	27 August 12	20.62	Bore equipped	
	26 November 12	20.42	Bore equipped	
	12 March 13	20.43	Bore equipped	
	12 June 13	20.46	Bore equipped	
	28 Aug 13	20.59	Bore equipped	
WB7	23 May 12	4.60	8.11	3070
	27 August 12	27.43	7.4	2840
	26 November 12	18.87	7.18	2620
	12 March 13	9.77	No access	
	12 June 13	9.83	No access	
	28 Aug 13	10.15	No access	
WB8	24 May 12	31.03	Unable to Sample – pump over bore	
	28 August 12	31.43	Unable to Sample – pump over bore	
	27 November 12	31.31	Unable to Sample – pump over bore	
	13 March 13	31.19	Unable to Sample – pump over bore	
	20 June 13	30.97	Unable to Sample – pump over bore	
	30 Sept 13	31.19	Unable to Sample – pump over bore	
WB9	23 May 12	24.21	8.15	902
	27 August 12	23.99	8.27	1010
	26 November 12	23.86	8.14	995
	12 March 13	24.85	No access	

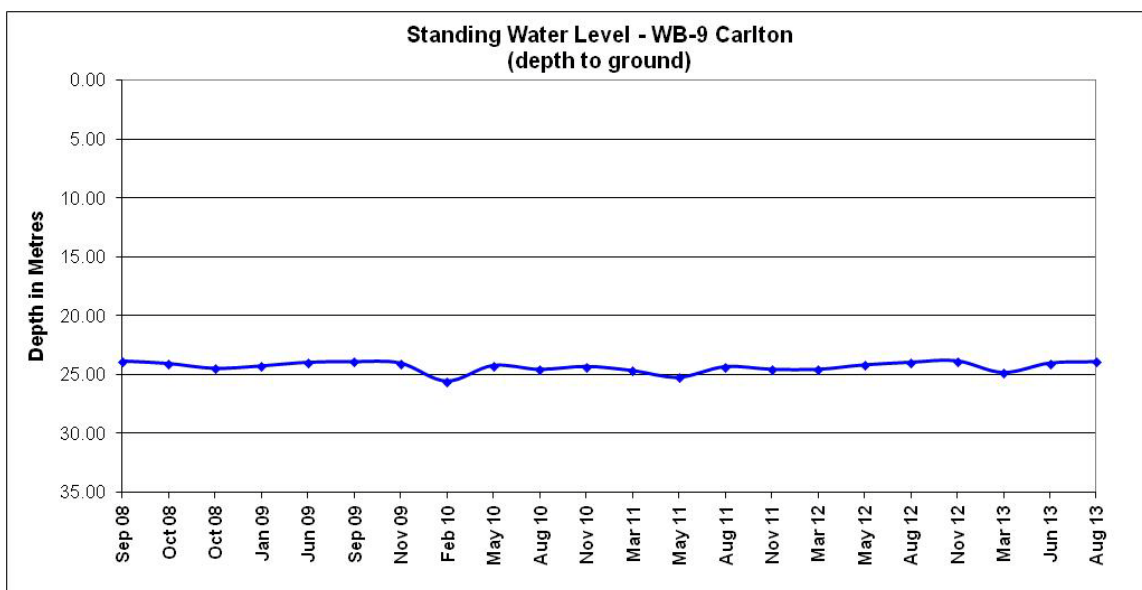
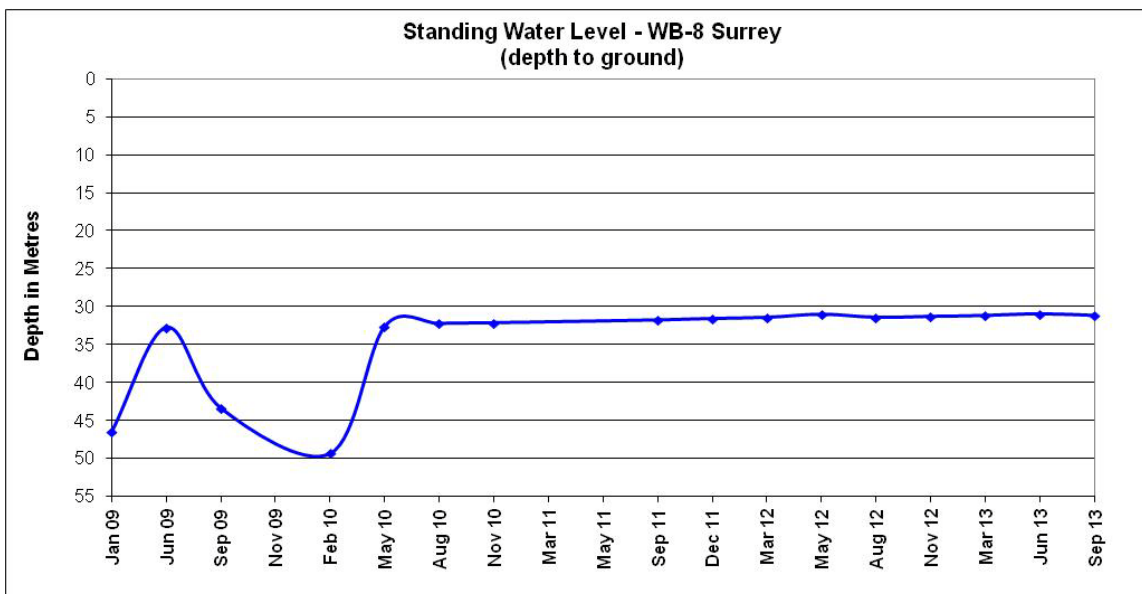
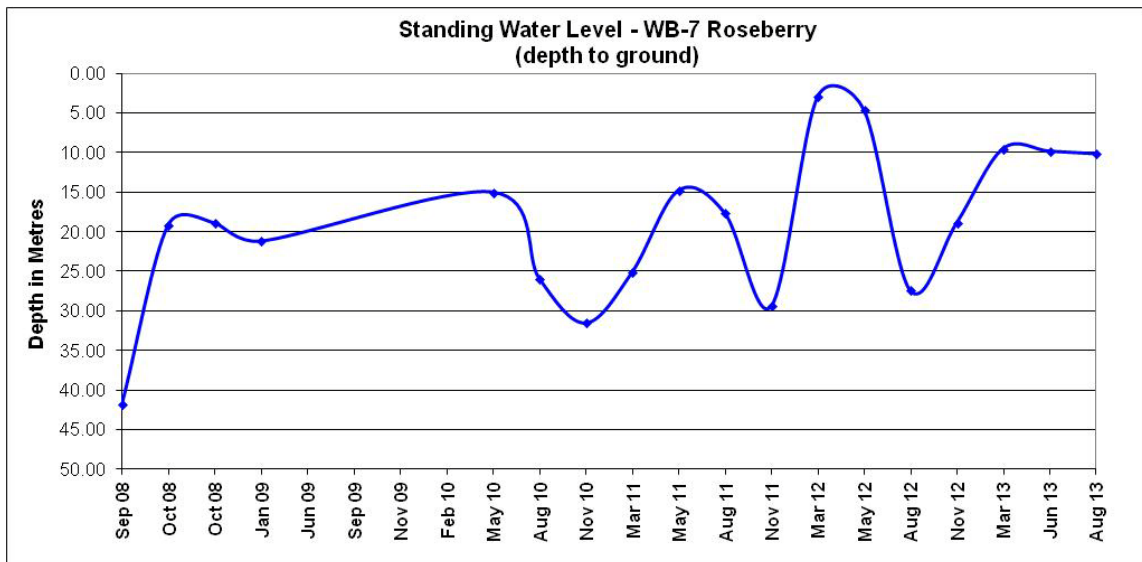
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
	10 June 13	24.06	No access	
	28 Aug 13	23.94	No access	
WB10	24 May 12	13.95	6.68	1902
	4 September 12	14.03	6.92	1870
	13 December 12	14.76	6.94	1696
	13 March 13	14.13	6.97	2020
	10 July 13	14.08	6.95	1883
	30 Aug 13	14.13	6.9	1880
WB11	24 May 12	16.5	Pump over bore	
	4 September 12	16.17	Pump over bore	
	13 December 12	Pump over bore		
	13 March 13	Pump over bore		
	10 July 13	15.32	7.75	1241
	30 Aug 13	16.65	7.6	1120
WB12	24 May 12	13.14	7.19	2150
	4 September 12	13.08	7.3	2150
	13 December 12	13.13	7.61	1907
	13 March 13	12.98	7.73	1800
	10 July 13	13.16	7.95	16.92
	30 Aug 13	13.08	8.1	1690
WB13	13 March 13	36.40	6.91	3410
	10 July 13	33.42	6.77	3550
	28 Aug 13	38.50	6.9	3730
Production Bore	23 May 12	Bore Equipped	7.51	3330
	27 August 2012	Bore Equipped	7.11	3390
	26 November 12	Bore Equipped	7.05	3360
	12 March 13	Bore Equipped	7.04	3420
	12 June 13	Bore Equipped	7.23	3510
	28 Aug 13	Bore Equipped	6.9	3430
Surrey No.2	24 May 2012	34.59	7.2	2790
	28 August 2012	34.29	7.15	3090
	27 November 2012	34.94	7.34	3100
	13 March 13	35.69	7.44	3250
	20 June 13	34.07	7.35	3310
	30 Aug 13	33.29	7.21	3110

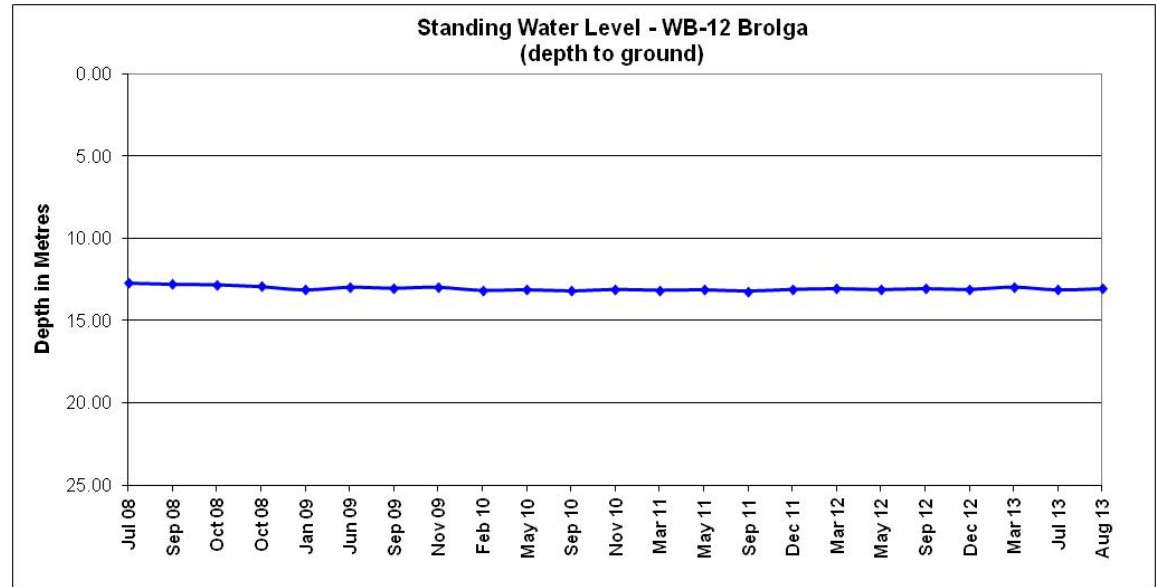
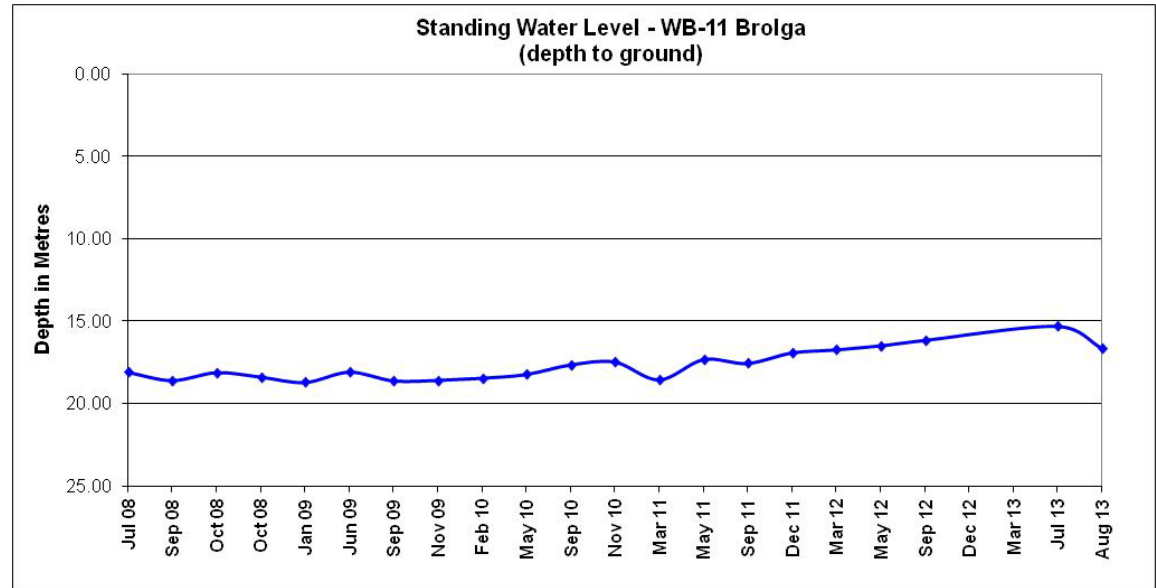
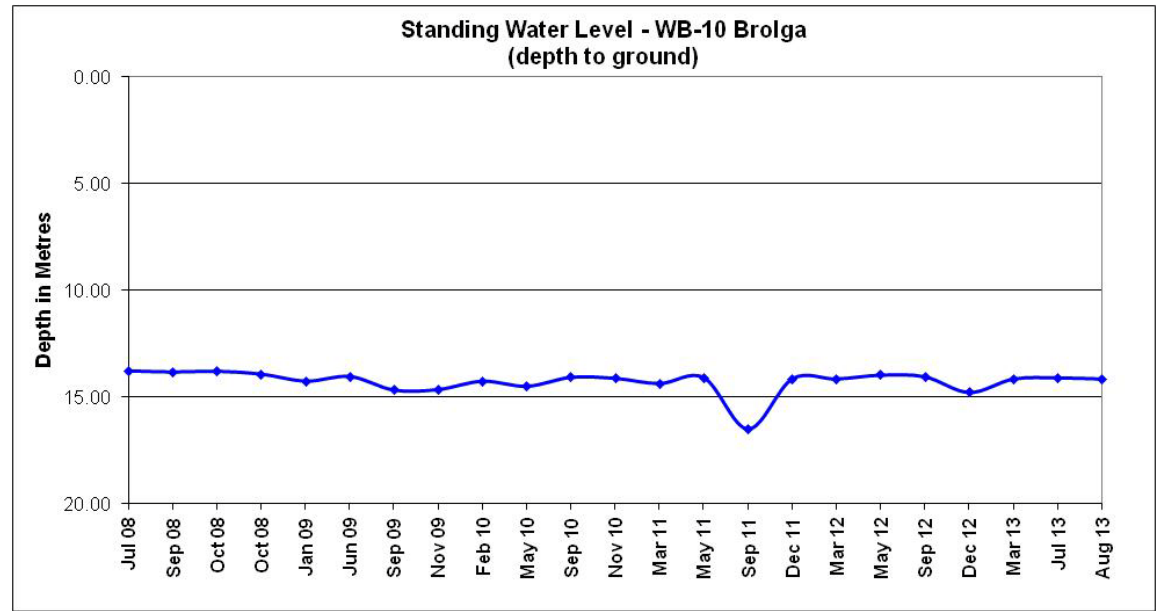


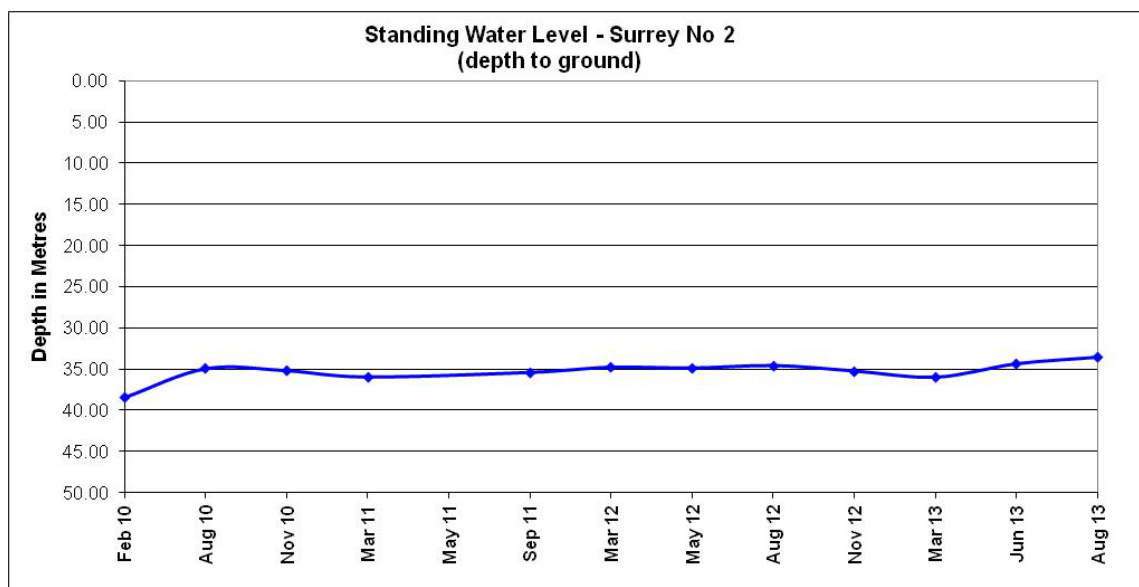












Standing water levels have remained relatively consistent since the last CCC meeting. MP5a which is located to the west of the active pit at the Whitehaven owned “Yarrowonga” property has shown a drop in standing water level during the September monitoring. This monitoring bore was predicted in the Extension Approval Environmental Assessment to have a lowering water level as mining progresses in the western section of the active pit. WB5 continues to show a fluctuating trend in water levels due to being equipped with a windmill.

Surface Water

No wet weather discharge has occurred at Rocglen during the period.

During the period, approximately 66.6 ML of water was used on site for dust suppression purposes, with 39.0 mm of rainfall recorded for the period.

Complaints

One complaint was received during the period, on the 15th August 2013, following a blast initiated at Rocglen at approximately 12:00 pm. During the complainant’s phone call, it was explained to the complainant that the blast was a relatively small blast in comparison to others initiated at Rocglen, hence no apparent impact was felt at the site office. Monitoring results received later on the day confirmed all monitors set for the blast did not trigger for either vibration or overpressure. A structural engineer has been engaged to do a follow up structural inspection of the complainant’s residence to verify no damage has occurred due to blasting at Rocglen since the previous inspection. A written response was issued to the complainant including blast monitor results. The structural inspection report will be issued to the complainant once finalised.

Rehabilitation

During the reporting period, rehabilitation work has focussed on the northern emplacement, where topsoiling, contouring and drainage works have taken place. A rock lined waterway was constructed on the northern emplacement during the period, to provide controlled drainage of the emplacement slopes (Plate 1). Approximately 8,000 trees were hand planted during the period, on both the southern and northern rehabilitation areas. Hot and dry weather during the

period has triggered the need to water these trees by both hand and drip system until sufficient rainfall is received.



Plate 1 – Rock waterway on northern emplacement October 2013