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Review of the KCCCC Community Action List (CAL)

Topic 1: Environmental emissions: including dust, noise, vibration, traffic and light

| Issues | Community expectations | Actions |
|---------------------------|--|--|
| Dust and lifestyle | <p>The community expects:</p> <ul style="list-style-type: none"> that dust levels from the mine site should be such that they do not unduly disturb the lifestyle of the surrounding community to see a major reduction in the drift of dust ('dust halo') previously observed at the site | <ul style="list-style-type: none"> KCCCC formed a Dust Working Party in March 2014. Working Party reports have been presented at each KCCCC meeting as a standing item Site visits and first hand observations and discussion around dust sources, dust management and dust monitoring have been facilitated. A community information sheet on <i>Sources and Management of Dust</i> has been produced Improvements to dust monitoring and response planning have been delivered by the mine through the reviewed mining plan (PEPR July 2014). Three sets of continuous dust monitoring equipment have been installed at the mine in late 2014. These are capable of monitoring PM10 and all dust and are located in a triangular pattern around the mining lease focused on where there is a close proximity to residents The reviewed mine plan (PEPR July 2014) contains a revised dust management program including enhanced dust monitoring and an expanded dust trigger and response plan. The trigger and response plan places constraints on mine operations as dust risk increases including the shutting down of mining operations in extreme conditions. Opportunities for improved dust suppression using technology transfer from agriculture have been examined. The EPA has been invited to attend KCCCC meetings to assist the community better understand its role. EPA has agreed to send a representative to attend KCCCC meetings and has made various presentations. |
| Dust and health | <p>The community expects that:</p> <ul style="list-style-type: none"> there should be no community health risks from dust emissions from the mine site the quality of rainwater for community members living nearby the mine site is not jeopardised nor any risks to food production or organisms in the food chain | <ul style="list-style-type: none"> Information about potential health risks (related to dust) has been received from an independent health professional using dust monitoring data and information provided by Hillgrove including work conducted by independent expert consultants engaged by the company. Dr Simon from SA Health agreed to perform this task as the independent health expert. A hosted site visit was arranged to introduce Dr Simon and provide an opportunity for first hand observations A preliminary report on Dust and Health was received by the KCCCC from Dr Simon |

DRAFT

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| | | <ul style="list-style-type: none"> • Dr Simon was hosted at a KCCCC meeting to discuss dust and health matters with the community • A site visit for Dr Simon and others was conducted to look at new dust and weather monitoring arrangements at the mine • Dr Simon agreed to continue to be engaged with the community and has been in regular contact on follow up matters • A draft Information Sheet on <i>Dust Monitoring</i> was produced. This is currently being updated to include the new monitoring equipment • Hillgrove has extended its independent rain water tank monitoring program to include any local residents of Kanmantoo or Callington (within 5 km of the mine site) who wish to be involved |
| Noise | <p>The community expects:</p> <ul style="list-style-type: none"> • that noise levels from the mine site should be such that they do not unduly disturb the lifestyle of the surrounding community • that the company will recognise and respond to noise risk as it relates to the nature of operations (type of activity such as blasting, crushing and traffic) plus conditions like wind, day or night and changes to background noise that lift or lower aggregate noise levels. • to see an active, real time response to reduce the noise from the site on 'peak noise days' where weather or other conditions mean less tolerance for noise. | <ul style="list-style-type: none"> • Reversing alarms (white noise) designed to reduce noise 'carry' have been installed on all vehicles • A review of the use of tracked vehicles particularly at night on the building of the Tailings Storage Facility (TSF) was conducted. A trial of the use of rubber tyred loaders for this purpose was done with a view to reducing noise. • Noise risk is considered in the design of Hillgrove's daily work plans. Work plans consider the potential risks on particular days from weather conditions, the nature of mine activities and scheduling. These areas discussed with workers at daily tool box meetings (muster) at the change of shifts. • Particular investigations into 'night noise' were conducted and reported at the June 2015 KCCCC meeting |
| Vibration | <p>The community expects:</p> <ul style="list-style-type: none"> • to be kept informed about potential vibration events like blasting • that impacts of vibration from predicable | <ul style="list-style-type: none"> • Blasting impact monitors have been installed on the mining lease and data collected for each blast. • The mine has worked with a local resident using monitoring equipment to provide accurate data on blasting impacts at this location. This information has been used to inform the blasting process with a view to minimising potential |

DRAFT

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| | <p>causes like blasting are minimised</p> <ul style="list-style-type: none"> any vibration caused by blasting and other activities at the mine is managed to a level at which there is no damage to property. | <p>vibration.</p> <ul style="list-style-type: none"> Modifications to blasting techniques have been implemented for the lower benches of the main pit (Kavanagh) in response to a greater risk of conducting vibration towards Kanmantoo residents through natural rock structures in this area. Hillgrove provided a presentation on blasting initiatives for the KCCCC at June 2014 meeting. |
| Traffic | <p>The community expects that any increase in local traffic due to the mine will:</p> <ul style="list-style-type: none"> not result in additional safety risk not cause undue inconvenience for other road users | <ul style="list-style-type: none"> The mine has a Traffic Management Plan The mine has invested in a dedicated private access road (byu-pass road) that reduces the need for trucks or other vehicles to use local access roads (often unmade roads) to the mine site Mine workers and visitors are instructed to use the by-pass road The mine has supported a culture of strictly adhering to speed limits and being proactive and aware of dust risk from road vehicles in particular through education and information programs for workers , contractors and suppliers |
| Light | <p>The community expects that:</p> <ul style="list-style-type: none"> night time mine lighting and traffic movements will not result in light spill that negatively impacts on the amenity of nearby residents | <ul style="list-style-type: none"> Strategically positioned burms have been designed to manage any potential mobile traffic light spray Lighting is on the mine site that includes light shields and sharp directional light potential to reduce the risk of light spill. |

DRAFT

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Topic 2: Natural environment

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| <p>Unique natural communities</p> <p>At risk or endangered flora and fauna</p> | <p>The community expects that the company will:</p> <ul style="list-style-type: none"> proactively work to identify and conserve natural communities where possible. In particular give consideration to high quality communities of at-risk and endangered species like the area of Euc Odorata to the north of the main pit and the Lomandra effusa to the south of the mine. avoid the area of Euc Odorata to the north of the main pit. The community believes that there was an agreement struck between the company and the community that the area of Euc Odorata to the north of the pit would be avoided in mining plans. The community expects that this agreement will be honoured. | <ul style="list-style-type: none"> Hillgrove agreed that that the area to the north of the main pit (which is shaped like a finger and known as Matthew) will not be disturbed. Mention of this area was subsequently removed from Hillgrove’s application for a mine life extension (2014) and its revised PEPR. |
| <p>Habitat loss and environmental degradation</p> | <p>The community expects that the company will:</p> <ul style="list-style-type: none"> respond to habitat loss through its rehabilitation, native vegetation and Significant Environmental Benefits (SEB) programs in a way that promotes continuity, scale, timeliness and viability in future habitat development assist the community where possible in addressing historical habitat loss and environmental degradation (eg from previous mining operations) in on-going rehabilitation, community projects and mine closure and completion planning | <ul style="list-style-type: none"> During the original approvals process, the KCCCC sought SEB programs to be delivered in and around the mine site rather than paying into the Native Vegetation Fund. Hillgrove agreed to develop an SEB program in and around the mine site The importance of high environmental value natural populations has been identified. The mine has been encouraged to consider these priorities in its rehabilitation, native vegetation and Significant Environmental Benefits (SEB) programs. This has been extended to include alignment with KCCCC Master Planning process. Three maps have been drawn from the mine’s Mine Closure and Completion Plan (MCCP) to show the Significant Environmental Benefit (SEB), rehabilitation, final landscaping and other programs of work on the mining lease and nearby area. The three maps enable the community to understand the plans, provide input as appropriate and track the progress of the implementation. |

DRAFT

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| | | <ul style="list-style-type: none"> • The mine has established and manages a propagation centre and seed bank on site. • Trials of rehabilitation techniques have been conducted by the mine such as the NW Woodland Rehabilitation Project. Results of trials have been used to inform the rehabilitation and native vegetation / SEB programs under the MCCC. The native vegetation program, approved as part of the PEPR, involves commencing SEB work to coincide with any disturbance of vegetation. • A project is being developed by the Master Planning Working Party aimed at encouraging access for the wider community to the experience and resources of the propagation centre to support similar rehabilitation programs in the wider community. |
| Data and local knowledge | <p>The community expects:</p> <ul style="list-style-type: none"> • to see that the overall environmental programs of the mine will add value to the community and leave a positive legacy by accurately documenting flora and fauna to produce a meaningful longitudinal data set from surveys • that a valuable bank of knowledge and experience in environmental programs will be developed over time by Hillgrove and made available where appropriate to support wider community understanding and on-the-ground projects. • to see consideration given to the potentially for other species still not recorded in the areas proposed for clearance to be identified from surveys. | <ul style="list-style-type: none"> • Flora and fauna surveys have been conducted regularly since 2005 to better understand the natural environment. The methodology used in these surveys is designed to ensure that data is accurate, valid and consistent with longitudinal data sets. • Initiatives such as seed collection and animal rescue have become part of the routine practice for the mine. • An ongoing collection of survey data is a feature of the work of the propagation centre and seed bank in conjunction with the very active local Landcare group. • Survey information is also used by the mine to assist with seed collection and other management programs to promote the integrity of the flora gene pool. • A number of small scale community benefit projects have been suggested by the KCCCC Master Planning Working Party. Data and information from the mine’s experience with rehabilitation programs are seen as useful to support these projects. • A project is being developed by the Master Planning Working Party aimed at encouraging access for the wider community to the experience and resources of the propagation centre to support similar rehabilitation programs in the wider community. |

DRAFT

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Topic 3: Mine closure and completion

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| Mine Closure and Completion Plan <ul style="list-style-type: none"> • rehabilitation • decommissioning • completion | The community expects that: <ul style="list-style-type: none"> • there will be sufficient securities held by the Regulator to ensure that the agreed rehabilitation and closure / completion program for the mine site can be guaranteed | <ul style="list-style-type: none"> • The SA Mining Regulator holds a cash bond for this purpose |
| Environmental integrity | The community expects that: <ul style="list-style-type: none"> • engineered structures like the tailing dam's liner will be upgraded as required to manage any changes to load that may arise from changes to mining operation | <ul style="list-style-type: none"> • Construction at the Tailings Storage Facility (TSF) is currently raising the height of the walls by four (4) metres. There are another two 4m 'lifts' to follow before the TSF reaches its final height. The specifications for this facility were approved by the mining Regulator as part of the revised PEPR adopted following the mine life extension approval in July 2014. |
| Final landform <ul style="list-style-type: none"> • design • construction | The community expects: <ul style="list-style-type: none"> • to be kept informed about what the final landforms for the rehabilitated mine site will look like and involved through the mine closure planning process. | <ul style="list-style-type: none"> • Hillgrove has prepared and presented information on final landforms and 'side by side' comparisons of the original proposed final landforms with those that may arise from a proposed mine life extension. |
| Infrastructure legacy | The community expects: <ul style="list-style-type: none"> • to be involved in the on-going development / review of the Mine Closure and Completion Plan in order to develop an understanding, contribute useful local knowledge and make suggestions as to how the Plan may deliver sustainable, long term community benefit. • that infrastructure developed specifically for the mine such as transport, energy, communications, water and waste facilities are decommissioned by the company with | <ul style="list-style-type: none"> • The KCCCC Master Planning process is a forum where opportunities for community benefit from legacy infrastructure can be raised with the mine for potential alignment with the Mine Closure and Completion Plan. • The Master Planning process promotes the on-going identification of possible smaller scale community projects which could be delivered in the shorter term. Examples include: <ul style="list-style-type: none"> – encouraging local landowners to work with the mine to transfer experience with rehabilitation programs and access resources like their seed bank and propagation centre to develop a network of rehabilitated sites that would support communities of flora and fauna – supporting the Kanmantoo Callington Landcare Group in their project to develop a Butterfly Garden / Children's Nature Park next to the Callington |

DRAFT

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| | <p>due consideration to the potential for community benefit once mining is concluded.</p> | <p>Community Hall</p> <ul style="list-style-type: none"> – revamping the current school bus pick up area at the intersection of Mine Rd and Princess Hwy to create a larger shelter to accommodate local students as well as a designated bus pull off area where students could get on and off buses more safely – planting out of roadsides with native vegetation along the length of Proctor Road, Mine Road and along the Old Princess Highway – planting trees to provide shade in summer and an outer boundary at the Kanmantoo Bike Park as well as adding a BBQ and seating area for families – creating a fully fenced, off-leash Dog Park on the vacant reserve area near the beginning of Mine Road <ul style="list-style-type: none"> • A project was submitted to the Fund My Idea initiative of State Government to assist the community to upgrade the school bus shelters and ‘bus pull off’ zones in Kanmantoo and Callington. The bid was unsuccessful. • The representative of DSD (state government mining Regulator) on the working party has looked into the potential challenges and likely support from government agencies for community enhancement programs like using mine waste rock to rehabilitate eroded swales in the area. • the suggestion has been made that roadside planting with native vegetation could include Council road reserves. <ul style="list-style-type: none"> – DCMB has provided a map of the unmade road reserves in the area. It may be possible to include some road reserves in the master planning process with agreement of Council and relevant local landowners to facilitate walking trails and create a green belt with habitat corridors as well as opportunities for bush fire mitigation through the design. |

DRAFT

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Topic 4: Community benefit

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| Economy and jobs | <p>The community expects that the company will:</p> <ul style="list-style-type: none"> • support local and regional communities through appropriate employment policy that recognises the benefits of employing people who live nearby the mine without compromising fair, equitable and legal employment practices aimed at identifying the best available person for the job • support local and regional businesses through appropriate procurement policy that recognises the benefits of buying locally without compromising commercial good practice | <ul style="list-style-type: none"> • As of 30th June 2015, there were 260 employees at the mine with 73% employed directly by Hillgrove and the rest through contractors involved in maintenance and drilling. <ul style="list-style-type: none"> – Of those employed directly by Hillgrove, 74% lived either in the local Kanmantoo Callington area (less than 5 kilometres from the mine) or in the Adelaide Hills region (less than 25 kilometres from the mine). – Since operations commenced there has been over \$20 million of work directed to local and regional businesses with up to 85 suppliers and contractors involved. – The employment policy of Hillgrove acknowledges the benefits of employing local people and using local services and product suppliers. |
| Local community development | <p>The community expects that the company will behave as an interested and engaged member of the community and as far as possible:</p> <ul style="list-style-type: none"> • support local community projects • support local events • support local organisations like <ul style="list-style-type: none"> – local school – sporting clubs | <ul style="list-style-type: none"> • Hillgrove sponsors local community groups such as the Bridgewater Callington Raiders Football Club and the Bremer/Callington Cricket Club. • Hillgrove supports community events including the Callington Show and Callington Christmas Pageant. • Hillgrove receives a large number of requests for site visits but has limited resources to host these. Whenever possible Hillgrove accommodates requests from small groups of students who are studying mining related subjects at University or TAFE. Recent groups include Adelaide University, Geoscience Summer School, AUSEG and AUSIMM groups. |
| Building relationships | <p>The community expects that the company will:</p> <ul style="list-style-type: none"> • support the KCCCC Master Planning process with a view to identifying where the Mine Closure and Completion Plan may support positive community outcomes • support links with organisations who have a | <ul style="list-style-type: none"> • A KCCCC Working Party has been formed to promote the development of a Master Plan for the Kanmantoo Callington area with a particular focus on on-going rehabilitation of the mining lease, native vegetation programs and mine closure. The overall aim is to encourage the mine to consider community priorities for a sustainable future for the area in its mine closure and completion plan. • The Working Party is keen to involve the whole community in this initiative. A |

DRAFT

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| | <p>role in the future of the area after mining is concluded like</p> <ul style="list-style-type: none"> – local community groups including Landcare – local Councils involved in strategic planning – local Councils involved in development planning like DPA’s for tourism or rural pursuits – educational and research institutions – the tourism industry – State Government agencies like PIRSA, DSD and DEWNR <ul style="list-style-type: none"> • support the community in seeking benefits as a result of the state government royalties collected from the mine as well as the day to day operations of the mine | <p>Discussion Paper was produced aimed at identifying the likely drivers and priorities for community development, the strengths of the area and potential concept plans.</p> <ul style="list-style-type: none"> • This initiative coincides with the District Council of Mt Barker’s review of its Strategic Plan which is seen by the KCCCC as an essential alignment necessary to deliver community priorities for the future of the area. • A visual representation of a possible future landscape for the area is being produced along with a draft Master Plan |
| <p>Promotion</p> | <p>The community expects the company to:</p> <ul style="list-style-type: none"> • build a list of examples of leading practice to help promote the area with flow on benefits to the community like supporting land values • promote the Kanmantoo Callington area wherever possible as a great place to live and work • support the local community as a responsible member of that community | <ul style="list-style-type: none"> • Hillgrove supports as is a member of the Kanmantoo Callington Community Consultative Committee (KCCCC) • Hillgrove has implemented various policies that recognise the value of the local community including employing locally, sourcing local suppliers and supporting local organisations and events (some examples shown above under ‘Community Development’) |