

FOSTERVILLE GOLD MINE - ENVIRONMENTAL REVIEW COMMITTEE

1st August 2018

MINUTES

Tour Undertaken at 9.30am
Attendance: Jeff Cummins Barrie Winzar Cr James Williams
Areas visited: Mine Water Treat Plant, Ventilation Upgrade Surface Site and Paste Plant Geotech Drill Site

Meeting Opened at: 11:00am	Minutes by: Trudi Jackson
Attendance: Chairman : Clare Fountain Tim Harrington – Community Representative Jeff Cummins – Community Representative Barrie Winzar – Community Representative Felicia Binks – FGM Trudi Jackson – FGM Joseph Hughes- FGM Erin Simpson - FGM Ion Hann – FGM Mark Andrew - FGM Rachael Spencer – FGM Morgan James (CoGB) Lynley Strachan (GMW) Cr James Williams (CoGB) Nick Tuohey – EPA Ashley Elliot – Goldfields Revegetation Grant McFarlane (ERR)	Apologies Observers Ross Potter (ERR)

Meeting Commenced: Clare Fountain commenced the meeting and welcomed everyone. Clare also thanked the Community Representatives who volunteer their time to be a part of the ERC and we appreciate their efforts. Clare then asked the committee if anyone would like to declare a new conflict of interest to add to the existing register. There was no response from the committee and no new conflicts of interest recorded.

Felicia Binks also announced that Ion Hann is now the General Manager at Fosterville Gold Mine.

Minutes of the Previous Meeting

Jeff Cummins noted the questions he had raised at the previous ERC via email. It was not his understanding that previous reporting of air quality exceedances were made to regulators at the ERC meetings. These are high risk events and the reporting requirements suggest where we do have breaches they must be reported to the regulator.

Felicia responded by saying that we only report these results through on a quarterly basis. The results from the previous quarter had indicated consistent trends for the first time. She also noted that the High Vol results come in at the end of the quarter.

Moved: James Williams

Seconded: Barrie Winzar

Action Items

Old Historical Tailings

Felicia noted that more sampling of the old tailings had occurred. A grid pattern of 9 auger holes to 1.2 depth has been undertaken with the results to determine if they are economic to process. The grades have come back at less than 2g per tonnes. Arsenic and Antimony results are still to come and the metallurgists will conduct testing to see if the tailings will be suitable for floatation. More discussions with DELWP will be had moving forward.

Hi Vol Results in Annual Report

The Hi Vol results now appear in the updated report on the KLG website

Dust Breaches

Will be discussed in the air quality section of the ERC presentation

Waste Rock Management

Felicia will present some slides in the project updates on the waste rock management options

OTHER BUSINESS – to be discussed at end of presentations

Morgan raised the fact that the term of the Community Representatives for the Fosterville Gold Mine ERC had now expired

Tim wanted to discuss a tree hazard on the Huntly Fosterville Road

Felicia wanted to update the ERC on the Environment and Community Team and the Elmore Field Days

PROJECT UPDATES

Ventilation Upgrade (As per presentation delivered by Mark Andrew)

Jeff asked the question if the noise modelling for the current plans does not meet requirements will FGM go to plan B which would be an underground option at approximately \$3 million dollars as mentioned by Ion Hann. Ion responded by saying that would be the final option if other alternatives did not meet requirements. Nick asked if this modelling would be presented to the ERC/regulators. Felicia said no and that this work was completed by consultants. FGM provide them with the requirements as a part of the scope of works. Ion added that in addition we have an independent consultant to review the final results. Jeff said it would be useful to update the ERC at the next meeting on how this is progressing.

Grant mentioned that an acoustic barrier could be added to the area to which Felicia said yes it could be if the results were border line. Mark stated that noise attenuation at the source is the primary control and the secondary control is the enclosure. He also mentioned that FGM had spoken to other operations in other states for advice. Nick asked what was the distance to the closest receptor to which Mark said 900m to the south. Felicia said it was a similar distance to the East. Mark mentioned that currently mine air enters through the portals and is exhausted

at the Harrier Vent Shaft. Once commissioned this new vent shaft will become the only point air is exhausted. Lynley then enquired about drainage at the work site. Mark said there was drainage 100 m away, the southern diversions drains. Felicia added that there are plans to upgrade the culverts.

Waste Rock Management (As per presentation delivered by Felicia Binks)

Tim asked about the 5190 option in height terms and how does this compare to the visual bund that is currently in place. Felicia said it would be below the tree line but above the height of the bund. Tim then said if we build 15-20m height at 1 in 3 batter would FGM need to change the model to prevent erosion given that previously FGM only had oxide material whereas this will be sulphide material. Lynley added that 1 in 3 for a dam bank can vegetate well. Tim responded by noting that a dam bank is not of similar height. Ion said that more science would need to go into the design. Tim then asked about the depth of capping with oxide given there would be sulphide below. Ion responded saying that at present we could not answer that.

Tim asked where the oxide would be sourced from. Ion said FGM would have to be very careful of doing anything across the road and that we still have a fair dump around the other side of Harrier that could be a source. Grant then asked about the time frames involved with filling the pit. Felicia said it would be approximately 17 months to the crest, then 26 months to level 1 and then 36 months to level 2.

Tim added that there are a lot of hinging factors on the options available and it must all be dependent on grade given that we would be trucking material twice and even three times. Ion said yes, development is at an all-time high presently with waste development. This may decrease once we are out of this waste development area. Ash then asked if the new waste dump would be the same height as the McCormicks waste dump. Felicia said it may possibly be lower. James asked if a work plan would be required. Felicia said yes, we would have a kick off meeting to make everyone aware a Work Plan Variation will be coming. Ash asked is the McCormicks option would be the same volume as filling Falcon Pit. Ion said it would be more. Jeff then enquired about the footprint of the new core shed. Felicia said originally it has been planned to be 90m by 60m.

Car Park

Felicia mentioned that a work plan variation is required for the car park extension. Barrie asked how many extra cars would be accommodated to which Felicia said 45. Nick then asked if people car pool to work. Ion said some do with Felicia adding that a bus has also been discussed but it is not a short term solution. Tim noted that he does see some car-pooling occurring.

OPERATIONS REPORT

(As per Operations Report issued to members)

Safety

As per the report

Nick enquired to see if those who are getting injured are at the end of their shift/rosters. Ion said we look at the data and cannot see any clear trends. We can't say that it is new starters or differentiate between day and night shift, early or late in the swing. Sometimes injuries are around weekends but it is not consistent to certain rosters. Tim added that given there is nearly 600 staff, all working between 8 to 12 hour shifts the injuries compared to man hours would be low. Ion said that FGM reports per 200,000 man hours and we sit at 20 to mid-20 injuries to 200,000 man hours. Tim asked if FGM was on par with industry. Ion said we are the best performing site within the Kirkland Lake Group. Within Australia we sit in the middle but at FGM we report everything and not everyone is as diligent. Tim said given the hours the injury rate was good.

Lynley then asked about fitness injuries and what does FGM do to promote fitness offsite. Ion said we offer free entry to pools and we have campaigns at various time such as bringing a nutritionist to site. Lynley if there was any others. Ion said it is a balance between both private and work programs.

Environment Report

As per report and presentation

Discussions

Grant noted that not a lot of land on the FGM site is under Dja Dja Wurrung. Felicia said that exploration in the Sugarloaf area, the new tails dam near the Gunyah Creek Line, some crown land and anything to the south near the Campaspe is under the Dja Dja Wurrung. Grant then asked if FGM had had correspondence from the Dja Dja Wurrung regarding any compliance action being taken by ERR in the past. Felicia said no.

Jeff then made comment on the dust incident and given it was a very dusty day he applauded the company for taking proactive action by stopping the works.

Ash commented on the spray drift incident and asked if FGM wash down the affected trees. Felicia said sometimes but not on this occasion. Tim asked if our wind rate of 12km/hour was still used as the cut off point for the spray drift operations. Felicia said yes or a variation of that number.

Jeff then asked about the oil spill and was it out of visual sight. Ion said no it wasn't so it is surprising that it was not noticed earlier.

Barrie asked about the Campaspe River Survey that was recently conducted and if there was a significant variation seen between this survey and the previous one. Felicia said FGM had only just received the interim report and needed to wait for the second survey to be completed later in the year. Lynley commented that it would be good to see it improving. She also asked about the spray drift area and if this was ever dry and created dust. Felicia said the area was kept damp but the sides do crust up.

Water Quality

As per report and presentation

Nick asked if BGL59 is the same bore that regularly comes up. Felicia said yes it was. Nick then asked if FGM knows why. Felicia said we think it may be too close to the pit. James added that it seems to reflect environmental conditions. Tim mentioned that there are historical tails in this area and that could also have an influence. Nick asked if this will be discussed with the hydrologists to see if another bore needs to be sunk. Tim added that the historic sands are everywhere so there may be no point in doing this. Grant asked if FGM has ever done independent cross checks. Felicia said we had but not for a number of years. Grant also asked if the testing is of a high quality.

Air Quality

As per report and presentation

Jeff said in regards to dust conditions over a 24 hour period the winds are very variable and FGM cannot say that the dust is background. He added that FGM must be picking up sources within the lease given the locations of the dust monitors and that it is his belief that the background is influenced by the site. A true background needs to be under no influence of the site. Nick then enquired if FGM had had a consultant do some work around dust. Joe said the locations of the dust monitors were chosen by consultants.

Grant and Nick both agreed that to get an accurate result a dust monitor needs to be located out of the site's influence. Jeff said that upwind and downwind is the preferred terminology for the monitors. Tim asked if the current locations meet standard i.e. are they in a clear area as he believes they are not in the correct locations. Claire then clarified by asking Nick do these locations meet regulations. Nick responded by stating HVA51 which is west of the road is good for plant dust but not for the road. After speaking with the air specialist from Melbourne, there may be a few

sources of dust at this location which include the road and the plant. The results from Q1 are really unknown with regards to sources and are variable.

Felicia then said that the data from testing of the stacks has been provided as well. Nick then mentioned that continuous dust track monitoring should be considered. These can have an SMS function so that issues can be responded to immediately. These monitors can do both PM 10 and PM 2.5. Jeff added that the consultant had previously recommend a continuous monitor and that he was in support of this. He also said that the company's response that a dust track monitor was too expensive was not a good reason given all the current projects at FGM. Felicia responded by saying that FGM never said it would not invest in a track monitor because it was too expensive, it was because at the time they did not meet Australian standards.

Jeff then asked if the EPA do PM 2.5 and PM 10 regional monitoring. Nick said no they don't. Jeff then said that a metal analysis of the dust was useful but we need to go back to basics on the health impacts on PM 2.5 from the EPA website. PM 2.5 can have health implications and be detrimental to those with pre-existing conditions. Felicia added that they cannot analysis PM 2.5 as there are no standards to compare results to. Grant added that Mandalay and GBM use continuous dust track for PM 10 only. Jeff and Nick agree that the source of the PM 2.5 was useful to know.

Noise

As per report and presentation

Jeff asked if FGM noise monitoring personnel call in when they hear an exceedance. Joe said that it depends on the time but generally yes they do. Tim asked what type of hose was suspected to be the cause of the noise breach. Felicia said it was a water hose.

Tim asked about the blasting and stated that even though the vibration from blasting is under the limit compliance how does FGM deal with residents who are not happy with just meeting these regulations and are still noticing issues. Ion responded by saying we are significantly under with regards to compliance but we still have people who notice and fell an impact from blasting. To assist with blasting impacts we have moved to programmable dets as they are better for reducing blast vibration. We also look to minimise the amount of rock that we blast at any given time. Tim asked if we will work with people on this. Felicia said yes. Grant added that ERR can offer independent blast monitoring if a complaint is received. Ion added we are also open to ideas from people.

Community

As per the report and presentation

Nick asked if the dam on a residence north of the mine has been sampled since last time he attended the ERC meeting. Felicia said no and that FGM would follow up.

Production Update

As per the report

Grant asked if there had been any capital improvements in the plant. Ion said yes, we have the new gravity plant and new agitators in addition to mine control and variable speed drives to reduce power consumption.

Personnel

As per the report

Exploration

As per the report

Rehabilitation Report

As per the report

OTHER BUSINESS

Community Representative Terms

Morgan said that previously the ERC representatives had been appointed by council but moving forward this is probably not the role of council. Council will need to speak with ERR around this. Felicia added that in the meantime if the reps are happy can they continue. Morgan said yes.

Ross then added by saying that ERR are doing a review on ERC policy and governance. The intention is to review all of this this year and draft recommendations will be made to the company. Barrie then said that in his time on the ERC we have been either nominated by council or publically voted in and over that time there had been 5 reviews into the ERC's.

Tim then mentioned the clean-up day that was held and said he would be pleased to give up two afternoons a year to participate in something like this. He also raised that near 1075 Huntly Fosterville Road there is a tree that presents a significant hazard and asked if council could assist in fixing the large limb that is hanging over the road. James said he would action this.

Felicia then mentioned that FGM will have a stall at the Elmore Field Days this year.

Other – Action Items

Historical Tailings - Progress of rehabilitation or movement of tails

Private Landholder Dam North of the Mine - FGM to follow up sampling.

Ventilation Upgrade – Update to ERC committee on design outcomes from the noise modelling

Meeting Closed: 1-20pm

Next Meeting: Tuesday 30th of October 2018