



**MINUTES OF MEETING
TERALBA QUARRY
COMMUNITY CONSULTATIVE COMMITTEE (CCC)
VIA TELECONFERENCE***

DATE: Wednesday 6 May 2020

MEETING COMMENCED: 4.09pm

**Due to the COVID-19 pandemic, this meeting was conducted via teleconference (GoToMeeting). The presentation was emailed to all cc members on Friday 1 May 2020, prior to the scheduled meeting date, together with the teleconference log-in details.*

The subject presentation forms as an attachment to these minutes.

PRESENT:

Member Name	Organisation
Margaret MacDonald-Hill (MMH)	Independent Chairperson
Colin Wright (CW)	Community Representative via telephone link
Richard Metcalf (RM)	Teralba Public School via video link
Cr Wendy Harrison (WH)	Lake Macquarie City Council via video link
Mo Yunusa (MY)	Metromix via video link
Tony Zoitsas (TZ) - Guest	Saros International Pty Ltd via video link

IN ATTENDANCE:

Name	Organisation
Lisa Andrews	Independent Minute Taker via video link

APOLOGIES:

Janelle Kerr	Metromix
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ITEM	ACTION
1.0 Welcome and Introductions MMH, opened the meeting at 4.09pm, welcomed those present and thanked them for participating in the CCC via this forum. MY introduced TZ from Saros International, who is a blasting expert engaged by Metromix to assist with its onsite blasting activities.	MY introduced TZ and provided some background.
2.0 Declaration of Interest MMH advised that she was appointed by the Secretary of the Department of Planning, Industry and Environment as the Independent Chairperson for Teralba Quarry.	No changes to members' previously made declarations

ITEM		ACTION						
3.0 Confirmation of Previous Minutes MMH asked that the previous minutes of Wednesday 8 May 2019 be confirmed.		Moved: WH Seconded: RM						
4.0 Business Arising from Previous Minutes Nil.								
5.0 Correspondence As per meeting notice sent 22/4/20 with one additional item: 28/4/20 – CCC Annual Report 2020 to DPIE.		MMH offered to send copy of AR to members if requested.						
6.0 Reports/Updates 6.1 Sales - 2019 – 479,439 tonnes 6.2 17 Blasts 6.3 Continued financial support of Teralba Primary School, the Teralba Bowling Club and the Variety Bash. Metromix sponsored one annual event at the Teralba Bowling Club and donated over \$12,000 to the Teralba Public School. Metromix also supported the Variety Club Bash. 6.4 Community Complaints: Nil for 2019. One community complaint for 2020. On the 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 and advised the following: An internal investigation into the matter had concluded and had determined that on the day of the complaint Metromix executed 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 23/1/20. Metromix quarry management had communicated this complaint and investigation to its work group and would continue to monitor dust generation and execute dust suppression control measures during production activities. To date Metromix has not received a response from the EPA. 6.5 Non Compliances 2019: <table border="1" data-bbox="256 1384 1270 2020"> <tr> <td>November</td><td>PM₁₀ 24Hr exceedance. On the 22nd and 28th of November. The high volume air sampler recorded a reading of 92µg/m³ and 70µg/m³ respectively, which is greater than the 24hr max criteria of 50µg/m³</td><td>During the month of November the Teralba area was exposed to a considerable amount of bush fire smoke over a period of several weeks. It was concluded that the bush fire smoke in the atmosphere caused the PM₁₀ 24hr exceedance and not a result of activities from Metromix Teralba Quarry.</td></tr> <tr> <td>December</td><td>Deposited dust monitoring showed an exceedance of the EPA Approved Level for Total Insoluble Solids at the Rodgers St sampling point on the 2nd December.</td><td>When the dust bottles were collected the sample taker observed that the home owner had completed some</td></tr> </table>		November	PM ₁₀ 24Hr exceedance. On the 22nd and 28th of November. The high volume air sampler recorded a reading of 92µg/m ³ and 70µg/m ³ respectively, which is greater than the 24hr max criteria of 50µg/m ³	During the month of November the Teralba area was exposed to a considerable amount of bush fire smoke over a period of several weeks. It was concluded that the bush fire smoke in the atmosphere caused the PM ₁₀ 24hr exceedance and not a result of activities from Metromix Teralba Quarry.	December	Deposited dust monitoring showed an exceedance of the EPA Approved Level for Total Insoluble Solids at the Rodgers St sampling point on the 2nd December.	When the dust bottles were collected the sample taker observed that the home owner had completed some	
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	<p>The limit is 4g/m²/month and a level of 7.8g/m²/month was recorded.</p>	<p>earthworks around the sample point using a mini excavator. The home owner had removed the ground cover surrounding the sample point, also there was significant smoky conditions present due to surrounding bush fires on the 2nd of December.</p>	
<p>An independent audit was conducted in February 2020 by an auditor approved by the department. The audit identified some non-compliances that were all administrative in nature. These non-compliances are described below:</p> <ul style="list-style-type: none"> Noise reports had not been submitted to the EPA within 30 days of completion of noise monitoring. <i>Noise monitoring reports that were not provided to the EPA have now been provided and have been reported in the Annual Review.</i> The rehabilitation bond had not been submitted to DPI&E within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan. <i>An estimate of the quantum of the Rehabilitation Bond for the Quarry was submitted to DPIE for approval on 17 February 2020. It was acknowledged that there was a period where the Rehabilitation Bond was not current. Metromix currently has a bank guarantee held by DPIE for rehabilitation of the Teralba Quarry. That bond is for a value of approximately \$1.6 million. Therefore, during the period when the bond was not current there was a bond that may have been called upon by DPIE.</i> All management plans had not been submitted to the Secretary within 3 months of modification of the conditions of approval. The Air Quality Management Plan, Blast Management Plan, Traffic Management Plan, Water Management Plan and Environmental Management Strategy had not been submitted within the required timeframe. <i>All management plans for the Teralba Quarry have been submitted and approved by DPIE. It is noted that lengthy delays were experienced in receiving feedback from Lake Macquarie City Council due to staff change over during the update of management plans for the Quarry.</i> <p>WH enquired with MY what the delay had been with receiving documentation back from LMCC with MY confirming that it was the rehabilitation bond and management plans that had been submitted for review with the roads section.</p> <ul style="list-style-type: none"> Records of complaints did not always include the information as required by EPL 0536 M5.2. Records of noise complaint in April 2018 did not include date and time or details of the complainant (EPL Condition M5.2). <i>A more detailed summary of the complaint received, and actions taken will be placed on the Metromix website to ensure compliance with Condition M5.2 of EPL 536.</i> The EPA had not been informed in writing of the appointment of the new Quarry Manager as the site contact person (EPL Condition G2.2). <i>Metromix liaise with officers from the EPA on a regular basis. The Quarry Manager has</i> 			

ITEM	ACTION
<p><i>also recently been providing information to the EPA regarding a proposed variation to EPL 536. It is therefore considered that the EPA is aware of the change to the responsible person for the Quarry that occurred during the reporting period. It is acknowledged that this change was not notified in writing. Correspondence formally notifying the EPA of the responsible person for EPL 536 was provided to the EPA on 5 February 2020.</i></p> <ul style="list-style-type: none"> <i>Dust deposition monitoring result was not available for site EPL04 in January 2019. Access to the property where dust gauge EPL04 was sited was denied by the resident. As a result, no monitoring data was available for EPL04 for January 2019. The dust gauge has been relocated to an alternative location. No further action required. (York St Primary School - now able to access.)</i> <i>The DPIE advised Metromix on the 24/04/2020 that it's satisfied with the response to the independent audit. A copy of the audit report is available for viewing on the Metromix website.</i> <i>Exceedance of the 120dBI overpressure criteria occurred on 13/02/20 during blasting activities in the southern extraction area. An overpressure reading of 122.3dBI was recorded at the back gate monitoring point. Metromix conducted an investigation into the exceedance and determined that the cause was due to blast design parameters and environmental conditions. Key factors that contributed to the exceedance were:</i> <ul style="list-style-type: none"> <i>Steep sloping ground with insufficient burden.</i> <i>Conglomerate rock types have a higher degree of surface expression and no drillers logs were available for review</i> <i>Overcast low cloud conditions.</i> <i>Holes lost along the control row due to a prior rain event allowed timing of the shot to be reinforced at the monitor.</i> <i>A monitor was in the incorrect location (approx. 160m closer to the blast).</i> <i>If monitor was in the correct location then mathematical modelling suggested that the over pressure would have been under the maximum criteria of 120dBI.</i> <p><i>Additional considerations have been implemented into the blast contractors blast design procedures to mitigate against an exceedance re-occurring.</i></p> <i>Exceedance of the 115dBI overpressure criteria occurred on 16/03/20 during blasting activities in the southern extraction area. An overpressure reading of 116.3dBI was recorded at the back gate monitoring point. Metromix conducted an investigation into the exceedance and determined that the cause was due to blast design parameters. Key factors that contributed to the exceedance were:</i> <ul style="list-style-type: none"> <i>Excessive surface expression due to insufficient containment of explosive energy and incorrect or bridged stem decks.</i> <i>A high level meeting was held with the blasting contractor on 18/03/2020. The blasting contractor conducted a separate review into the systems and procedures. The outcome from this review was the implementation of the following changes:</i> <ul style="list-style-type: none"> <i>* All blasts to be classed as Class 5 which requires involvement from a tech services representative.</i> <i>* Re-auditing of all Shotfirers and Surveyors by an independent auditor.</i> <i>* Creating a standardised Site Information Sheet (SIS) for the site.</i> <i>*Implementation of a formalised blast design review and departure process.</i> 	

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<ul style="list-style-type: none">Exceedance of the 115dBI overpressure criteria occurred on 25/03/20 during blasting activities in the southern extraction area. An overpressure reading of 115.7dBI was recorded at the back gate monitoring point. <i>Metromix conducted an investigation into the exceedance and determined that the cause was due to blast design parameters. Key factors that contributed to the exceedance were:</i><ul style="list-style-type: none"><i>Acceleration of the face at the point of initiation and insufficient burden for hole A55.</i><i>The blasting contractor has implemented the following recommendations:</i><ul style="list-style-type: none"><i>Reducing the product density from 1.2g/cc to 1.15g/cc thereby reducing the powder factor.</i><i>Increasing the minimum and target face burden by 0.3m.</i><i>Reviewing environmental conditions and blast parameters on the day and consulting with quarry management if adverse conditions are forecast.</i> <p>WH commented that Metromix had conducted a thorough investigation and resolved the problem, so hopefully this would not happen again. MY advised that he had contacted the nearest neighbour following the incident. The neighbour informed him that they had heard the blast, but no damage had occurred. MY confirmed that damage would usually only occur at 140-150dBI.</p> <p>TZ put these details in context, explaining different frequency levels in terms of what could be heard by the human ear. He also explained on the ground vibrations as well as overpressure.</p> <p>TZ confirmed that the blasts must be designed to comply with regulatory requirements, accordingly his company (independent contractors) will be undertaking extra reviews and support around the process.</p> <p>6.6 On Going Monitoring: (i) Water (ii) Air (iii) Noise (iv) Blasting; and (v) Transport. <i>Results are available on the website.</i></p> <p>6.7 Lower Level Management Plans in place.</p> <p>6.8 Ongoing Rehabilitation and Weeding Program – ongoing.</p> <p>6.9 Extraction – In 2019 approx 511,204t was extracted of which approx. 35,000t was overburden material.</p> <p>6.10 Rehabilitation – During 2019 a total of 0.84Ha of seed mix and 1,090 plants were planted to the southern portion of the quarry on top of capped silt cells. (List of plants contained in presentation.)</p> <p>2019 Activities</p> <table><tr><th></th><th>YTD March 2020</th><th>LYTD March 2019</th></tr><tr><td>Sales (kt)</td><td>100.9</td><td>149.1</td></tr><tr><td>Production (kt)</td><td>973</td><td>162</td></tr><tr><td>Truck Movements</td><td></td><td></td></tr></table>		YTD March 2020	LYTD March 2019	Sales (kt)	100.9	149.1	Production (kt)	973	162	Truck Movements			
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ITEM			ACTION
East through Teralba	1622	1745	
West – Rhondda Rd	2829	2863	
TOTAL	4451	4608	
# The figures are down due to the COVID-19 situation. Whilst the quarry is still operating normally, sales have declined. RM asked whether Metromix were stocking piling with MY advising that stockpiles are on hand, so product may be supplied if required.			
2019 Annual Environmental Review – was submitted to DPIE on 30/3/20. Awaiting a response from DPIE prior to uploading to the Metromix website.			
EPA 536 Variation – Metromix requested a variation on 15/1/19 to have the noise monitoring frequency reduced from twice to once per year. This variation was granted on 20/4/20.			
Photographs were shown of the 2015, 2017, 2018, 2019 and 2020 rehabilitation works on site and its progress/comparison between 2018 and 2020.			
<div><div>➤</div>Surface Area: 11,300m²</div> <div><div>➤</div>What was planted: 1.3Ha of seed mix and 1,634 plants. (See presentation for species.)</div>			
Electrical Upgrade			
MY advised that Metromix will be:			
<div><div>○</div>Upgrading the existing Plant Motor Control Centre architecture and installing a new PLC system in the control tower.</div> <div><div>○</div>Installing remote switching and field full current lockout devices.</div> <div><div>○</div>Installing a second hydraulic pump and connections for the Pug Mill.</div>			
A detailed timeline was provided, projecting that the works should be completed by 22 August 2020, which includes a 9 day shutdown in order to get the motor control centre in. This item is coming from China, so there may be delays due to having to clear customs.			
The reason for the work is to carry out powerline relocation. Two sets of power lines are owned by Ausgrid and traverse the Teralba Quarry Southern Extension area.			
<div><div>○</div>The scope of the project requires clearance of vegetation to create 20m easements for the proposed power lines. The construction works require the removal of 26 poles, replacement of 17 existing power poles and the installation of 49 new power poles.</div> <div><div>○</div>This is a big project to access the Southern Extension Areas, which will provide approximately 14.8 years of useful life (based on an annual extraction of 678.4kt).</div> <div><div>○</div>The cost of the project will be approximately \$2.3M and is planned to be completed by the end of July 2020.</div>			

ITEM	ACTION
<p>7.0 General Business</p> <ul style="list-style-type: none"> ○ WH commented that it has been a very busy time on site. MY announced that he had also welcomed a baby daughter into the family, so things had indeed been very busy. ○ CW (through MY via telephone) requested that the presentation be sent through to him. 	<p>MMH to email to CW.</p>
<p>8.0 Next Meeting</p> <p>MMH sought advice from CCC members on the date for the next meeting. As agreed, the CCC is held annually, accordingly, it was decided to keep the date in May – Wednesday 5 May 2021. Discussions ensued about undertaking a site inspection, with MMH confirming that DPIE encouraged this. Therefore, the meeting will commence at 3pm with the site inspection of the Teralba Quarry, followed by the CCC meeting.</p>	<p>Agreed.</p>

Meeting closed at 4.56pm

MMH thanked all members for their participation in the teleconference and to keep safe and well during these extraordinary times.

Action Items – Nil.