



MINUTES OF MEETING TERALBA QUARRY COMMUNITY CONSULTATIVE COMMITTEE (CCC)

DATE: Wednesday 5th May 2021

MEETING COMMENCED: 5.09pm

**A site inspection was held prior to the meeting, commencing at 3.40pm. All attendees were inducted into the site and provided appropriate PPE equipment. Members viewed the workshop, banded oil storage containers, electrical upgrade of crushing/processing plant, structural upgrade to conveyor supports, rehabilitation areas, blasting/current operations area.*

The project presentation forms as an attachment to these minutes.

PRESENT:

Member Name	Organisation
Margaret MacDonald-Hill (MMH)	Independent Chairperson
Colin Wright (CW)	Community Representative
Richard Metcalf (RM)	Teralba Public School
Mo Yunusa (MY)	Metromix
Darryn Bosch	Metromix

IN ATTENDANCE:

Name	Organisation
Lisa Andrews	Independent Minute Taker

APOLOGIES:

Cr Wendy Harrison (WH)	Lake Macquarie City Council
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ITEM	ACTION
1.0 Welcome and Introductions MMH opened the meeting at 5.09pm, welcomed those present and thanked MY for organising the site tour.	
2.0 Declaration of Interest MMH advised that she was appointed by the Secretary of the Department of Planning, Industry and Environment (DPIE) as the Independent Chairperson for Teralba Quarry.	No changes to members' previously made declarations
3.0 Confirmation of Previous Minutes MMH asked that the previous minutes of Wednesday 6 May 2020 be confirmed.	Moved: CW Seconded: RM

ITEM	ACTION																																																			
<p>4.0 Business Arising from Previous Minutes</p> <p>MY advised that the 2019 Annual Environmental Review was uploaded to the website. CW enquired how exceedances were determined in relation to blasting. MY explained the criteria set by EPA & DPIE. Explaining that the blasting contractor has since been replaced.</p>																																																				
<p>5.0 Correspondence</p> <p>As per meeting notice sent 21/4/21.</p>																																																				
<p>6.0 Reports/Updates</p> <p>6.1 Sales – 455,229 tonnes</p> <p>6.2 21 Blasts</p> <p>6.3 Community Complaints:</p> <p>Two community complaints were received in 2020.</p> <p>i) On 23/01/2020 the EPA received a complaint from a member of the public advising of excessive dust generation observed whilst driving along Rhondda Road. The EPA notified Metromix of this complaint via email on 04/02/2020. Metromix responded to the EPA on 11/02/2020 advising that the internal investigation into the matter had determined that on the day of the complaint, Metromix executed all the available dust suppression controls available at that time. There were no unusual circumstances that occurred on the day of the complaint that would have caused excessive dust generation. Supporting documents were also forwarded to the EPA which showed the use of the watercart and the weather conditions on the 23rd of January 2020. To date Metromix has not received a response from the EPA.</p> <p>ii) On 12th November 2020 a member of the public contacted Metromix and lodged a complaint in regard to the amount of truck movements going through the intersection of Rhondda Road and Railway Street. The complainant advised there was an apparent increase in truck noise levels and that truck movements can be heard from 5:30am. Metromix conducted an investigation into the matter, which indicated that truck movements from the last two months had all been within the approved limits and responded to the complainant in writing the next day providing them with a copy of PA 10_0183, the 2020 noise monitoring report, and the October and September truck movement records.</p> <p>MY advised that Metromix have written to Council and NSW Police providing them with a copy of the project’s approved Traffic Management Plan, which shows the traffic route.</p> <p>6.4 Non Compliances from May 2020:</p> <p>A heavy rain event occurred at the Quarry between the 25th to the 28th of July 2020. The rainfall was such that overflow of Dam B was recorded over five consecutive days and the level of rainfall had caused a high volume of runoff to enter the Quarry water management system. The below table presents a summary of the rainfall recorded and water monitoring outcomes during the period with monitoring undertaken during all days when discharge from Dam B was observed.</p> <table><tr><th></th><th>Units</th><th>Criteria</th><th>26/7</th><th>27/7</th><th>28/7</th><th>29/7</th><th>30/7</th><th>31/7</th></tr><tr><td>Rainfall</td><td>mm</td><td>N/A</td><td>129.4</td><td>16</td><td>18</td><td>-</td><td>-</td><td>-</td></tr><tr><td>pH</td><td></td><td>6.5-8.5</td><td rowspan="4">Not Sampled</td><td>6.91</td><td>6.93</td><td>6.9</td><td>6.92</td><td>6.89</td></tr><tr><td>Electrical Conductivity</td><td>µS/cm</td><td>125-2200*</td><td>792</td><td>701</td><td>692</td><td>730</td><td>809</td></tr><tr><td>Total Suspended Solids</td><td>mg/L</td><td>50</td><td>71</td><td>60</td><td>55</td><td>41</td><td>40</td></tr><tr><td>Oil & Grease</td><td>mg/L</td><td>10</td><td>10</td><td>7</td><td><5</td><td><5</td><td><5</td></tr></table> <p>* Criteria based on ANZG 2018 Guidelines all other criteria from EPL 536</p>		Units	Criteria	26/7	27/7	28/7	29/7	30/7	31/7	Rainfall	mm	N/A	129.4	16	18	-	-	-	pH		6.5-8.5	Not Sampled	6.91	6.93	6.9	6.92	6.89	Electrical Conductivity	µS/cm	125-2200*	792	701	692	730	809	Total Suspended Solids	mg/L	50	71	60	55	41	40	Oil & Grease	mg/L	10	10	7	<5	<5	<5	
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<p>Metromix reported this exceedance to the EPA and DPIE and received a response from the DPIE on 24/08/20 advising that no further action will be taken.</p> <p>November monthly water grab sample at EPA Point 4 was missed (M2.3). There was a change of personnel in the Leading Hand role and during the handover period the required monthly grab sample was not done. The December water grab sample was successfully tested and the results came back within the specified criteria. Metromix reported this non compliance to the EPA and DPIE and received a response from the DPIE on 11/01/21 advising that this event must be included in the Annual Review and no further action will be taken.</p> <p>6.6 On Going Monitoring:</p> <p>(i) Water Management Plan <i>(Reviewed and approved in December 2020)</i></p> <p>(ii) Air Management Plan</p> <p>(iii) Noise Management Plan</p> <p>(iv) Blasting Management Plan <i>(Reviewed and approved in December 2020)</i>; and</p> <p>(v) Transport Management Plan.</p> <ul style="list-style-type: none">• Water Monitoring (EPA 4 Discharge Point) results.• Water Monitoring (EPA 5 Discharge Point) results.• Air Monitoring (Deposited Dust) results.• Air Monitoring (Particulate Matter 10 PM₁₀)• Noise Monitoring: Noise monitoring was conducted during daytime, evening, shoulder and night periods between 12 August 2020 and 18 August 2020 at monitoring locations EPL-A, B, D, E and H by Spectrum Acoustics. The results of the attended noise monitoring surveys identified that noise from the Quarry was generally inaudible in the local setting. Noise emissions did not exceed the relevant criterion at any monitoring location during any part of the surveyed time period. It is noted that the results of operational noise monitoring during 2020 are consistent with results recorded from 2015 to 2019, indicating that the Quarry remains generally inaudible in the local setting.• Blast Monitoring results.• Transport Monitoring: <table><thead><tr><th></th><th>YTD March 2021</th><th>LYTD March 2020</th><th>Total 2020</th></tr></thead><tbody><tr><td>Sales (kt)</td><td>139</td><td>100.9</td><td>455.2</td></tr><tr><td>Production (kt)</td><td>117.7</td><td>97</td><td>468.3</td></tr><tr><td>Truck Movements</td><td></td><td></td><td></td></tr><tr><td>East through Teralba</td><td>2056</td><td>1622</td><td>7719</td></tr><tr><td>West – Rhondda Rd</td><td>3841</td><td>2829</td><td>13922</td></tr><tr><td>TOTAL</td><td>5897</td><td>4451</td><td>21651</td></tr></tbody></table> <p>6.7 Lower Level Management Plans, managed by Mining Operation Services.</p> <p>6.8 Ongoing Rehabilitation and Weeding Program</p> <p>A total of 902.5 hours were worked by T.E.N.T.A.C.L.E. staff performing environmental restoration and bush regeneration activities during 2020. A variety of weed control methods were used including the removal of target weed species through both manual and chemical controls such as cut/scrape and paint or splatter gun application of herbicide, hand removal or seed head removal. During 2020 a total of 1,634 native trees, shrubs and grasses were planted in the western portion of the Quarry along completed benches and completed silt cells.</p>		YTD March 2021	LYTD March 2020	Total 2020	Sales (kt)	139	100.9	455.2	Production (kt)	117.7	97	468.3	Truck Movements				East through Teralba	2056	1622	7719	West – Rhondda Rd	3841	2829	13922	TOTAL	5897	4451	21651	<p>See Slide No. 8 See Slide No. 9 See Slide No.10 See Slide No.11</p> <p>See Slide No.13</p> <p>See Slide No. 15</p>
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<p>8 Nesting Box Monitoring Program</p> <p>Nesting boxes were inspected on 24th September 2020 by Echo Ecology and Surveying. An additional 11 nesting boxes were installed as required under a commitment relating to vegetation clearing for the approval for the powerline relocation. These boxes have now been included as part of the annual nesting box monitoring program. Below is a summary of 2020's monitoring survey:</p> <ul style="list-style-type: none"> • None of the target species (Squirrel Gliders, Little Lorikeets or microbats) were observed in the nesting boxes during the inspection. • One of the nesting boxes was recorded as being occupied by Sugar Gliders with 2 other nesting boxes containing either Sugar or Squirrel Gliders (could not be confirmed). • A further 28 nesting boxes contained leaves with depressions like those created by Sugar Gliders, indicating that these boxes are used by Sugar Gliders for sheltering. • A total of 7 boxes had leaves present (but no defined nest) indicating that animals had visited the nesting boxes. • Ants were found in 2 of the boxes. • Termites were found in another 2 of the boxes. • No feral honey bees were observed. <p>CW enquired about the nesting boxes (size, targeted species, etc). MY explained that they were erected to replace hollow trees that were removed as part of the operational requirements and in accordance with ecological obligations.</p> <p><i>Good outcome – most boxes are being used by the target species.</i></p> <p>9 Extraction</p> <p>In 2020 approx. 630,746t was extracted of which approx. 99,591t was overburden material.</p> <p>10 Rehabilitation</p> <p>During 2021 a total of 1.17Ha of seed mix and 1,260 plants were planted in the south western portion of the Quarry on top of capped silt cells.</p> <p>2020 Annual Environmental Review – was submitted to DPIE on 30/3/21. Awaiting a response from DPIE prior to uploading to the Metromix website.</p> <p>EPA 536 Variation –</p> <p>Metromix requested a variation on 23/06/2020 to condition M2.3, Point 5 to allow a grab sample once within 12 hours of discharge. This variation was approved on the 9th of September 2020. An updated Water Management Plan was submitted to the DPIE and approved in December 2020. The EPA conducted a licence integrity review on 17th November 2020 with the purpose of assessing the appropriateness of the licence. The review concluded that several changes to licence conditions were required for transparency and to reflect current operations. On the 18th February 2021 Metromix requested a variation to have noise monitoring points 14 and 17 removed from EPL 536. The EPA approved this variation on 24/03/21.</p> <p>Electrical Upgrade</p> <ul style="list-style-type: none"> * Upgraded the existing Plant Motor Control Centre architecture and installed a new PLC system in the control tower. (Cost \$490k) * Installed remote switching and field full current lockout devices. (Cost \$99k) * Installed a second hydraulic pump and connections for the Pug Mill. (Cost \$15k) 	<p>See Map on Slide No. 16</p> <p>List of species plants available on Slide No. 18 Photos of rehabilitation shown on Slide No's: 19-28</p>

ITEM	ACTION
<p>* The existing Plant Motor Control Centre architecture was outdated. This upgrade achieved a level of functional safety by using extra low voltage field control circuits, prestart alarms and sequenced automatic starting/stopping.</p> <p>* Installing remote switching and field full current lockout devices addressed existing arc flash issues and provided a more robust and safe method of isolation/lockout.</p> <p>* Installing a second hydraulic pump and connections for the Pug Mill was part of the PLC and SCADA system that was installed in 2019.</p> <p>CW asked if Metromix was an Australian Company. MY advised that Metromix was an Australian business, part owned by Hanson (a German company) and Holcim (a Swiss company). CW further enquired whether it was better to obtain components from Germany instead of China. MY explained that COVID-19 made it difficult to source materials and also that the company needed to consider the budget costs for the upgrades.</p> <p>Structural Upgrade</p> <p>* Structural Engineer deemed the span lengths of some conveyors were too long and did not meet Australian Standards.</p> <p>* Installed additional trestles to conveyors 1, 2, 3, 5, 7, 10 and 11.</p> <p>Power Line Relocation</p> <p>Two sets of power lines owned by Ausgrid traversed the Teralba Quarry Southern Extension Area, being:</p> <p>(a) the 33kV transmission line traversed the site but was not used by Metromix; and</p> <p>(b) the 11kV transmission line which connected to a small onsite substation and supplied Downer EDI and the Metromix offices, water supply pump and processing plants.</p> <p>The scope of the project required clearance of vegetation to create 20 m easements for the new power lines. The construction works required the removal of 26 poles, replacement of 17 existing power poles and the installation of 49 new power poles.</p> <ul style="list-style-type: none"> • Deviated from Mine Plan in 2019 to mine Stage 2A ahead of schedule to compensate for the power lines • Redundant power lines were removed in late September 2020 • New haul road was required to access Stages 1C and 2B. The new road was designed to the Resources Regulator guidelines and risk assessed before construction commenced. <p>Stage 1C</p> <ul style="list-style-type: none"> • Stripping campaign was put out to tender • Awarded the contract in early October and stripping commenced in late November • Stripping campaign concluded in early February with approximately 78,174t (48,859m³) of overburden removed • First blast in Stage 1C was done in April 2021. 	<p>Photographs shown on Slide No. 33</p> <p>Photographs shown on Slide No. 35</p> <p>Maps of relocation and new Haul Road shown on Slide No's. 38 - 44</p>
<p>7.0 General Business</p> <ul style="list-style-type: none"> ○ MMH acknowledged the contribution that Cr Wendy Harrison had made to this CCC. Cr Harrison has advised that she will not be seeking re-election in the Local Government elections in September. CW asked whether LMCC would provide another delegate. MMH advised that Council should nominate another representative, following the election results. Likely to be in October 2021. ○ MMH informed the CCC that she was stepping back from her current work commitments, advising that this would be her last meeting as Independent 	<p>Agreed - MMH to write to Cr Harrison, thanking her for her contribution on this CCC.</p>

ITEM	ACTION
Chairperson. MMH recommended LA to take over the role, given her involvement in this CCC and project since 2018. MMH spoke to WH who concurred, advising members that LA is an approved Independent Chairperson with DPIE and suitably qualified. Members endorsed the recommendation.	MMH to write to DPIE requesting change in IC.
8.0 Next Meeting It was agreed to continue to hold annual meetings proposed for Wednesday 4 May 2022 to be held at Teralba Public School.	Agreed.

Meeting closed at 5.50pm

MMH thanked all members for their participation and wished them well in their future endeavours.

Action Items

Item	Description	Responsibility
1	Write to Cr Harrison thanking her for her contribution on the CCC	MMH
2	Write to DPIE requesting change in Independent Chairperson on this CCC	MMH