

# MINUTES OF MEETING

## STRATHALBYN COMMUNITY CONSULTATIVE COMMITTEE

Thursday 1 June 2006

@ 7.00 pm

Senior Citizens Hall, 6 Parker Street, Strathalbyn

### PRESENT:

Dean Brown - Chair	Ben Brazzalotto	David Bruer	Dr Fred Carrangis
Julia Currie	Barry Davis	Mike Farrier	Susan Jettner
Kirstie Murphy	Deputy Mayor Anne Woolford	Adrian Pederick MP	Roz Twartz
Ian Woods			

Paul Heithersay	Ted Tyne	Greg Marshall	Hans Bailiht
Brian Roderick from EPA	Scott Evans representing the Minister for the River Murray		
Richard Jewell – Consultant from Metago			

Bob Jones	John Burgess	David Gladwin
Paul Williams Australian Tailings Consultants	Chris Purton – Tonkin Engineers	
Gallery - 25		

### APOLOGIES:

Nil

1.	<b>WELCOME BY THE CHAIRMAN</b>
2.	<b>MINUTES OF PREVIOUS MEETING</b>  The Minutes of the previous meeting were accepted as a true and correct record of proceedings after the following clarifications were made.  MC means Mineral Claim  Documents for the CCC will be available in the local School Library and the Council's Strathalbyn office
3.	<b>ACTIONS ARISING FROM MINUTES</b>  Ian Woods requested that the Minister's letter be formally attached to the Minutes  A copy of the Minister's Letter will be attached to the Minutes

4.	<p><b>RIVER MURRAY BASIN</b></p> <p>This was incorporated with discussions on the Tailings Storage Facility(TSF)</p>
5.	<p><b>TAILINGS STORAGE FACILITY</b></p> <ul style="list-style-type: none"> <li>• Bob Jones and John Burgess from Terramin spoke to a power point presentation concerning the Tailings Storage Facility.</li> <li>• A request was made for hard copies of the presentations to be provided for the Committee.</li> </ul> <p><b>ACTION: HANS BAILIHT TO ORGANISE.</b></p> <ul style="list-style-type: none"> <li>• Paul Williams introduced his company ATC - Australian Tailings Consultants. He spoke about the Risk Analysis developed for the TSF</li> <li>• John Burgess presented the details of the TSF construction and the closure proposals.</li> <li>• Chris Purton, introduced himself and outlined his experience on Flood Modelling</li> <li>• John Burgess discussed about historic rainstorms and floods events at Strathalbyn and the 1:100 flood plan modelling and then gave a summary of the TSF proposal.</li> </ul>
	<p><b>SHORT BREAK</b></p>
	<p>Professor Richard Jewell introduced his background and projects he has worked on, and the guidelines developed jointly by PIRSA and the EPA for the Terramin TSF. He stated that he was attending the meeting to answer any questions and that the ethics for the TSF are based on the Statement of ethics of the Institute of Professional Engineers</p> <p>He stated that it was the Risk Assessment approach to the design of the TSF that would be presented for consideration to PIRSA.</p> <p>He also advised that Acid Mine Drainage (AMD) will be generated from this mining proposal and had to be well managed.</p>

	QUESTIONS
Q1	<b>TSF design is quite different to the original proposal.</b> John Burgess spoke to the height above Langhorne Creek Road – 23 metres approximately
Q2	<b>Height of Dam Wall?</b> 17 meters high
Q3	<b>What is width of base of Dam?</b> 60 metres
Q4	<b>Final land Usage</b> Grazing – no trees, just grasses
Q5	<b>Tailings should go somewhere else?</b> Where? We looked at a number of areas and considered this to be the best.
Q6	<b>What other areas?</b> Over to Council Evaporation Ponds
Q7	<b>Transport elsewhere for processing?</b> This would be too costly
Q8	<b>ANCOLD and WA guidelines, are they World's Best Practice?</b> Richard Jewell responded, this comparing the various guidelines and outlined that the Guidelines developed for the Angas Project by PIRSA and EPA incorporates the relevant sections of all the guidelines.
Q9	<b>Tailings are not placed in an acid state?</b> The tailings will produce AMD given the right conditions
Q10	<b>Will Lime be used to neutralise tailings?</b> Not practical to use lime due to the large amount required
Q11	<b>ARI tables – are they American tables? (Average Recurrence Interval)</b> C Purton explained what this means.  EPA comment on water containment of the TSF Scott Evans comment – On flood plain issues & River Murray Catchment
Q12	<b>Hydrology ARI tables should be upgrounded?</b> Since 1982 new edition Australian Rainfall and Runoff Guidelines are now used exclusively in Australia.
Q13	<b>Climate change – What are the likely effects of Terramin project?</b> This can vary, experts don't agree which way this will go. It appears that the amount of rainfall at Strathalbyn could be much the same in the future as in the past.
Q14	<b>HDPE liner, how long has it been around and how long will it last?</b> Paul Williams – HDPE has been used over the past 50 years, once buried it lasts forever.
Q15	<b>What would be the effect of seismic event?</b> It has a 1:500 Earthquake and 1:5000 Leakage criteria There are no earthquake faults lines that run through this mine site location.
Q16	<b>Has there been any research on Seismic activity on Site</b> Yes

<b>Q17</b>	<b>Has any testing been done on HDPE Liners?</b> No not to our knowledge
<b>Q18</b>	<b>What ongoing maintenance for HDPE?</b> Nil - Construction techniques used will protect the membrane from damage
<b>Q19</b>	<b>What monitoring is located under membrane?</b> No, there will be no leak detection monitoring under dam, just on the perimeter.
<b>Q20</b>	<b>What type of material is HDPE?</b> Smooth. Described how the liner is placed using on site welding and pressure testing of the liner
<b>Q21</b>	<b>Avoid any vehicle going over . How will tailing go down mine?</b> Tailings would be taken directly from Mill and put down into the mine void up to a total of 40% of the tailings could be placed underground but the TSF has been designed for the worst case assuming nothing goes underground. J Burgess described the procedure for underground placement
<b>Q22</b>	<b>What Chemicals are in tailings that would effect the lining?</b> Flocuant and zanthate 50gm/tonne. They would have no effect on plastic HDPE liner
<b>Q23</b>	<b>What is the Chemical grading assessment on HDPE liner</b> <b>ACTION: JB TO SUPPLY THIS INFORMATION FOR THE NEXT MEETING&gt;</b>
<b>Q24</b>	<b>Terramin assurance of the quality of the HDPE is first grade</b> There are 1 or 2 suppliers in the world, Nylex make it in Adelaide.
<b>Q25</b>	<b>What is the life of the TSF?</b> The TSF will be there forever.
<b>Q26</b>	<b>Will development be allowed on the site at any time?</b> No. It should never be built on, only to be used for grazing.
<b>Q27</b>	<b>Sodium metabisulphide will be used in tailing.</b> Yes, only 250gm / Tonne , very small amount, too small dose
<b>Q28</b>	<b>What is the legal status of the EPA &amp; PIRSA?</b> EPA will have to licence the site, Terramin have an environmental duty of care PIRSA may grant a lease under the Mining Act. It has the equivalent status as all State legislations.
<b>Q29</b>	<b>How big an area will TSF cover?</b> 15 Hectares
<b>Q30</b>	<b>TSF designed for worst case scenario, 100% of tailing?</b> With underground placement, final dam levels can be lowered.
<b>Q31</b>	<b>Closure of land, what monitoring following closure?</b> Will be monitored as long as is required by EPA and PIRSA. Some modelling from Terramin is required MARF mine closure criteria must be supplied by Terramin and approved by PIRSA
<b>Q32</b>	<b>Mine closure, if mothballed what happens?</b> Bond will remain in place to be used if any environmental issues arise. \$63 Million – the company hedge metal prices, lock in price of Zinc so if prices fall the company has locked in the income for 5 years. Hedge for up to 5 years.

<p><b>Q33</b></p> <p><b>Q34</b></p> <p><b>Q35</b></p> <p><b>Q36</b></p> <p><b>Q37</b></p> <p><b>Q38</b></p> <p><b>Q39</b></p> <p><b>Q40</b></p> <p><b>Q41</b></p> <p><b>Q42</b></p> <p><b>Q43</b></p> <p><b>Q44</b></p> <p><b>Q45</b></p> <p><b>Q46</b></p> <p><b>Q47</b></p> <p><b>END OF QUESTIONS</b></p>	<p><b>What Insurance is in place?</b> Insurance of \$50 million for pollution of the site Plus rehabilitation bond will have to be in place prior to operating on the site.</p> <p><b>TSF will it be built in total and will the sun break down liner?</b> This liner will be covered and buried out of the sunlight.</p> <p><b>After rainfall, will AMD be created and will birds be attracted?</b> Minimal pond size with a PH of &gt;9 this will not produce AMD and will not attract birds.</p> <p><b>What erosion protection will be used to protect HDPE?</b> Beaching and anchoring the edges around the perimeter will be used.</p> <p><b>What if there is a 1.500m rainfall event?</b> Risk basic very low with the rainwater contained in the TSF</p> <p><b>What sort of freeboard is required to hold these sort of rainfall events?</b> <b>ACTION: PAUL WILLIAMS WILL GET BACK WITH THIS INFORMATION</b></p> <p><b>In Figure 39, where is the stormwater going to go? can the stormwater be captured and used in the process water?</b> The stormwater is diverted around the perimeter of the TSF and no, this will not be used as process water.</p> <p><b>How will erosion damage be minimalised?</b> Native vegetation plantation to be established</p> <p><b>What is the effect of AMD on Liner?</b> No effect.</p> <p><b>Who will monitor the site, independent?</b> During mine life Terramin will monitor. Results by independent third party audit</p> <p><b>What happens to bond if there is a change of mine owner?</b> Bond transfers with ownership, Monitoring will be done by Nata Lab.</p> <p><b>How does Government know if there is monitoring failure or out of spec?</b> EPA licence condition and Mining lease condition. 6 monthly monitoring.</p> <p><b>Can the process plant be used to process ores from other sites?</b> No there would be a strict lease condition preventing this.</p> <p><b>Can DWLBC return for another meeting?</b> Yes</p> <p><b>Thickened Tailings – what potential for bird life on it?</b> Highly unlikely, will be fenced off and the tailings will crust over quickly, birds don't land on mud!</p>
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	<p><b>Declaration Of Interest In Terramin To Be Clarified.</b> Roz Twatz Stated That Her Husband Has Shares In Terramin</p>
	<p>Mike Farrier was recording the proceedings. <b>It was agreed that PIRSA would record further meetings.</b> <b>ACTION: HANS BAILIHT TO ORGANISE EQUIPMENT FOR PIRSA TO RECORD THE FUTURE MEETINGS.</b></p>
6.	<p><b>VISIT BY SCCC MEMBERS TO SITE</b></p> <p>The on site inspections of the Terramin minesite will run for about 1 hour and have been scheduled for:</p> <ul style="list-style-type: none"> <li>• Saturday 3 June @ 9.00 am</li> <li>• Sunday 4 June @ 3.00 pm</li> </ul> <p>It was agreed that a party of 6 would attend Saturday and two on Sunday the others will make suitable arrangements directly with Terramin. Meet at Terramin House on Lot 8 to be issued with safety equipment for the visit.</p> <p>The 'Guidelines for Tailings Storage Facilities was circulated to the Committee.</p> <p>Visiting Stawell to be arranged in the near future. This could be a 2 day trip.</p> <p><b>ACTION: HANS BAILIHT TO ORGANISE</b></p>
7.	<p><b>ISSUES FOR NEXT MEETING</b></p> <p>Topics for the next meeting:</p> <ul style="list-style-type: none"> <li>• Visual impacts</li> <li>• Groundwater</li> <li>• Native Vegetation</li> </ul> <p>15/6 - <b>NO MEETING</b> 22/6 - specialist for Lead and Heavy Metals for Port Pirie (Health)</p> <p>The information collected on the whiteboard last week will be collated into a report and forwarded to the Committee.</p> <p><b>ACTION: Chairperson</b></p>
8.	<p><b>FURTHER DISCUSSION ON TOR – IAN WOODS</b> <b>Held over to next meeting.</b></p>

9.	<p><b>MEMBERSHIP OF THE COMMITTEE – IAN WOODS</b></p> <p>Ian Woods stated that the School should be a key player and should be on this committee. Governing council has written to the Education Minister requesting to join the committee.</p> <p>Not the power of this Committee, is up to the Minister. No motions were put forward.</p> <p><b>ACTION: THE CHAIR WILL TAKE THIS TO MINISTER</b></p> <p><b>There will be a Press Release after each meeting - THE CHAIR TO ACTION.</b></p> <p><b>The Chair will take the full range of concerns of the Committee to the Minister</b></p>
10.	<p><b>GALLERY INPUT – IAN WOODS</b></p> <p>Gallery should ask questions of experts.</p> <p>Chair will give some thought to issues raised by observers.</p> <p>Mike Farrier suggested PIRSA should set up 1800 hotline, email or letter would be more suitable.</p>
11.	<p><b>REPORTING FROM THE COMMITTEE – IAN WOODS</b></p> <p>Will be dealt with under Item 3</p>
12.	<p><b>COMMITTEE FEEDBACK AT MEETINGS – IAN WOODS</b></p> <p>Not discussed.</p>
13	<p><b>NEXT MEETING</b></p> <p>Thursday 8 June 2006 starting at 7.30 pm and running through to 9.30 pm</p>
14.	<p><b>MEETING CLOSED - 10.45 pm</b></p>

ITEM NO:	ACTION	BY WHOM
5.	<b>TAILINGS STORAGE FACILITY</b> Hard copies of the presentations to be provided for the Committee.	<b>Hans Bailiht</b>
Q23	<b>What is the Chemical grading assessment on HDPE liner</b> This Information To Be Supplied To Next Meeting	<b>John Burgess</b>
Q38	<b>What sort of freeboard is required to hold these sort of rainfall events?</b> Information to be supplied	<b>Paul Williams</b>
5.	<b>It was agreed that PIRSA would record further meetings.</b> Equipment To Be Organised To Record Future Meetings By PIRSA	<b>Hans Bailiht</b>
6.	<b>Committee to visit Stawell.</b> To be arranged in the near future. This could be a 2 day trip.	<b>Hans Bailiht</b>
7.	The information collected on the whiteboard last week will be summarised into a report and forwarded to the Committee.	<b>Chair</b>
9.	Membership of the Committee and the full range of concerns will be taken up with the Minister.	<b>Chair</b>
9.	Press Release after each meeting .	<b>Chair</b>