

# CEMEX MT.SHAMROCK QUARRY ENVIRONMENT REVIEW COMMITTEE

## Meeting Summary

23<sup>rd</sup> October 2008 (4.10pm – 6.00pm)

Cemex Quarry,  
Mt. Shamrock Rd, Pakenham

|                                   |  |  |
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| <b>Committee Members Present:</b> | Nathan Thomas  | Cemex  |
|                                   | Adam MacKenzie   |  |
|                                   | Aaron Price  |  |
|                                   | Ian Stevenson  | Shire of Cardinia                            |
| <b>Apologies:</b>                 | Ian McLeod   | Department of Primary Industries             |
|                                   | Don Petty  | Local Community Representative               |
|                                   | Joy Carberry   |  |
|                                   | Damien Vardy   | Cemex  |
|                                   | Councillor Bill Pearson  | Shire of Cardinia                            |
|                                   | David Grace  | Dept. Sustainability and Environment         |
|                                   | Terry Flynn  | Southern Rural Water                         |
|                                   | George Tsivoulidis   | Environment Protection Authority             |
|                                   | Elsa Rohrlach  |  |
|                                   | Mark D'Agostino  | Department of Human Services                 |
|                                   | Robert Ogden (for Stephen Compton)                             | Bunurong Aboriginal Land Council Corporation |
| Fay Stewart-Muir                  | Boon wurrung Foundation  |  |
| Megan Goulding                    | Wurundjeri Tribe Land & Compensation Cultural Heritage Council |  |
| <b>Chairperson</b>                | Lisa Barrand (Chairperson)                                     | Possibilities Pty Ltd                        |

| Description  | Actions |
|--|---------|
| <p><b>Welcome and apologies</b></p> <p>Lisa welcomed all Committee members to the meeting and apologies were noted.</p>  |         |
| <p><b>Site Update - Operations</b></p> <p>Nathan Thomas informed the Committee that since the last meeting:</p> <ul style="list-style-type: none"> <li>- The stripping program had been concluded with over 600,000 m3 of material being moved, all without any safety or environmental incidents being recorded.</li> <li>- Cemex has put forward a proposal to the Council, (and now VicRoads as the responsible authority), for improving visibility at the end of Mt.Shamrock Road. This proposal would possibly include line marking and also lowering the speed to 80km. The ERC will be kept informed as to progress.</li> <li>- A new access ramp has been installed within the quarry that now connects the two internal pits. This eliminates the need for double loading, thereby greatly improving both time and fuel efficiency.</li> <li>- General production has been limited in recent months in order to reduce stockpiles.</li> <li>- A lot of work has been undertaken on housekeeping including the removal of 60 tonnes of derelict machinery and tyres from the site.</li> </ul> |         |

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| <p><b>Truck noise</b></p> <p>- A recent in investigation involving officers from the transport management department has identified that two particular vehicles (trucks) are above the national standard for noise, mainly due to their exhaust brakes.</p> <p><i>Action 4.1 Cemex is currently in discussion with the relevant contractors aimed at developing an agreed noise standard and will report back at the Feb 09 meeting</i></p>  | <p>N. Thomas</p>   |
| <p><b>Update on actions agreed at previous meetings</b></p>   |  |
| <p><b>Groundwater Beneficial Use Assessment</b></p>   |  |
| <p><i>Action 2.5 Cemex to clarify the intent and resulting actions listed on page 31 of the EMP as the wording is unclear to the Committee.</i></p>   |  |
| <p>Note: This item is carried forward to the February meeting as Elsa and Adam are yet to meet – URS should also be involved as the specialist contractor.</p>  | <p>E Rohrlach,<br/>A MacKenzie</p>                                 |
| <p><b>Commitment to supply water</b></p>  |  |
| <p><i>Action 2.6 It was agreed that Don Petty would provide Adam MacKenzie with copies of any past communications regarding Cemex commitments to maintain water supply to Don's dams and that Adam would consider what future commitments the company could make.</i></p>   |  |
| <p>Note: Don provided two emails for Adam to review in relation to the above item. Parties to report back at the Feb 09 meeting.</p>  | <p>D Petty,<br/>A MacKenzie</p>                                    |
| <p><b>Net Gain Management</b></p>   |  |
| <p><i>Action 2.7 The process of determining which species are to be planted is to be confirmed. During the July meeting it was additionally agreed that a subgroup review the documents with a view to offering suggestions for improvement. This will be presented at the October 08 meeting</i></p>   |  |
| <p>Note: This subgroup has met on site. The subgroup recommended that when the EMP is next reviewed, the objectives of visual amenity, thickening up the plantings and increasing biodiversity should be discussed for inclusion. (This has been added to the running list of items at the end of this meeting summary.) The group also noted that there were different objectives for each of the planting areas.</p> <p>In relation to rehabilitation areas, Cemex reported that internal staff are being used for general maintenance work within the plantings including the removal of stakes and guards and that specialist contractors continue to be used for skilled work. This includes areas beyond the current permit requirements such as the plantings from the original overburden site established in the 1970's.</p> |  |
| <p><i>Action 4.2 The Net Gain Sub group will meet after the annual Net Gain audit takes place in the new year in order to better evaluate possible improvements, noting that the plan, as it is written, is quite prescriptive.</i></p>   | <p>A Price, I<br/>Stevenson, Joy<br/>Carberry, David<br/>Grace</p> |
| <p><b>Weed management</b></p>   |  |
| <p>The Net Gain Management subgroup also reported on the efforts that had been made in relation to weed management and Cemex was commended for its work on weed removal along the Donnazan's driveway. It was noted by all present that there was a need for a broader, more comprehensive and integrated weed management approach that extended beyond the Cemex boundaries to include other landholders, volunteer groups and other authorities.</p>  |  |
| <p><i>Action 4.3 Ian Stevenson to coordinate action between Cemex, the Council, volunteer groups (such as Landcare and others) to make the most of this seasons weed management efforts. This should include DSE involvement.</i></p>   |  |
|   | <p>I Stevenson</p>   |

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| <p><b>Website</b></p> <p><i>Action 3.1 All members are requested to look at the current webpage for the Mt. Shamrock ERC and to forward any suggestions directly to Lisa Barrand.</i></p> <p>Note: No suggestions for change were made. It was agreed that it was acceptable for the ERC web pages to remain on the www.AllPossibilities.com.au website for the time being however the ERC should, in the longer term, either have it's own website or be located on the Cemex website.</p> <p><b>Meeting summaries</b></p> <p><i>Action 3.2 All members are requested to review the draft meeting summary when it is distributed and to advise Lisa Barrand of any omissions or errors within 7 days so that amendments can be made.</i></p> <p><b>Water discharge and salt levels (TDS)</b></p> <p><i>Action 3.3 Cemex to undertake discussions with the EPA to review the salt (TDS) tolerances on discharge water and discuss the impact of not having sufficient environmental flows downstream of Donnazan's Dam.</i></p> <p>Note: This item is carried forward as Adam and Elsa have not yet met to discuss.</p> <p><b>Interim Archaeological report</b></p> <p><i>Action 2.8 The ERC requested that ongoing progress reports be provided to the ERC from the Cemex consultant – Biosis. These reports are requested to be more detailed than the one page summary provided (Attachment One). It was also requested that the final report be produced as quickly as possible.</i></p> <p>Note: Adam reported that Jenny Fiddians was unable to attend the meeting and that the report was still some time away – possibly in the New Year. The Committee expressed its concern for this delay noting that the EMP specified the report to have been completed within 4 weeks from the completion of excavations. It was also noted that interim reports and information from the archaeologist had specifically been requested by the ERC as a way of increasing the degree of transparency for all stakeholders in the process.</p> <p>It is most strongly requested that the report be completed at the earliest opportunity and that the archaeologist be present at the Feb 09 meeting to present and discuss the report.</p> | <p>Completed</p> <p>Completed</p> <p>A MacKenzie, E Rohrlach</p> <p>A MacKenzie</p> |
| <p><b>Actions arising</b></p> <p>Nil</p>   |   |
| <p><b>Environment Management report</b></p> <p>Aaron Price presented the Cemex quarterly environmental monitoring report covering the period from the 14/08/2008 – 14/10/2008.</p> <p>The following points capture the key discussions and specific actions agreed:</p> <p><b>Dust monitoring equipment</b></p> <p>Cemex has received the dust monitoring equipment however the monitors are not yet operational due to a lack of installation information being provided from the supplier and also the delayed delivery of the necessary computer equipment from Cemex. It is hoped that the monitors will be installed and operational within the next three months. Cemex also reported that each monitor will be protected by chain mesh fencing topped with barbed wire to prevent interference. Once installed, the monitoring program will take place for a full 12 month period.</p>  |   |

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| <p><b>Location of A5 dust monitor</b></p> <p>The ERC discussed the appropriate location for this monitor. According to the EMP requirements, all other locations for dust monitors are on (or close to) the boundary of the Cemex property. As it is the intention of the monitoring process to determine the amount of dust that is being blown ‘off’ the Cemex property, it is proposed that this monitor be located closer to the boundary than is currently represented in the EMP.</p> <p><i>Action 4.4: Cemex to meet with the EPA and the Cemex consultant to determine where the A5 monitor should best be located.</i></p> <p><b>Ground vibration results</b></p> <p>All results were in compliance with EMP requirements. One result appeared particularly low. This was because the monitoring equipment failed to record a baseline reading necessary to then determine the ground vibration from the blast.</p> <p><b>Location of V3 (ground vibration)</b></p> <p>It was agreed that the location of V3 should be relocated to Don Petty’s house for more useful results.</p> <p><i>Action 4.5: Location of V3 to be moved to Don Petty’s house.</i></p> <p><b>Noise monitoring – additional monitoring</b></p> <p>Nathan Thomas reported that a program of additional voluntary noise monitoring at locations outside of the quarry had been undertaken (see Appendix A) and that all results were well under the limits prescribed. It was suggested that the company add comments regarding background noise (for the benefit of the reader).</p> <p><i>Action 4.6: Community Reps to provide the details of two residents who would be amenable to occasional noise monitoring taking place at their properties.</i></p> | <p>A Price</p> <p>A Price</p> <p>J Carberry, D Petty</p> |                          |
| <p><b>Other business</b></p> <p><b>Mt. Shamrock turning lane</b></p> <p><i>Nathan submitted a progress report regarding the development of a turning lane (and possibly a deceleration lane) at the entrance to Mt. Shamrock Road from Pakenham Road. (See Appendix B). This is required as part of the EMP. As a part of the planning process, local residents will need to be consulted. Once prepared, Cemex will present the draft design to the ERC.</i></p> <p><b>Use of Quarry water by CFA</b></p> <p>Nathan reported that Cemex would be happy for the local CFA trucks (Upper Pakenham, Toomuc Valley and Upper Beaconsfield to fill their trucks for fighting fires using the excess quarry water. The committee agreed this was an excellent idea with community benefit.</p> <p><i>Action 4.7: Don Petty to provide Nathan with contacts for the local CFA’s and Nathan to advise the EPA.</i></p>  |  | <p>D Petty, N Thomas</p> |
| <p><b>Complaints</b></p> <p>There were no complaints noted for the period however one resident made a comment that one blast appeared to be larger than usual.</p>   |  |                          |
| <p><b>Next meeting</b></p> <p>The next meeting of the ERC will be held on Thursday 19<sup>th</sup> February, 2009 4-6pm at the Cemex quarry, Mt. Shamrock Road, Pakenham.</p>  |  |                          |

## Suggestions for the next review of EMP

**Note: The ERC agreed to maintain a list of possible review points for discussion for when the EMP is reviewed (every five years)**

- **Revegetation plan**

Review the species mix of revegetation and planting patterns with a view to increasing habitat and biodiversity value (in addition to the existing visual barrier objectives) and also investigate the carbon offset value of such works.

- **Ground vibration**

Review blast monitoring locations to reflect that V3 has been moved to D Petty's house.

## Appendix A

# Noise Assessment of Locations Surrounding Mt Shamrock Quarry

Compiled by Aaron Price for the Mt Shamrock Environment Review Committee.

Due to the concerns of local community residents on the ERC, CEMEX conducted additional noise monitoring in the areas surrounding Mt Shamrock Quarry. The particular concerns related to noise propagation to residences at a similar or higher reference level (RL) than the quarry rim.

Noise monitoring was conducted using a handheld Rion NL-22 Sound Level Meter. The meter was tested against a known noise source before and after each testing period with the maximum discrepancy observed being 0.3 dB. This is within the 1dB allowable difference as per AS 1055.1 "Acoustics – Description and Measurement of Environmental Noise" Part 1 - General Procedures.

RL was calculated using a handheld GPS device. Positions where monitoring occurred have been identified by both street number/name and GPS coordinates. RL within the quarry operational area varies, however the range is as follows  $RL_{min} = 141m$  and  $RL_{max} = 185m$

**30 September 2008**

| Loc Number | Street Address       | RL   | dB(A) $L_{eq}$ |
|------------|----------------------|------|----------------|
| 1          | 37 Lilliput Lane     | 112m | 36.2           |
| 2          | 36 Shelton Road      | 185m | 31.6           |
| 3          | Bergland Road        | 127m | 33.5           |
| 4          | Top of Bergland Road | 217m | 31.9           |
| 5          | 464 Leppits Road     | 214m | 33.6           |
| 6          | 50 Hein Road         | 128m | 31.4           |

**16 October 2008**

| Loc Number | Street Address       | RL   | dB(A) $L_{eq}$ |
|------------|----------------------|------|----------------|
| 1          | 37 Lilliput Lane     | 112m | 37.1           |
| 2          | 36 Shelton Road      | 185m | 35.0           |
| 3          | Bergland Road        | 127m | 33.0           |
| 4          | Top of Bergland Road | 217m | 35.0           |
| 5          | 464 Leppits Road     | 214m | 37.0           |
| 6          | 50 Hein Road         | 128m | 34.0           |

Table 1.1: Monitoring result

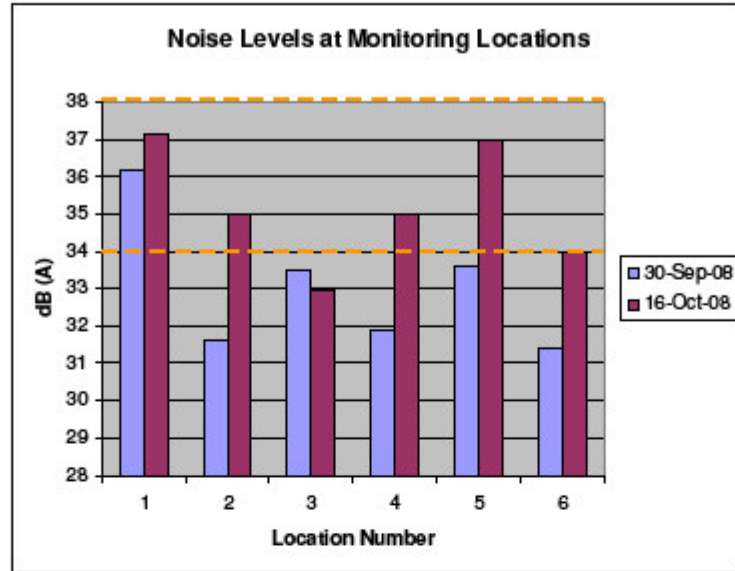


Figure 1.2: Graph of noise monitoring results

These results show the noise levels as measured fall within the background levels quantified as 34 – 38 dB(A)<sup>1</sup>. The sites at which monitoring was conducted were identified as suitable by CEMEX personnel due to their elevation (RL) and relative proximity to the operational area of the quarry.

<sup>1</sup> Burton, 2005

## Attachment B

### PROGRESS REPORT – MT SHAMROCK ROAD TURNING LANE

As part of ongoing compliance with the Mt Shamrock Quarry Environmental Management Plan, a left hand turning lane is required to be constructed from Pakenham Road into Mt Shamrock Road. This lane construction will alleviate traffic disruption to through flow on Pakenham Road. This turning lane will also improve the safety of the road for both public road users and heavy haulage vehicle drivers by reducing the speed at which heavy vehicles turn into Mt Shamrock Road.

The turning lane is required to be completed by June 29<sup>th</sup>, 2009.

Progress made in respect of the turning lane is as follows;

- Preliminary quotes for design and construction obtained from three (3) separate vendors.
- Decision to obtain preliminary designs to enable more accurate quotes for project.
- Preliminary design stage awarded to Cut & Fill Pty Ltd (awaiting approval).
- The preliminary design stage includes;
  - Survey
  - Detailed design of works
  - Road safety audit of detailed design
  - Planning Permit application
  - Vicroads consent to undertake works within the road reserve
  - Vicroads design approval
  - Employment of Environmental consultant to establish requirements for offset planting or tree protection

Subject to approval timing the project is on track to meet the completion date criteria.