

STRATHALBYN COMMUNITY CONSULTATIVE COMMITTEE

NOTES OF WORKSHOP

Angas Processing Facility Miscellaneous Purposes Licence Community Technical Workshop

Tuesday 29th August, 2017 at 12.00 pm

Strathalbyn Library, Colman Terrace, Strathalbyn

1. WELCOME AND OPENING REMARKS

Kelvin Trimper opened the workshop at 1.00pm.

2. PRESENT AND APOLOGIES

PRESENT:

Committee Members:

Kelvin Trimper (Chair)

Anne Woolford

Mike Farrier

Malcolm Twartz

Julia Currie

Secretary:

Caroline Holloway

Gallery and Presenters:

Joe Ranford (Terramin)

Matt Daniel
(Terramin)

Katy Fechner (Terramin)

Mike O'Reilly (Terramin)

Gwenda and Rod
Glover (Neighbours)

APOLOGIES:

Fred Carrangis

Rhonda McCarthy

Mayor Keith Parkes,
Alexandrina Council

CEO Glenn Rappensberg,
Alexandrina Council

Sue Jettner

Karen Rogerson

Mark Stewart (DPC)

3. MISCELLANEOUS PURPOSES LICENCE (MPL) OVERVIEW

- Joe gave a summary of the history of the Bird in Hand mining operations since the 1880s and an outline of the location and surrounds of the site; area surrounding the site includes grapes, grazing, Heritage agreement native vegetation; footprint will be 11 Ha of disturbance and 4.5 Ha of operational works; an overview of the underground mine design was also given.
- A comprehensive body of work has been undertaken in the management of water on site and baseline data on air quality, flora and fauna, weather and traffic has been gathered
- Process : MPL – Miscellaneous Purposes Licence application; PEPR required; annual compliance report (one for the mining lease and one for the licence); will be out for formal Government

public consultation; processing occurs after PEPR is approved with regular reporting; 6-12 month timeframe following approval before any real processing occurs at AZM.

- Timetable – Lodgement of MPL application ideally by End Nov 2017 dependent upon timeframes of feedback from DPC; a suggestion was made that public consultation should include a workshop/presentation to Alexandrina Council as a whole and an open community form as well as the Strathalbyn Show, SCCC meetings, fence chats, emails etc; vacant shop in main street of Strathalbyn for people to drop in; advertisements in the local papers.
 - **Action:** Terramin to consider setting up a workshop to Alexandrina Council – every second Monday is already allocated to workshops for Council; Action completed within the meeting; Workshop set for September 18th.
 - **Action:** Terramin to consider setting up an open shop in the main street of Strathalbyn for community information and consultation.

4. BIRD IN HAND – ANGAS ZINC PROCESSING FACILITY GOLD PROJECT OVERVIEW

- Proposed mine concept involves establishing a low impact underground mine to access gold bearing rock at Woodside; transport of ore to Angas processing plant; producing a gold concentrate for domestic and export market; haulage component – concept peak production rate 140,000tonne per annum (tpa), haulage rate 32t payload; average of 12 loads of ore per day at peak production; the plant will be operating 32% of the time at the peak production rate; Mining activities will occur 24 hours per day underground; ore will be stockpiled and only transported during the day outside of school drop off times; underground mine will not be seen, surface infrastructure will be designed to blend into the existing environment;
- Currently this is a five year project but may be longer as more complete information becomes available; if the project needs to be extended beyond the five year project, then a new solution will be sought and any new changes will be assessed again and a new PEPR will be developed as required; currently the size of the TSF at AZM will cover the 5 year project.
- Noise and dust are the main issues to be considered.

5. ML6229 OUTCOMES

- Mining lease ML6229 covers the existing boundary for the Angas mine site; proposed MPL boundary is a reduced boundary;
- Water can be taken off site as long as it meets EPA standards and other standards; captured in water flows outcome;
 - **Action:** Joe to investigate area south of the proposed MPL boundary line to look at potentially shifting it west to the original boundary
- Joe presented a handout table of the Mining Lease (ML6229) approved conditions, operations outcomes and proposed MPL outcomes and how the Closure outcome can be applicable for both; note that all conditions already covered by the existing PEPR remain in place; approved closure plan will need modification with changes occurring under MPL; ML period of 10 year period was renewed for another 10 years as at May 2016.

6. PROPOSED CHANGES TO ANGAS ZINC OPERATIONS

- Processing: going to use the same flotation process, same infrastructure and utilise the existing TSF; no cyanide being used in the process; no crushing will occur at Woodside however the size of rocks going into the primary crusher at AZM will be on average 300mm in size as opposed to up to over 1m in previous operations at AZM
- No zinc/lead mining under proposed MPL; any return to mining must be under ML6229
- Blasting: no mining under propose MPL, no vibration or air overpressure
- Explosive storage: existing AZM magazine to be utilised for BIH; transport will follow Australian standards
- Geotechnical stability: no changes to underground mine void; monitoring will continue under ML6229
- Groundwater: monitoring will continue as per ML6229;
- Traffic: max 140,000tpa will be brought to site; site was initially designed for 400,000tpa; 12 truckloads a day/7days per week using a truck and dog system (<19m in length); same times are

- being observed - no driving at night, early morning or school drop-off times; trucks containing concentrate leaving site – up to 15 loads per month and will be covered; no ore haulage through Strathalbyn; trucks that drive through town will not be loaded; optimal route is Route 2 from Nairne freeway to Callington to Strathalbyn (45 minutes between sites); strict criteria in truck driver standards; will not run in disaster plan times; No ore haulage trucks during the following hours 6-9am, 3-4.30pm, 10pm-6am; Terramin will ensure no truck dragout onto Callington Strathalbyn Rd
- Noise changes: no paste plant; no ventilation fans; no dump trucks, underground loader, jumbos etc; reduced processing capacity from 440,000tpa to 140,000tpa (about 1/3); operating crusher and mill approx. 14 days straight/month (not every day as was under ML6229) and stopped for two weeks; trucks will still come in and stockpile rock on the off two weeks – rocks will be smaller from BIH than AZM ore and fewer tipper events; no reverse beepers to continue; noise curtains to be installed around SAG mill gearbox through refurbishment; refurbishment will happen up front, ahead of processing; ore deliveries approx. 12 loads/day; no rock breaker needed; no cement or ground support deliveries; reduced deliveries – diesel, tyres, explosives; staff on site to be confirmed, at this stage around 8 people per shift but varying shifts plus admin/management staff; outcome expected is no public nuisance from site and compliance with EPA standards
 - Dust: no underground mine dumping on ROM pad; less ore; decreased use of crusher; no cement trucks; vegetation now well established; ore itself is not a dusty product (not like a load of dirt).
 - Closure changes: TSF will be full – closure plan to be updated to reflect that; same closure outcomes as agreed with community; same site contamination audits; closure rehabilitation as per approved closure plan, only changes to closure are to the TSF; still using phytocap system and monitoring for sustainability; more soil to be sourced for phytocap system to elevate it due to level in TSF; risk assessment has been done with consultants regarding the phytocap – tailings will be less acidic due to chemistry involved; no adverse impact to the supply of water by the processing operations to existing users and water dependent ecosystems
 - A question was raised as to whether or not there will be a physical effect due to the combination of the acid and the carbonate in layers, risking failure of the phytocap.
 - Action: Matt to follow up on physical effects of combining the new tailings with the existing tailings
 - No SEB areas will be affected

7. CHANGES TO THE TAILINGS STORAGE FACILITY AND CLOSURE

- Remaining capacity expected after gold tailings is 21,664 cubic metres; this will allow capacity for large rainfall events; modelling is being done; calcite carbonate tailings is acid consuming; consultants don't believe that odour from this reaction will be a problem but may be good to get this looked at in more detail
 - Action: Matt to follow up regarding potential odour production from tailings interactions
- Lease conditions – TSF will be operated and maintained in accordance with Department for Mining regulations and EPA.
- TSF will be full from BIH tailings when closed; phytocap will still be implemented; difference is more volume required for TSF walls; soil being stockpiled on site (sourced from neighbour) and being added to over the next 12 months; grass will be planted on pile to manage dust.
- Terramin have done some work on exploring the visual impacts of the site from various viewpoints eg. Willyaroo
- TSF Land Management Agreement (LMA) remains in place post-closure; contamination criteria remain the same; following completion of the new PEPR, one large environmental management plan will be compiled to cover both the ML and the MPL; same environmental monitoring as was used through ML6229

Kelvin encouraged Terramin to be as thorough as possible in the consultation process especially given the potential future political environment; Table comparing the current PEPR and conditions following the new MPL and the potential outcomes is a useful document – ones which result in a changed outcome need to be highlighted; distinction between the use of the words “mine” and “processing plant” needs to be clear given the connotation of these words amongst the community.

Kelvin also advised that those who could not attend the meeting are invited to familiarise themselves with the background information and, if they have any questions, they are invited to contact the Terramin representatives for clarification.

- Action: Katy to provide additional information via the dropbox and any further information can be obtained by contacting Matt, Katy or Joe.

8. WORKSHOP CLOSE 4.15 pm.

Actions List:

Terramin	To consider setting up a workshop to Alexandrina Council – every second Monday is already allocated to workshops for Council;	Action completed within the meeting; Workshop set for September 18 th .
Terramin	To consider setting up an open shop in the main street of Strathalbyn for community information and consultation	
Joe	To investigate area south of the proposed MPL boundary line to look at potentially shifting it west to the original boundary	
Matt	To follow up on physical effects of combining the new tailings with the existing tailings including odour production	
Caroline	To include Gwenda and Rod Glover in distribution of minutes from this workshop	